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A CUMULATIVE INDEX

TO THE 1964 ISSUES OF A CONTINUING BIBLIOGRAPHY ON

AEROSPACE MEDICINE AND BIOLOGY

FEBRUARY 1965

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A CUMULATIVE INDEX TO A CONTINUING BIBLIOGRAPHY ON

AEROSPACE MEDICINE AND BIOLOGY

This Cumulative Index supersedes the seven separate indexes to the original issue (SP-7011) and six supplements [SP-7011 (01) through SP-7011 (06)] of a continuing bibliography published by NASA during 1964



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1. The "see" relates a broad concept, i.e., one which is too general to be a useful index term, to the specific terms used in the index. For example:

CELL

- S BIOLOGICAL CELL
- S RED BLOOD CELL
- S WHITE BLOOD CELL
- 2. The "see also" cross-reference directs a searcher from general to specific terms when postings under the latter are not repeated under a general heading. For example, the entry

MICROORGANISM

SA BACTERIA

tells a searcher that the postings under MICROORGANISM are different from those under BACTERIA. "See also" thus signals the absence of double posting.

3. The "confer" cross-reference is used to relate associated concepts usually having different groups of postings. For example:

DISEASE

CF SICKNESS

tells a searcher that, while these terms are related in subject matter, postings under each term are different.

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(continued)

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Other organizations can purchase copies of the bibliography from the Office of Technical Services, U.S. Department of Commerce.

TABLE OF CONTENTS

	I	Page
Subject Index		A - 1
Corporate Source Index		B - 1
Personal Author Index		C - 1

Subject Index

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography FEBRUARY, 1965 Issues SP-7011 through SP-7011 (06)

Listing of Subject Headings of Reports

A Notation of Content, rather than the title of the document, appears under each subject heading; it is listed under several headings to provide multiple access to the subject content. The accession number is located beneath and to the right of the Notation of Content, e.g., N64-12345. Under any one subject heading, the accession numbers are arranged in sequence.

ABCCKEN

CF DIGESTIVE SYSTEM
CF INTESTINE
CF STCPACH
CF STCPACH
PEFLEX CCNTROL CF ARDOMINAL MUSCLES DURING
POSITIVE PRESSURE BREATHING
A A64-80310

ABCCMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING CREANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION

A64-80824

THERACIC AND ABCOMINAL MASS LOADING EFFECT ON VELUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, CRESE AND NORMAL SUBJECTS

A64-80997

ABECMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VELUMES N64-1/9/7

ARTEGENESIS

CF BICEENESIS
PCSSIBILITY OF LIFE ORIGINATING IN SPACE BASED ON STUDY OF ENVIRONMENTAL CONDITIONS WHICH LED TO LIFE ON EARTH

BICGENIC AND ABIOGENIC EVIDENCE OF CRIGIN OF OIL AND LIFE A64-80371

CHEMICAL CRIGINS OF LIFE ON EARTH AND OTHER A64-80529

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC CREANIC MATTER IN METEORITES AND SEDIMENTS A64-80592

NEKENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIOGENESIS OF NEURINES, PYRIMIDINES, PENTOSPIECSE AND DEOXYRIBOSE N64-29699

CF RACIATION ABSORPTION DEGREE OF ABSORPTION OF IGNIZED AIR IN UPPER RESPIRATORY TRACT OF MAMMAL AND BIRD

464-80895

PERCENTAGE CARRON MONOXIDE ABSORPTION AND RELATION TO PULMCHARY DIFFUSING CAPACITY

ABSCRPTICN OF INERT GASES FROM SUBCUTANEOUS GAS

PCCKETS IN RATS DURING RESPIRATION

N64-17947

CALCULATION OF ABSORPTICN RATE OF ELECTRONS IN ATCMIC CUTER ENERGY LEVELS JPRS-24099

RUBICIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY

EXPCNENTIAL MCDEL FOR DETERMINING ABSORBED DOSAGE OF RADICISCTOPE IN HUMAN BODY FTD-TT-63-923/162 N64-32662

ABSORPTION SPECTRUM

ULTRAVICLET ABSCRPTION SPECTRA OF STERGID AND CATECHOLE DERIVATIVES N64-14971

ARL-TDR-63-29

ABSTRACTS CF BIBLICGRAPHY ABSTRACTS OF CURRENT MEDICAL RESEARCH

N64-10621

ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BICLOGICAL AND FEDICAL RESEARCH TID-4201

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR. PHYSIOLEGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-33513

S ALTERNATING CURRENT /AC/

ACCELERATION

SA ANGULAR ACCELERATION

SA IMPACT ACCELERATION SA PHYSIOLOGICAL ACCELERATION

CF DECELERATION

ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS A64-13750

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON OTOLITH ORGANS OF RABBITS LYING IN LATERAL POSITION ON PARALLEL SWING A64-80244

VESTIBULAR CORIOLIS EFFECT DURING ADDITIONAL LINEAR ACCELERATION A64-80250

OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

TRANSIENT ACCELERATION, VIBRATION, AND NOISE PROBLEMS IN SPACE FLIGHT - A REVIEW

PERCEPTION IN HUMAN OF RHYTHMICALLY REPEATED LINEAR MOTION IN VERTICAL PLANE AT DIFFERENT FREQUENCIES AND EFFECT OF VESTIBULAR APPARATUS A64-81230

SPATIAL ORIENTATION WITHIN ROTATING ROOM AS DETERMINED ON TILTING CHAIR AND ROD-AND-FRAME A64-81329

THRESHOLD OF VISUAL DETECTION OF ACCELERATED

#CTICN AFCSR-64-0189

N64-21381

EFFECT OF CORIGLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE **DEFECTIVE SUBJECTS** NASA-CR-58675 N64-28876

ACCELERATION PROTECTION

CF PRESSURIZED SUIT
ACCELERATION EFFECTS AND SOME PROTECTIVE METHODS

ACCELERATION STRESS CF AUTCKINESIS CF G FCRCE CF PHYSICLOGICAL ACCELERATION HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA

ACCELERATION STRESS ON HUMAN BEHAVIOR AND PHYSICLOGY, NOTING PSYCHOMOTOR PERFORMANCE, MENTAL ABILITIES AND EMOTIONAL RESPONSE

A64-12980

B-58 ESCAPE CAPSULE FLIGHT TEST OF EIGHT EJECTIONS AT SUBSCNIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION A64-13510

HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION A64-13518

ACCELERATION FORCES CAUSING DISRUPTION OF TIMING BEHAVIOR IN WHITE RAT A64-137 A64-13748

HUPAN TRACKING PERFORMANCE UNDER TRANSVERSE 464-14013 **ACCELERATION**

BICLOGICAL EFFECT OF WEIGHTLESSNESS AND ACCELERATION EXPERIENCED IN SPACE FLIGHT

464-18743

CRTHOSTATIC INTOLERANCE, WITH ASSESSMENT OF CIRCULATORY PROBLEM OF WEIGHTLESSNESS IN PROLONGED SPACE FLIGHT 464-19130

ELECTRCCARDIOGRAMS AND PLETHYSMCGRAPHS USED TO STUDY BICLOGICAL EFFECTS OF CORIOLIS ACCELERATION 464-19171

RACIAL ACCELERATION EFFECT ON POSITION SENSE, CONSIDERING PSYCHIC FUNCTIONS AND OCULOGRAVIC A64-22063 PHENOMENON

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS WITH REGARD TO THEIR DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT A64-22819 CONTROL

ASSESSING HUMAN RESPONSE TO IMPACT ACCELERATION, CONSIDERING PROTECTION AGAINST MECHANICAL EFFECTS A64-232C7

EFFECTS OF ACCELERATION ENVIRONMENT ON ASTRONAUT PHYSICLOGICAL AND PERFORMANCE CAPABILITIES A64-23213

CARDIAC RESPONSES OF GUINEA PIGS AND RABBITS TO HIGH CXYGEN EXPOSURE UNDER PRESSURE AND STRESS A64-23767 LOADINGS

INCREASED AND DECREASED GRAVITY EFFECTS ON RATS SUBJECTED TO PROLONGED CENTRIFUGATION A64-24163

CENTRIFUGES USED TO TEST ACCELERATION VARIABLES

AND FEFECTS ON HUMAN ORGAN SYSTEMS A64-24393

REVIEW CF HUMAN TOLERANCE TO FORCED ENVIRONMENTS CF SPACE FLIGHT, INCLUDING EFFECTS OF PROLONGED AND TRANSIENT ACCELERATIONS, VIBRATIONS AND NOISE

IN FLIGHT ACCELERATION CONSIDERING APPLIED AND INERTIAL FORCES, HUMAN TOLERANCE, VIBRATION AND

IMPACT

A64-24617

WEIGHTLESSNESS AND SUBGRAVITY EFFECT ON PHYSIOLOGICAL SYSTEMS PARTICULARLY MUSCULO-SKELETAL, CARDIOVASCULAR AND EQUILIBRIUM SENSES A64-24618

HEMATOLOGY AND BICCHEMICAL STRESS EFFECTS OF CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT A64-25547

INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION STRESS IN VENTRODCRSAL DIRECTION AND RELATION TO VASCULAR AND PARENCHYMAL ELEMENTS

STIMULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE ACCELERATIONS

SENSITIVITY AND REACTION CAPABILITY OF CRANIOCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF BODY POSITION

CENTRIFUGE TESTS EXAMINING ENHANCEMENT OF EVOKED RESPONSES DURING POSITIVE ACCELERATION AND CEREBRAL HYPOTENSION

OCCURRENCE OF CROSSING OVER IN CHROMOSOMES OF MALE DROSOPHILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION A64-26813

VISUAL FIELD LOSS PATTERN DURING POSITIVE ACCELERATION DEMONSTRATED AND REFINED WITH PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER A64-27604

PHYSIDLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS

A64-284 A64-28458

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO A64-80031

BRAIN DXYGEN TENSION IN DOGS DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION A64-80043

PSYCHOLOGICAL CORRELATES OF BIODYNAMIC STRESS -DESCRIPTION OF SIX MEN SUSTAINING OVER 500 ACCUMULATED G A64-80095

ACCELERATION EFFECTS AND SOME PROTECTIVE METHODS A64-80104

HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY A64-80115

PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION A64-801 A64-80116

PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDIOVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS

ACCELERATION TOLERANCE, ACCELERATION PROTECTION, AND EFFECTS OF ACCELERATION ON VISION AND

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES A64-80147

PHYSIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-80156

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION A64-80174 ENTCPIC VISUAL PHENCMENA /PHOSPHENE/ PRODUCED BY ACCELERATION STRESS A64-80178

ELECTROMYCGRAM OF CIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE CURING TRANSVERSE ACCELERATION

A64-8027

HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL RESPONSES CURING AND AFTER FLIGHT

A64-80333

SENSORY-PHYSICLOGICAL PROBLEMS IN SPACE FLIGHT ARISING FROM STIMULATION OF VESTIBULAR APPARATUS A64-80351

ERAIN CXYGEN TENSION IN DCG DURING POSITIVE, RECATIVE, AND TRANSVERSE ACCELERATION

A64-80359

PHYSICLOGICAL AND PSYCHOLOGICAL ASPECTS OF ACCELERATION STRESS IN SPACEFLIGHT - A REVIEW A64-80477

VERTERRAL FRACTURES AS RELATED TO EJECTION SEAT DESIGN, POSTURE, AND EJECTION FORCES A64-80501

EJECTICN SEAT ACCELERATIONS AND INJURIES OF VERTEBRAL COLUMN A64-805C4

EICMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MENITERING PERFORMANCE DURING CENTRIFUGE SIMULATION CF SPACE FLIGHT A64-80554

GRAVITATIONAL STRESS AND PERCEPTION OF POSITION IN SPACE A64-80635

GREWITH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY

A64-80684

CARBCHYCRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABCRATICN OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPCSED TO CHANGES IN GRAVITY A64-B0R15

FCRWARD ACCELERATION EFFECT ON BLOOD CXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT DXYGEN A64-80817

EFFECT OF PROLONGED ACCELERATION ON EATING, BCCY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

VESTIBULAR AND CARCIDVASCULAR RESPONSES TO BEIGHTLESSNESS AND ADAPTATION TO INCREASED GFORCES AS RELATED TO PULSE, BLOOD PRESSURE, RESPIRATION, AND ELECTROCARDIDGRAM

A64-80845

CISTUREANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-80859

IDENTIFICATION OF VARIABLES IN REPORTING
PHYSICLOGICAL EFFECTS OF ACCELERATION STRESS
A64-80867

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS
A64-80896

CECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED CENTRIFUGATION A64-80914

LEUKCCYTE, CORTICOSTEROID, AND CATECHOLAMINE
RESPONSE TO CORIOLIS ACCELERATION DURING
ZERC-GRAVITY PARABOLIC FLIGHT
A64-80921

ROLE CF CTOLITHS IN DISORIENTATION DURING AND AFTER WEIGHTLESSNESS AND CHANGES IN LINEAR ACCELERATION A64-80924

RAPID ACCELERATION EFFECT ON SYMPATHICOTONIC CHARACTER OF ELECTROCARDIOGRAM IN PILOTS EJECTEC FROM CATAPULTS A64-80929

ADRENALECTOMY EFFECT IN RAT ADAPTED TO HYPOXIA ON RADIAL ACCELERATION TOLERANCE A64-80932

AMPLITUDE, FREQUENCY AND CURATION OF NYSTAGMUS IN RESPONSE TO ANGULAR ACCELERATION RELATED TO VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY A64-80986

CCRTICAL EXCITABILITY CHANGES IN CAT DURING PCSITIVE ACCELERATION AND BLOOD VOLUME REDUCTION A64-80988

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX
STIMULATION BY RADIAL ACCELERATION

A64-B0999

STATISTICAL ANALYSIS OF VERTEBRAE BREAKING STRENGTH AND ENDPLATE FRACTURES RELATED TO ACCELERATION STRESS A64-81006

FUNCTIONAL STATE CF ORGAN OF EQUILIBRIUM IN WHITE MOUSE GROWN WITH CAILY EXPOSURE TO ACCELERATION

A64-81023

THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT RACIAL ACCELERATION IN PIGEON A64-81024

GRACIENT LOAD EFFECT ON HUMAN DUE TO ACCELERATION STRESS DURING FLIGHT

A64-81059

PATHOLOGICAL EFFECT OF ACCELERATION, ICNIZING RADIATION, AND WEIGHTLESSNESS DURING MANNED SPACE FLIGHT A64-81097

ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED BY COMPLEMENTARY CORICLIS ACCELERATION

A64-81120

ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION STRESS TOLERANCE A64-81264

ICN MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

REACTIONS TO ACCELERATION JPRS-21908

N64-10383

STRESS ON HUMAN BODY BY ACCELERATION AND WEIGHTLESSNESS
JPRS-20345 N64-11137

PHYSIOLOGY OF DCG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION N64-11699

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN

REQUIREMENTS DURING ACCELERATION N64-11808

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD ACCELERATIONS N64-11852

EFFECT OF ACCELERATION STRESS & MEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF COGS IN BALLISTIC ROCKET FLIGHTS N64-11860

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-13454

HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION N64-13455

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS
AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS
N64-13457

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMCOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459

HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460

RESPIRATERY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG CURATION - ANATOMICAL STUDY OF DOG KIDNEY N64-13462

CARDICVASCULAR RESPONSE IN MAN DURING FORWARD
ACCELERATION N64-13463

INCREASED HOST RESISTANCE TO ACCELERATION STRESS - DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULO-ENDOTHELIAL STIMULATION N64-13464

CENTRIFUCES FOR STUCYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION TECH. REPT.-115-2 N64-14779

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL
BEHAVICR
NADC-MA-6305
N64-15753

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL CXYGEN CONCENTRATION AMRI-TDR-63-104 N64-16806

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE
UNDER CONDITIONS OF ACCELERATION STRESS
FTC-MT-63-20/1 N64-18665

ELECTRCENCEPHALOGRAPHIC CHANGES IN HUMANS DURING
BLACKGUTS INDUCED BY ACCELERATION
NADC-M1-6402
N64-20450

PHYSICLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS FTC-TT-63-1095/182 N64-21941

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND DECELERATION FORCES N64-22075

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN
TENSION IN BRAIN TISSUE
FID-TI-63-1215/18284 N64-22665

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

BICLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN CROER CF MAGNITUDE OF MICRO-G
NASA-CR-51180 N64-22776

EXPERIMENTAL BICLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS FTC-TT-62-1164/16284 N64-23454

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEICHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTREMYOGRAMS UNDER ACCELERATION STRESSES FIC-TI-63-1052/162 N64-23659

ELECTROMYOGRAM MEASUREMENT OF BIDELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS N64-23661

PHYSICLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION N64-23697

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL CREANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764 LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY
DURING LONGITUDINAL G-LOADS N64-23770

EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE NASA-TN-D-2067 N64-24815

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE
MCTION
FPRC-1207
N64-25847

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED
TO GRAVITATIONAL ACCELERATION
NASA-TI-F-197
N64-26782

THRESHOLD OF ACCELERATION SENSATION IN MAN
JPRS-25929 N64-26880

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
NSA-TT-F-9025
N64-27138

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL
SYSTEM OF NERVES AT EXTREMITIES
JPRS-25275 N64-27501

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AERCSPACE MEDICINE, AND CHEMOTHERAPY JPRS-26116 N64-28432

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS N64-288

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONCITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/182 N64-29278

ACCELERATION TOLERANCE
ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS
A64-1375

BICELECTRIC ACTIVITY OF CEREBRAL CORTEX IN RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS OF ELECTROENCEPHALOGRAMS A64-25599

BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT SYSTEMS A64-26917

ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION

A64-27273

MANS SHORT TIME TOLERANCE TO SINUSOIDAL VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN THREE ORTHOGONAL AXES A64-27596

MECHANICAL IMPEDANCE MODEL TO DEVELOP QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION

A64-27599

HUMAN BODY RESPONSE TO ACCELERATION, VIBRATION AND IMPACT IN PRESENCE OF OTHER STIMULI

A64-28345

PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION A64-80116

ACCELERATION TOLERANCE AND PERFORMANCE AS RELATED TO SIMULATOR TRAINING OF ASTRONAUT

A64-80666

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION NASA-CR-21 N64-16534

PHCTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TCR-63-106 N64-16808

ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH AMRL-TDR-64-56 N64-33530

ı

LINEAR ACCELERATOR

S SYNCHROTRON

ACCEL EROMETER

ACCELEROMETRIC PRECORDIAL BALLISTOCARDICGRAM IN **HYPERTENSION** NASA-TT-F-198

ACCIDENT INVESTIGATION SA AUTOMOBILE ACCIDENT SAFETY, HAZARDS & ACCIDENTS NASA-CR-56623

N64-24119

ACCIDENT PREVENTION

ACCIDENT RESEARCH REVIEWED AND CRITICIZED IN AREAS OF CAUSATION AND PREVENTION A64-80459

ACCIDENT PRONENESS

ACCIDENT PRONENESS AND INDIVIDUAL VARIATION IN A64-80403

FOHN WEATHER EFFECTS ON ACCIDENT RATES

A64-80631

ACCLIMATIZATION

SA COLD ACCLIMATIZATION SA HEAT ACCLIMATIZATION CF ALTITUDE ACCLIMATIZATION CF ENVIRONMENTAL SCIENCE CF HEAT TOLERANCE CF HUMAN TOLERANCE

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

A64-80232

NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES

A64-80

ENVIRONMENTAL COLD AS RELATED TO METABOLISM RESPIRATION, CIRCULATION, BLOCC, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-80879

HIGH ALTITUDE PHYSIOLOGY IN RELATION TO ANAESTHESIA AND INHALATION THERAPY OF MOUNTAIN INHABITANT A64-80890

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION

A64-80999

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU

PHYSICLOGICAL CHANGES IN HUMAN ORGANISM DUR ING ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC A64-81103

PHYSICLOGICAL CHANGES IN HUMAN UNDERGOING ACCLIMATIZATION TO SUBARCTIC ATMOSPHERIC CONDITIONS A64-81104

ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH JPRS-21481 N64-10597 TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED EXYGEN CONTENT IN ENVIRONMENT JPRS-16105

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE AND HYPOXIA CHAMBER CONDITIONS

ACETIC ACID

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE FTD-MT-63-49 N64-18672

ACETYLATION

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION

M64-13508

ACETYLCHOLINE

ASTHMA TEST BY PNEUMOTACHEGRAPHY AFTER INHALATICN
OF ACETYLCHOLINE AND ALEUDRINE A64-8028 A64-80286

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,
TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON
VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80981

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS 464-81002

ACID

CF ACETIC ACID CF ACRYLIC ACID CF AMINO ACID
CF ASCORBIC ACID
CF ASPARTIC ACID
CF CARBONIC ACID
CF DEDXYRIBONUCLEIC ACID CF FATTY ACID CF FOLIC ACID CF FORMIC ACID
CF NUCLEIC ACID CF RIBONUCLEIC ACID
ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN

BODIES BY IONIZING RADIATION JPRS-18938

N64-11317

ACID-BASE BALANCE

CF PH FACTOR
ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

A64-80232

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-80323

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

A64-80823

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD AD-600077 N64-26550

ACOUSTIC ATTENUATION

SOUND PRESSURE LEVEL MEASUREMENT, BY MEANS OF DATA ON NOISE SOURCE AND SOUND TRANSMISSION PROPERTIES IN PISTON AND JET AIRCRAFT A64-12381

SOUNDPROOF ROOM PROVIDING MAXIMUM ATTENUATION IN SPEECH FREQUENCY RANGE A64-80610

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, DXYGEN, HELIUM AND 50-50 HELIUM-DXYGEN MIXTURES AT LOW PRESSURES SAM-TDR-64-43

ACOUSTIC FATIGUE

MODERATE POSTSTIMULATORY FATIGUE EFFECT ON EAR TUNING, USING BINAURAL PITCH MATCHING DATA A64-18000

CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN MAMMAL CAUSED BY INTENSE ACOUSTIC STIMULATION A64-81079

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN
HEARING PURE TONES
CARI-63-19 N64-14410

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY -

AD-442827 N64-32376

ACOUSTIC IMPEDANCE
ACOUSTIC REFLEX OF MIDDLE EAR UPON STEP
STIMULATION OF WHITE NOISE STUDIED BY VARIATION OF
INPUT IMPEDANCE TO HUMAN SUBJECTS

A64-23808

ACCUSTICAL IMPEDANCE PRESENTED TO EARPHONES BY HUMAN EAR IS CRITICAL DESIGN FACTOR OF ACCURATE ARTIFICIAL EAR A64-26636

ACOUSTIC SIMULATION
ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE
VARYING IN INTENSITY, DURATION, NOISE SPECTRUM,
FREQUENCY, AND NUMBER OF REPETITIONS

A64-80090

ACOUSTICS
SA PSYCHOACOUSTICS
CF NOISE
CF SOUND
HUMAN PERFORMANCE IN SOUND LEVEL IDENTIFICATION
FOR LEVELS WITH AN UNBALANCED PROBABILITY OF
OCCURRENCE
USAF ESD-TDR-62-352
A64-10959

PERCEPTUAL JUDGMENT OF LATERALIZATION OF SOUND IMAGES PRODUCED BY BINAURAL INTERACTION OF CLICKS WITH CLICKS OR CLICK PAIRS A64-21335

NOISE ANALYSIS OF MILITARY AIRCRAFT AND SEPARATE

A64-80330

ACOUSTIC SPECIFICATION OF SPEECH
AFCRL-64-263 N64-26499

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS

JPRS-261C3 N64-2843 INTERACTION OF EXCITATION & INHIBITION PROCESSES

IN ACCUSTIC ANALYZER OF DOG IN RESPONSE TO PURE
TONES

N64-31464

ACRYLIC ACID
INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON
BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND
PROPIONIC ACIDS
N64-18411

ACTH S ADRENOCORTICOTROPIN

ACTINOMYCETES
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &
DEVELOPMENT IN ACTINOMYCETES AND PLANTS
N64-11682

ACTIVATION /BIOL/
CF AROUSAL
CF CATALYTIC ACTIVITY
CF ENZYME ACTIVITY
NOISE EFFECTS ON PERFORMANCE OF INTELLIGENCE AND
CONCENTRATION TESTS
A64-80410

BRAIN BIOPOTENTIALS - ELECTROENCEPHALOGRAPHIC VARIATIONS IN RESPONSE TO RHYTHMIC PHOTIC STIMULATION A64-80469

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON
OF CAT DURING SLEEP AND WAKEFULNESS AS
DETERMINED THROUGH ELECTROENCEPHALOGRAM
A64-81067

ACTIVITY
S CATALYTIC ACTIVITY
S SOLAR ACTIVITY

ACTIVITY /BIOL/ SA ENZYME ACTIVITY CF PERIODICITY /BIOL/
ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE
BAT - ADAPTIVE ASPECTS A64-80212

ELECTRIC FIELD EFFECT ON ACTIVITY AND RADIATION STRESS IN MICE A64-80334

WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM ACTIVITY IN RAT IN VARIOUS ACTIVITY MEASURING DEVICES AT DIFFERENT ENVIRONMENTAL TEMPERATURES A64-80556

CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO CONFINED GROUPS WITH AND WITHOUT REFERENCE TO CLOCK TIME A64-80747

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL STRESS IN RATS A64-81087

ACTIVITY CYCLE /BIOL/ S PERIODICITY /BIOL/

ADAPTATION
SA DARK ADAPTION
SA DESERT ADAPTATION
SA LIGHT ADAPTATION
ACCELERATION FORCES CAUSING DISRUPTION OF TIMING
BEHAVIOR IN WHITE RAT
A64-13748

OPERATOR ADAPTATION TO SUDDEN CHANGES IN CONTROLLED ELEMENT GAIN AND POLARITY BASED ON TRACKING ERROR AND RESPONSE TIME

A64-24127

HUMAN OPERATOR ADAPTATION TO DISCRETE AND CONTINUOUS TIME VARIATIONS IN CONTROL SYSTEM A64-24841

BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MCTIVATION A64-80005

ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE BAT - ADAPTIVE ASPECTS A64-80212

ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVIOR BY CHICKEN A64-80321

MOTION PERCEPTION - ADAPTATION IN PERCEPTION OF ROTATING PATTERN A64-80357

MONAURAL ADAPTATION TO SOUND AND EFFECT OF NOISE EXPCSURE IN CONTRALATERAL EAR A64-80372

VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL ROTATION A64-80384

MIDCLEEAR MUSCLE ACOUSTIC REFLEX RESPONSE HABITUATED IN CAT A64-80385

ORGAN SYSTEM RESPONSE AND ADAPTATION TO ENVIRONMENTAL CHANGES - HANDBOOK

A64-80414

CELLULAR ADAPTATION TO UNFAVORABLE ENVIRONMENTAL FACTORS A64-80415

EFFECT OF WEATHER AND CLIMATE ON PHYSICLOGY OF MAN A64-80420

ACAPTATION OF PRIMITIVE MAN TO COLD STRESS IN VARIOUS GEOGRAPHICAL LOCATIONS A64-80425

ADAPTATION OF MAN TO HUMID HEAT IN TROPICS
A64-80428

ADAPTATION OF MAN AND MAMMALS TO ATMOSPHERIC POLLUTANTS A64-80429

ADAPTATION IN MAN DURING REPEATED EXPOSURE TO INDUSTRIAL CHEMICALS OF SIGNIFICANCE IN AEROSPACE MEDICINE A64-80430

ADAPTATION TO AND PROTECTION OF MAN FROM VARIOUS
NOISE LEVELS A64-80436

ı.

ADAPTATION TO MOTION - RELATION TO VESTIBULAR APPARATUS AND CENTRAL NERVOUS SYSTEM

A64-80437

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-80438

BOCY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTRICITY CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE

A64-B0552

RESTRICTED WATER INTAKE AS RELATED TO WATER BALANCE AND FOOD INTAKE IN RAT A64-80555

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

RECOVERY TIME AFTER EXPOSURE TO GLARE STUDIED AS FUNCTION OF DURATION, INTENSITY, AND CONTRACT
A64-80601

ADAPTATION TO SPACE FLIGHT CONDITIONS - EFFECTS AND COUNTERMEASURES TO WEIGHTLESSNESS AND OTHER PHYSICAL AND PSYCHOLOGICAL STRESSES

A64-80638

BRAIN ELCOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPCXIA IN ENVIRONMENTAL CHAMBER

A64-80759

VESTIPULAR AND CARDIOVASCULAR RESPONSES TO WEIGHTLESSNESS AND ADAPTATION TO INCREASED GFORCES AS RELATED TC PULSE, BLCOD PRESSURE, RESPIRATION, AND ELECTROCARDIOGRAM

A64-80845

PHYSICLOGICAL RESPONSES TO HIGH ENVIRONMENTAL TEMPERATURE AND HYPERTHERMIA A64-80878

PUPAN ADAPTION TO LONGTERM EXPOSURE TO OPTICAL DISTORTION PRODUCED BY WEDGE PRISM

A64-B0894

TWC ACAPTATION PROCESSES TO ACTIVE AND PASSIVE EXPOSURE TO OPTICALLY ROTATED VISUAL FIELD

A64-80933

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES
OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

AUCITCRY ADAPTATION FOR PURE TONES COMPARED AT THRESHOLD AND SUPRATHRESHOLD LEVELS FOR CLINICAL TESTING A64-80955

RELATIVE CEPTH JUDGMENT AS FUNCTION OF EYE MCVEMENT A64-80974

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /15,000 FEET/ ELEVATION IN HIMALAYAS A64-80995

BLCCC CELL CHANGE IN ATHLETES DURING EXERCISE AND SAUNA PATH AND RELATION TO ADAPTATION IN SPORTS

A64-81232

AGE FACTOR IN ADAPTATION OF HUMAN TO HYPOXIA
A64-81247

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG 464-81251

RCLE CF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO HYPCXIA A64-81258

ADAPTATION AND PHYSIOLOGICAL RESPONSE OF HUMAN CREANISM TO HYPOXIA AT HIGH ALTITUDE

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND DXYGEN UPTAKE CURING HYPOXEMIA A64-81262

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF DXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN PRESSURE CHAMBER A64-81263

ROLE OF THYROID GLAND AND SENSE ORGANS IN ACAPTATION TO HYPOXIA A64-81272

PHASES OF ADAPTATION PROCESS TO HIGH ALTITUDE
A64-81273

PHYSICLOGICAL MECHANISM OF ADAPTATION TO HIGH ALTITUDE A64-81274

INHIBITOR OF THYROID AND EFFECT ON ADAPTATION TO HIGH ALTITUDE IN DDGS A64-81280

ADAPTATION TO HIGH ALTITUDE AND EFFECT ON HEMODYNAMICS OF HUMAN IN ASCENT TO HIGHER LEVELS
A64-81283

PHYSIOLOGICAL RESPONSE AND ADAPTATION TO HYPOXIA IN MAN AND OTHER ORGANISMS A64-81286

PHYSIOLOGY OF ADAPTATION IN HUMAN TO HIGH ALTITUDE
A64-81287

INTERMANUAL TRANSFER OF ACAPTATION TO PRISMS IN HUMAN A64-81302

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN

N64-10146

NONLINEAR ADAPTATION OF FUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879 N64-19955

ADAPTATION AND ACCLIMATIZATION CF HUMAN ORGANISM TO HYPOXIA JPRS-25796 N64-28076

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION AD-603074 N64-30859

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

ADAPTIVE CONTROL

CF SELF-ADAPTIVE SYSTEM

EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS
IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS

AMRL-TDR-64-39

N64-26884

ADAPTIVE CONTROL SYSTEM

CF SELF-ADAPTIVE SYSTEM
SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME
INVARIANT CONTROL SYSTEM

A64-24833

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS FTD-TT-62-1548/16264 N64-23463

ADDITIVE S ANTIOXIDANT

ADENINE

FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION
OF ADENINE AND RIBOSE
N64-11375

ADENOSINE TRIPHOSPHATE

PHYSIOLOGICAL AND PHARMACOLOGICAL EFFECTIVENESS CF ADENOSINETRIPHOSPHORIC ACID AND COCARBOXYLASE IN TREATMENT OF PILCTS AFFLICTED WITH FLIGHT FATIGUE A64-24099

ADENOSINE TRIPHCSPHATE IN BRAIN OF RAT EXPOSED TO CHRONIC HYPERCAPNIA A64-B0100

ADRENCECRTICOTROPIN AND ADENOSINE TRIPHOSPHATE EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS

A64-80606

PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPCSURE AS RELATED TO BRAIN ADENOSINE TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS

A64-81259

A64-80814

PHCTCSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA

A64-81036

ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT

OF JET PILCT WITH FLIGHT FATIGUE

A64-81069

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE CN ADENOSINE TRIPHOSPHORIC ACID AND CREATINE N64-12572

PHOSPHATE CONTENT

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS N64-13168

NASA-RP-94

ADIPOSE TISSUE

ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN COLD EXPESURE AND HIBERNATION A64-80099

DECCMPRESSION SICKNESS IN RAT RELATED TO BODY FAT A64-80328

BOCY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND A64-80991 HORMONE TREATED HAMSTER

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN A64-81065 COLD EXPOSED RAT

NITROGEN SCLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION N64-19822 SAM-TER-64-1

ADRENAL GLAND

ADRENCCERTICAL ACTIVITY AT HIGH ALTITUDE UNDER 464-12990 STRESS CCNCITIONS

ACCELERATION FORCES CAUSING DISRUPTION OF TIMING A64-13748 BEHAVICR IN WHITE RAT

ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS A64-13750

PLASMA 17-HYDROXYCORTICOSTEROID AND ADRENAL SECRETCRY RATES OF ALDOSTERONE AND CORTISOL RELATEC TO BED REST A64-25548

TESTS ON WHITE RATS TO INVESTIGATE RADIATION PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS INFLUENCED BY BIOGEN AMINES A64 A64-27581

HYPCTHERMIA AND ASCORBIC ACID CONTENT, AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT A64-80060 CTS 62-11760/1.

CCLC EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL 464-80270

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT CN BASAL METABOLIC RATE, ADRENAL GLAND, RRCSTATE GLAND, AND WHITE BLOOD CELL

A64-80566

WHELE BEEY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICESTERCIC LEVELS A64-80636

RRCLCNGEC STARVATION EFFECT ON BLOCD PLASMA CONCENTRATION AND EXCRETION OF ADRENAL HORMONES A64-80767

INTERCCRRELATION OF EXERCISE, BGDY COMPOSITION, FCCD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY A64~80815

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE A64-80823

COLO RESPONSE OF THYROID IN HEAT-ADAPTED RAT

FOLLOWING BILATERAL LESION OF HABENULAR NUCLEI A64-80880

SECRETORY RATES OF ALDOSTERONE AND CORTISOL MEASURED BEFORE, DURING AND AFTER BED REST A64-80922

ADRENALECTOMY EFFECT IN RAT ADAPTED TO HYPOXIA ON A64-80932 RADIAL ACCELERATION TOLERANCE

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND CCOLING N64-11320 JPRS-20037

DXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION N64-12835

LABELLED THYMIDINE AND RACIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE N64-13631 AAL-TDR-63-7

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY

N64-15202

RCLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNOLOGICAL AND INFECTION PROCESSES

N64-17168

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT N64-31344 PITUITARY AND ADRENAL GLANDS

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENDCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ACRENAL GLAND

N64-31345

N64-29759

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMCREGULATION N64-33397 NASA-TT-F-9115

ADRENAL METABOLISM SEASONAL VARIATION OF ADRENAL CORTEX, LEUCOCYTES, AND REACTION TO ENVIRONMENTAL TEMPERATURE

RIBCFLAVIN, VITAMIN E, BICTIN, FOLIC ACID AND EFFECT ON ADRENAL CORTEX FUNCTION AT HIGH ALTITUDE

ADRENOCORTICOTROPIN

SYMPATHCADRENAL, ADRENDCORTICAL AND METABOLIC EFFECTS OF SHCRT DURATION HYPEROXIA

ADRENOCORTICOTROPIN AND ADENOSINE TRIPHOSPHATE EFFECTS ON HEXCKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS

ACTH INJECTION OF RATS IRRACIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES

PARCTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENCECRTICCTROPIN /ACTH/ IN YOUNG ADULT MALES N64-29286 SAM-TDR-64-37

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENGORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS

JPRS-26542

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DGSES OF ADRENCCORTICOTROPIN N64-31053 SAM-TDR-64-50

EFFECT OF STRONG STRESS AND HIGH DOSES OF

ADRENCCCRTICETROPIN HORMONE ON MORPHOPHYSIOLOGICAL RECREANIZATION OF RAT ACRENAL GLAND

N64-31345

ADVECTION CONVECTION

AERIAL PHETEGRAPHY IMAGE CUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY N64-10530

CCLCR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET CETECTION FR-63-11-287

N64-13846

AERCDYNAMICS

CE GAS CYNAMICS AERCDYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS CYNAPIC TUNNEL FACILITY AD-435787

AIRFLEW DIRECTION ON WING OF FLYING BIRD DESERVED VANE AND SILK THREAD METHOD - AERODYNAMICS JPRS-24357

AERCNAUTICS CF AVIATION

AERCSPACE MEDICINE IN AERCNAUTICS RESEARCH

N64-11882

AERCSCL

PRECECURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS

CCMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO CETERPINE BACTERIAL AEROSOL CONCENTRATION JPRS-23283 N64-15293

HYGIERIC CHARACTERISTICS OF INDUSTRIAL RHENIUM **AERCSCL** JPRS-26069 N64-27671

AERCSPACE MEDICINE CF BICSIPULATION

STATE OF AEROSPACE MEDICAL RESEARCH WITH LIST OF BICMECICAL REQUIREMENTS CRITICAL TO FUTURE A64-11426

VALUE CF AERCSPACE MEDICAL RESEARCH TO CLINICAL MECICINE ILLUSTRATED BY CONSIDERATION OF EFFECTS CF ACCELERATION, WEIGHTLESSNESS, RADIATION AND SENSCRIAL CEPRIVATIONS

SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY SIMULATION METHODS AND BY ACTUAL METHODS WITH RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON SPACE-CRIENTATION FUNCTION OF THE LABYRINTH

PHARMACCLOGY RESEARCH AND APPLICATIONS IN AERCSPACE MEDICINE, NOTING KREBS CYCLE AND METABOLIC ACTIVITY IN HUMAN BODY

A64-11439

HIGH ALTITUDE EFFECTS ON MAN, COMPARING ENVIRONMENT ACAPTATION OF TRAINED AND UNTRAINED SUBJECTS

PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING CHARACTERISTICS AND EFFECTS OF AERCHAUTICAL NOISE

CCULAR DEFECTS DISQUALIFYING AIR FORCE RECRUITS A64-12142

RANGE OF PHYSICLEGICAL TOLERANCE ENCOUNTERED IN AIRCRAFT AND SPACE VEHICLES A64-12379

BCCK ON FUMAN RESPONSE TO ENVIRONMENTAL CONDITIONS ENCCURTERED IN SPACE

PHYSICAL AND PHYSICLOGICAL FACTORS OF TEMPERATURE EFFECT EN HUMAN PERFORMANCE A64-12981

WEIGHTLESSNESS WITH RESPECT TO ORIENTATION, PSYCHEMETER PERFORMANCE AND PHYSIOLOGICAL FUNCTION A64-12982

HISTOPATHOLOGY OF EXPERIMENTAL DECOMPRESSION SICKNESS IN THE DOG, NOTING BONE MARROW EMBOLI AND FAT EMBOLIZATION A64-13514

RADIOBICLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTCLOGICAL ORGANISMS A64-13798

PHYSICIAN ROLE IN SPACE MEDICINE

A64-14118

RADIOBIOLOGICAL PROBLEM OF EFFECT OF IONIZING RADIATION UPON A HUMAN CRGANISM, DURING ORBITAL AND SPACE MISSIONS A64-15 A64-15629

SPACE MEDICINE EXPERIENCE IN MANNED SPACE FLIGHT APPLIED TO APCLLO AAS PAPER 64-12 A64-17959

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

A64-18256

SYNTHESIS OF CARBCHYDRATES FROM THE CARBON DIOXIDE AND WATER PRESENT IN A CLOSED CIRCUIT RESPIRATORY SYSTEM TRAVELING THROUGH SPACE AIAA PAPER 63-143

AERCMEDICAL ASSISTANCE TO INDUSTRIAL PHYSICIANS IN PILCT AND PASSENGER SELECTION FOR BUSINESS FLIGHTS A64-22820

AERCSPACE MEDICINE FOUNCATION AND PRINCIPLES, CONSIDERING WEIGHTLESSNESS AND HIGH ENERGY IONIZING RADIATION A64-23136

PERSONALIZED RADIC TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONCITIONS

REVIEW OF HUMAN TCLERANCE TO FORCED ENVIRONMENTS OF SPACE FLIGHT, INCLUDING EFFECTS OF PROLONGED AND TRANSIENT ACCELERATIONS, VIBRATIONS AND NOISE

MEDICAL AND BICENGINEERING PROBLEMS IN LIFTING BCDY DESIGN INCLUDING VISIBILITY AND CONTROL A64-24714

HUMAN ENGINEERING PROBLEMS IN LIGHT ATTACK AIRCRAFT DESIGN INCLUDING PILOT EFFICIENCY, COMFORT, SAFETY, SURVIVAL AND COMBAT EFFECTIVENESS

EFFECTS OF GRAVITY ON CENTRAL NERVOUS SYSTEM. SPECIFICALLY EFFECTS OF ACCELERATION AND VIERATION

PHYSICLEGICAL AND PSYCHOLOGICAL EFFECTS OF ISOLATION AND CONFINEMENT ON HUMAN RELIABILITY A64-24977

BOOK ON SPACE BIOLOGY AND AEROSPACE MEDICINE A64-25568

SPACE FLIGHT FACTORS IN SPACE BIOLOGY AND MEDICINE INCLUDING ACCELERATION, ISCLATION, TEMPERATURE FLUCTUATIONS AND PRESSURE GRADIENTS

ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN DOGS AND RATS A64-25590

INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION MODELS A64-25605

HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF MCRAL DISCIPLINE IN WORKMANSHIP

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING IMPACT CVER LCADS, INCLUDING CARDIOVASCULAR SYSTEM PAPERS CN BIOASTRONAUTICS PROBLEMS FROM AMERICAN ASTRONAUTICAL SCCIETY MEETING IN CLEVELAND IN DECEMBER 1963 A64-28338

BICLOGICAL AND MEDICAL CONSIDERATIONS OF SPACE FLIGHT INVESTIGATING PHYSIOLOGICAL FUNCTIONS, WORKING ABILITY, HEALTH AND SAFETY OF ASTRONAUT A64-28459

PSYCHCLEGICAL CONTRIBUTIONS OF AEROSPACE PHYSICIANS TO PILOT TRAINING A64-28578

CEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF CARDIAC FREQUENCY A64-80023

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SCLAR RADIATION ENVIRONMENT OF INTERPLANETARY SPACE A64-80061

BICMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH STUDIES OF F-105 PILOTS A64-80094

SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE CRIGIN OF LIFE, CLOSED ECCLOGICAL SYSTEMS, EFFECTS OF WEIGHTLESSNESS AND RADIATION, AND MEASURING INSTRUMENTS A64-80124

MECICAL PROBLEMS OF CIVILIAN AIR TRANSPORT
A64-80158

BIBLICGRAPHY OF AEROSPACE MEDICINE IN JAPAN A64-80166

CASE HISTORIES ILLUSTRATING CAUSES OF AIRCREW DISCREERS A64-80180

FEAR CF FLYING SYNCRCME - REAPPRAISAL AND PROGNOSIS A64-80181

SPACE MECICINE IN THE MANNED SPACE FLIGHT PROGRAM CF NASA A64-80213

CARCICVASCULAR DISEASE AND DISORDER FOUND IN MILITARY AND CIVILIAN PILCTS INVOLVED IN AIRCRAFT ACCIDENTS A64-80223

FLIGHT SURGEON RULE IN MAINTENANCE OF HUMAN ELEMENT IN MAN-MACHINE-ENVIRONMENT COMPLEX A64-80224

MEDICAL PROBLEMS OF SPACE FLIGHT - TRAINING AND SELECTION OF ASTRONAUTS A64-80227

EICASTRONAUTICS AND AEROSPACE MEDICINE PROBLEMS IN MANNED SPACE FLIGHT AGING - SCCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL ASPECTS A64-80231

AERCHECICAL SELECTION STANDARDS OF NATO NATIONS
FOR AIRCREWS REEVALUATED A64-80269

ELECTRCENCEPHALCGRAPHY IN AVIATION MEDICINE
A64-80274

RELATIVE BICLCGICAL EFFECTIVENESS OF RADIATION IN RELATION TO SPACE MEDICINE RESEARCH

A64-80277

AIR TRANSPORT OF SICK AND WOUNDED - MEDICAL GONSIGERATIONS A64-80304

MECICAL ASPECTS OF ASTRONAUT TRAINING AND ROLE CF

HUMAN TCLERANCE TO COMBINED SPACE FLIGHT STRESSES A64-8C495

GYNECCLCGICAL PROBLEMS AND STRESS IN AVIATION AND SPACE MEDICINE - REVIEW A64-80521

MEDICAL PROBLEMS OF FLYING PERSONNEL

A64-80594

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUCRECARBON RESIN PYROLYSIS A64-80637

HISTORY OF CEVELOPMENT AND USES OF HUMAN CENTRIFUCE IN AEROSPACE MEDICINE

A64-80680

RESPIRATORY PHYSICLOGY IN AEROSPACE MEDICINE
A64-80718

PSYCHOSCMATIC BASES FOR EYE DISEASES IN THE AVIATOR A64-80755

ROLE AND QUALIFICATIONS OF FLIGHT SURGEON IN AERCSPACE MEDICINE A64-80756

AIRLINE FLIGHT SURGEON CUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL AND HUMAN FACTORS RESEARCH IN EARTH ORBITING STATIONS A64-80850

EVALUATION OF PRIMARY COURSE OF AERCSPACE MEDICINE AND ENGLISH LANGUAGE COURSE FOR FOREIGN FLIGHT SURGEONS A64-81086

TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICC-LEGAL ASPECTS A64-81160

PRINCIPLES AND METHODS CF USING ELECTROENCEPHALOGRAPHY IN AEROSPACE MEDICINE A64-81336

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE JPRS-18627 N64-10503

ABSTRACTS OF CURRENT MEDICAL RESEARCH

N64-10621

HISTORY OF AVIATION MEDICINE JPRS-19125

N64-11219

AEROSPACE MEDICINE IN AERONAUTICS RESEARCH N64-11882

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS
RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT
EMBCLISM OURING DECOMPRESSION
DVL-273
N64-12751

ABSTRACTS OF CURRENT LITERATURE IN AERCSPACE
MEDICINE N64-12899

AERCSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS AGARDOGRAPH-52 N64-13493

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH NASA-TH-X-51344 N64-14866

OXYGEN CEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE DVL-205 N64-15034

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE NADC-MA-6328 N64-15755

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

.... 15050

AERCMEDICAL HANCBOOK TO PROVIDE AIRCREWS WITH UNDERSTANDING OF BIOLOGICAL SCIENCES AFFECTING FLYING AGARD-411, AMEND. N64-19922

AERCSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY N64-20020

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772

AERCSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE

FTD-TT-64-140/164 N64-24

ANNCTATED BIBLICGRAPHY ON AEROSPACE MECICINE AND

BICLOGY NASA+SP-7011

N64-25948

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE N64-26357

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS JPRS-25765 N64-27059

MEDICAL ASPECTS OF SPACE FLIGHT EP-17

N64-27071

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIGLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY JPRS-26116 N64-28432

SPACE BICLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT JPRS-26231 N64-28859

AERCSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RACIATION, WEIGHTLESSNESS, ACCELERATION, AND BICINSTRUMENTATION

MASA-RP-306 N64-29339

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE
MEDICINE AND BIOLOGY - RADIOTELEMETRY

MEDICINE AND BIOLOGY - RADIOTELEMETRY

JPRS-24682

N64-30234

APPLICATION OF RADIOTELEMETRY TO AEROSPACE Medicine N64-30235

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSICNS AD-445253 N64-30712

MECICINE, AEROSPACE, AND MANNED SPACE FLIGHT

N64-30713

SPACE MEDICINE AND MANNED SPACEFLIGHT

N64-30714

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM

N64-30715

AIR FCRCE MEDICAL SUPPORT OF SPACE PROGRAM

N64-30716

AERCSPACE MEDICINE AND ASTRONAUT EVALUATION N64-30722

PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS, RACIATION, METEORITE IMPACT, ARTIFICIAL ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE FTC-TT-64-203/1 N64-31073

ANNOTATEC BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BICLOGY
NASA-SP-7011/02/

ANNOTATEC BIBLIOGRAPHY OF AEROSPACE MEDICINE AND BICLOGY
NASA-SP-7011/03/
N64-32741

AEROSPACE TECHNOLOGY

CCLLECTION OF PAPERS PRESENTED AT THE PROCEEDINGS OF THE INTERNATIONAL CONGRESS ON MAN AND TECHNOLOGY IN THE NUCLEAR AND SPACE AGE

A64-11410

AEROSPACE VEHICLE
WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE
U413-64-056
N64-26883

AERCZINE

EFFECTS CF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON
TOXICCITY CF AEROZINE
SAP-TDR-64-49

N64-31052

AFTERIMAGE EXTRACCULAR FEEDBACK IN BINCCULAR RIVALRY A64-80744 SPATIOTEMPORAL RELATIONS IN AFTEREFFECTS OF I-FIGURE ON CRITICAL FLICKER FREQUENCY

A64-80934

VISUAL AFTERIMAGE PROLONGED BY POST-STIMULATION CONCITION IN VISUAL FIELD A64-81076

STEREODEPTH FROM AFTERIMAGES

A64-81213

AGE FACTOR
AGE INFLUENCE ON WORK PERFORMANCE AS SHOWN BY
EXERCISE TESTS
A64-12994

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS
A64-B0044

HEMOGLOBIN AT HIGH ALTITUDE AS RELATED TO AGE
A64-80045

ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA A64-80048

PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE, AGE, AND SEX IN ADULT HUMAN A64-80051

ALVECLAR AND ARTERIAL GAS TENSIONS AS RELATED TO ALTITUDE AND AGE A64-80170

DXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64-80222

AIR TRAFFIC MANAGEMENT - IMPLICATIONS OF AGE AT ENTRY FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS A64-80325

AGE IN RELATION TO DXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION

A64-8C518

PRECEDING MUSCULAR ACTIVITY EFFECTS ON CAPACITY OF UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS
A64-80600

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE A64-80664

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE: SEX, IQ, AND TIME OF DAY

A64~80779

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO CCLD A64-80783

CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND HEIGHT A64-80797

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY

SPEECH DISCRIMINATION TEST FOR AGING NAVAL AVIATORS PRESENTED TOGETHER WITH AIRCRAFT BACKGROUND NOISE A64-80854

AGE EFFECT ON SEQUENTIAL DECISIONS AND CARDIOVASCULAR STATUS AMONG PILOTS

A64-80864

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING AIRCREW A64-80865

TIME SPENT AT ALTITUDE, AGE, AND WEIGHT AS RELATED TO DECOMPRESSION SICKNESS A64-80950

AGE FACTOR AND FORESIGNAL IN CHOICE REACTION TASK PERFORMANCE IN YOUNG AND AGED ADULT HUMAN

AGE FACTOR AND REACTION TIME IN PERFORMANCE OF CARD SORTING TASK BY AGED AND YOUNG ADULT HUMAN

HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND

CXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN

AMPLITUCE, FREQUENCY AND DURATION OF NYSTAGMUS IN RESPONSE TO ANGULAR ACCELERATION RELATED TO VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY

HEART RATE AND OXYGEN CONSUMPTION OF HEALTHY HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION FROM REST TO EXERCISE IN RELATION TO EXERCISE A64-81CC7 TOLFRANCE

TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLECD OF HUMAN ADULT AND NEWBORN

HEART VCLUME, STROKE VOLUME, AND CARDIAC OUTPUT DURING EXERCISE OF CLD MEN COMPARED TO YOUNG MEN A64-81C31

SERUM CHCLESTERCL AND TOBACCO SMOKING AS RELATED TO CAPACITY FOR PHYSICAL WORK OF MEN OF A64-81 C68 DIFFERENT AGES

HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA A64-81C77 **PECTORIS**

HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING A64-81093 PHYSICAL EXERCISE

PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED, AND ELE INDIVIDUALS OF SIMILAR NONVERBAL INTELLIGENCE

ADULT PERCEPTION OF HORIZONTAL BY BOTH SEXES AS CCMPARED TO CHILDREN A64-81136

VITAL CAPACITY, MAXIMUM EXPIRATORY VOLUME, AND TIFFENAU INDEX MEASURED IN MALES BETWEEN 15 AND 18 A64-81163

AGE, INFORMATION TRANSMISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

TREATMENT OF BENZENE, TOLUENE AND XYLENE POISONING A64-81246 IN WOMEN AFTER FORTY

AGE FACTOR IN ADAPTATION OF HUMAN TO HYPOXIA A64-81247

HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF ERYTHROCYTES IN YOUNG AND MATURE DOG A64-81250

PHYSICAL EXERCISE AND EFFECT ON BLOOD SERUM PROTEIN FRACTIONS IN ELDERLY PERSONS A64-81332

AGING SA GERONTOLOGY CF AGE FACTOR VIBRATORY THRESHOLD AS AFFECTED BY AGING AND IMPAIRMENT OF PERIPHERAL CIRCULATION A64-80002

RORSCHACH PERFORMANCE AND INTELLECTUAL FUNCTIONING A64-80128 IN AGED INDIVIDUALS

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS PHS-G-CM-05385 A64-80129

AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT A64-80130 INVISIONAL FREQUENCY

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY A64-80131

REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING A64-80164 SIGNAL IN YOUTH AND OLD AGE

AGING EFFECT ON POSTURE CONTROL

A64-80185

THEORETICAL IMPLICATIONS OF RELATIVITY ON AGING - PHYSIOLOGICAL PROCESSES IN SPACE TRAVELERS A64-80350

ACCOMMODATION TABLES AND NORMAL VARIATIONS REEXAMINED IN RELATION TO AGE AND SEX

A64-80444

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENICR NAVAL AVIATORS A64-80498

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH

EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND, PROSTATE GLAND, AND WHITE BLOOD CELL A64-80566

PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH SEXES BY NOISE EXPOSURE AND AGING A64-80656

ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL A64-80966 MUSCLE IN HUMAN

CARDIGVASCULAR HEALTH AND AGING IN RELATION TO PSYCHOMOTOR PERFORMANCE IN HUMAN

A64-80971

PROTEIN AND LIPID CHANGES OF BLOOD SERUM A64-81070 DURING NORMAL AGING IN MAN

UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN RADIOGRAPHIC STUDY OF EFFECT OF AGING ON VENTRICULAR STRCKE AND PULMONARY CIRCULATION

RATE OF BIOLOGICAL SENESCENCE AT HIGH VELOCITY IN A64-81185 SPACE FLIGHT

AGE FACTOR IN MAMMALIAN RESPONSE TO HYPOXIA A64-81291

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRENOLOGICAL AGING N64-16728 CARI-63-18

BIOLOGY OF AGING USING IONIZING RADIATION STUDIES BNL-854/T-340/

AGRICULTURAL AIRCRAFT INJURY REDUCTION AND CRASH SAFETY DESIGN IN AGRICULTURAL AVIATION A6 A64-19141

AGRICULTURE MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS AEC-TR-6298

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY N64-21698 N1JS-R-425

SA AIRCREW SA COMPRESSED AIR CF ATMOSPHERE CF GAS

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING N64-17934

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES N64-31051 SAM-TDR-64-43

AIR BLAST DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT EXPOSED TO AIR SHCCK WAVES A64-81 A64-81063

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST DASA-1483

AIR CONDITIONING PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN -AIR CONDITIONING SYSTEMS N64-15590 FTD-TT-62-1545/1

AIR POLLUTION BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE SIC-63-755

N64-10137

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD HH-79652

N64-14924

AIR PURIFICATION

SA CARBON DIOXIDE REMOVAL AIR PURIFICATION IN CLOSED ECOLOGICAL SYSTEM BY BACTERIA WHICH UTILIZES MOLECULAR HYDROGEN FROM ELECTRCLYSIS OF WATER IN REDUCING CARBON DIOXIDE

ALKALI AND ALKALINE EARTH SUPEROXIDES USED IN NONREGENERATIVE AIR REVITALIZATION SYSTEMS FOR SPACE MISSIONS

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION

SEALED ENVIRONMENTS IN RELATION TO HEALTH AND DISEASE A64-80265

CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE A64-81037

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE JPRS-21610 N64-10201

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS

N64-11691

ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION. ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS N64-12139

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES NRL-6053 N64-18868

AIR TRAFFIC S AIR TRAFFIC CONTROL

AIR TRAFFIC CONTROL

AIR TRAFFIC CONTROL SPECIALIST TRAINING
PERFORMANCE PREDICTIONS BASED UPON APTITUDE TEST,
PREEMPLOYMENT AND JOB RELATED EXPERIENCE

AIR TRAFFIC MANAGEMENT - IMPLICATIONS OF AGE AT ENTRY FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS A64-80 A64-80325

APTITUDE TEST MEASURES FOR SELECTION OF TOWER AIR TRAFFIC CONTROL TRAINEES

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MCBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47 ESD-TDR-63-656 N64-15752

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS CARI-63-31 N64-29848

AIR TRANSPORTATION CF CIVIL AVIATION

AIR TRANSPORTATION OF PATIENTS WITH CONGENITAL HEART DISEASE

TRANSPORTATION TECHNIQUES OF AEROMEDICAL EVACUATION IN ALGERIA A64-80035

ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN CASES IN FRANCE A64-80284 AIR TRANSPORT OF SICK AND WOUNDED - MEDICAL

PARASITIC DISEASES SPREAD BY AIR TRANSPORTATION A64-80313

DIURNAL VARIATION IN BODY TEMPERATURE DURING RAPID AIR TRANSPORTATION ACROSS LONGITUDES

A64-80406

HISTORY OF AIR RESCUE SERVICE AND USE AND DEVELOPMENT OF DEVICES AND TECHNIQUES FOR AIR EVACUATION OF SICK AND MOUNDED - RESCUE IN SPACE A64-80597

AIR EVACUATION OF PATIENTS WITH ACUTE RESPIRATORY PROBLEMS USING INTERMITTENT POSITIVE PRESSURE

AIR TRANSPORTATION OF PATIENTS WITH PULMONARY DISEASE A64-80757

AIR TRANSPORTATION OF CARDIAC PATIENTS

A64-80775

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS WGLR-6/1963

AIRBORNE INFECTION

AIREORNE MICROORGANISMS AS SOURCE OF INFECTION DURING LOW GRAVITATIONAL SPACE FLIGHT AND METHODS OF RECOGNITION BASED ON CHLORIDE CONTENT

A64-80827

AIRCRAFT

AGRICULTURAL AIRCRAFT

AIRCRAFT LIGHTING AIRCRAFT MAINTENANCE

AIRCRAFT SAFETY

BALLOON

DOUGLAS DC-8 AIRCRAFT F-105 AIRCRAFT HELICOPTER

JET AIRCRAFT

LIGHT AIRCRAFT SUPERSONIC AIRCRAFT T-33 AIRCRAFT

TERRAIN FOLLOWING AIRCRAFT

X-15 AIRCRAFT X-20 AIRCRAFT

AIRCRAFT ACCIDENT

SURVIVAL FOLLOWING CONTROLLED AIRCRAFT CRASHES A64-13996

ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL AVIATION ACCIDENTS A64-19138

AIRCRAFT ACCIDENT PREVENTION PROGRAM OF FAA SAE PAPER 854D A64-20234

POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION SAE PAPER 851D A64-20452

AIRCRAFT ACCIDENTS AND FATALITIES WITH EMPHASIS ON EJECTION AT SAFE ALTITUDE A64-20697

AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH INJURIES TO PASSENGERS SAE PAPER 851A A64-20759

RELATIONSHIP OF FREQUENCY OF PATHOLOGICAL DEFECTS OF SAMPLE PILOTS IN AIRCRAFT ACCIDENTS TO SAME DEFECTS IN TOTAL PILOT POPULATION

PATHOLOGY OF LIGHT AIRCRAFT ACCIDENTS

A64-80177

A64-25549

CARDIOVASCULAR DISEASE AND DISORDER FOUND IN MILITARY AND CIVILIAN PILOTS INVOLVED IN AIRCRAFT

NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN AIRCRAFT ACCIDENTS A64-80243 AIR FORCE AIRCRAFT ACCIDENTS RESULTING IN INJURIES AND FATALITIES - RECOMMENDATIONS FOR SURVIVAL A64-80503

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE HISTORY A64-80508

FAT EMBOLISM ASSOCIATED WITH UNEXPLAINED AIRCRAFT ACCIDENT A64-80791

PSYCHOLOGICALLY PRODUCED HYPERVENTILATION
IN AIRCRAFT ACCIDENTS AND METHODS OF PREVENTION
A64-80818

STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY A64-80851

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED TO AIRCRAFT ACCIDENTS A64-80923

EMERGENCY SUPPLY - INITIAL SUPPORT FOR FLIGHT
MEDICINE AND BIOENVIRONMENTAL ENGINEER
A64-81078

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS N64-15047

CREDIBLE CATASTROPHIC EVENTUALITIES FROM
PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND
WEATHER CONTROL
NASA-CR-58145 N64-30504

AIRCRAFT ACCIDENT INVESTIGATION
PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS
A64-80132

AIRCRAFT ACCIDENT INVESTIGATION WITH AID OF HYPNOTIC RECALL A64-80337

CIVIL AVIATION AIRCRAFT ACCIDENT INVESTIGATION -METHODOLOGY AND PATTERNS OF RESEARCH IN RELATION TO HUMAN FACTOR A64-80458

ACCIDENT RESEARCH REVIEWED AND CRITICIZED IN AREAS
OF CAUSATION AND PREVENTION A64-80459

VOLUME JUDGMENT FROM PHOTOGRAPHS OF COMPLEX SHAPES AND UTILIZATION IN AIRCRAFT ACCIDENT INVESTIGATION A64-80588

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED ORIGIN A64-80717

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS
CARI-63-35
N64-29850

AIRCRAFT CABIN
OZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN TROPICAL AREAS A64-81317

RELATIONSHIP BETMEEN INSPIRED OXYGEN CONCENTRATION
AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH
ALTITUDE FLIGHT
EPRC-1214
N64-25848

AIRCRAFT DESIGN
HUMAN ENGINEERING FACTORS AND LIMITATIONS APPLIED
AT INITIAL DESIGN STAGES OF SUPERSONIC TRANSPORT
A64-16438

DYNA SOAR COCKPIT AND CREW PROTECTION SYSTEMS
DESIGN, NOTING IMPORTANCE OF PILOT PARTICIPATION
A64-24715

HUMAN ENGINEERING PROBLEMS IN LIGHT ATTACK AIRCRAFT DESIGN INCLUDING PILOT EFFICIENCY, COMFORT, SAFETY, SURVIVAL AND COMBAT EFFECTIVENESS

SUPERSONIC TRANSPORT DESIGN WITH REGARD TO BIOENGINEERING REQUIREMENTS FOR DISPLAY AND CONTROL SYSTEMS A64-24717 DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY LANDINGS IN FRANCE A64-80285

FLIGHT SURGEON USE OF ANTHROPOMETRY IN ASSESSING POTENTIAL ACCOMMODATION OF PILOT IN NAVAL AIRCRAFT A64-81335

AIRCRAFT ENGINE S JET ENGINE

AIRCRAFT FUEL
FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS

N64-18148

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND
THERAPY
JPRS-16055
N64-28631

AIRCRAFT INSTRUMENT

AIRCRAFT ENGINE INSTRUMENT DISPLAY TYPES IN

DISCUSSING EASE OF READING, ACCURACY, COMPLEXITY

AND SPACE

A64-24310

PILOTING ERRORS AND AIRCRAFT INSTRUMENTS RSIC-89 N64-12238

AIRCRAFT LANDING

EFFECT OF SEASONAL CHANGES OF NATURAL BACKGROUND
COLORS ON AIRCRAFT VISIBILITY OF AIRFIELD DISTANCE
MARKERS

A64-19172

AIRCRAFT LIGHTING
MEASUREMENT OF AMPLITUDES OF VISUAL ACCOMMODATION
UNDER RED AND WHITE ILLUMINATION LEVELS
APPROXIMATING COCKPIT CONDITIONS

A64-1025

AIRCRAFT MAINTENANCE
TRAINING AND INSTRUCTION BY MEANS OF TEACHING
MACHINES IN FIELD OF AVIATION
A64-28168

AIRCRAFT MULTIPURPOSE TEST EQUIPMENT /AMTIDE/ S CHECKOUT EQUIPMENT

AIRCRAFT NOISE
PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING
CHARACTERISTICS AND EFFECTS OF AERONAUTICAL NOISE

SOUND PRESSURE LEVEL MEASUREMENT, BY MEANS OF DATA ON NOISE SOURCE AND SOUND TRANSMISSION PROPERTIES IN PISTON AND JET AIRCRAFT A64-12381

NOISE RATING SCALES FOR EVALUATION OF INFLIGHT AIRCRAFT NOISE A64-12996

DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT A64-13520

HUMAN ANNOYANCE MEASUREMENT OF SIMULATED SONIC BOOMS AND AIRCRAFT NOISE A64-16711

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT A64-20692

ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE VARYING IN INTENSITY, DURATION, NOISE SPECTRUM, FREQUENCY, AND NUMBER OF REPETITIONS

A64-80090

ACOUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR RELATION TO ASSESSMENT OF HEARING LOSS AND OCCUPATIONAL DEAFNESS A64-80263

NOISE ANALYSIS OF MILITARY AIRCRAFT AND SEPARATE
COMPONENTS IN FLIGHT AND ON GROUND

A64-80330

AIRCRAFT NOISE AT AIRPORTS - EFFECT ON NEARBY
COMMUNITIES AND ON WORKING ENVIRONMENT OF AIRPORT
PERSONNEL A64-80369

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

AIRCRAFT NOISE EVALUATION AS RELATED TO RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING A64-80682

SPEECH DISCRIMINATION TEST FOR AGING NAVAL AVIATORS PRESENTED TOGETHER WITH AIRCRAFT BACKGROUND NOISE A64-B0854

AIRCRAFT PART

BODY SUPPORT CHARACTERISTICS OF NET FABRIC SEAT CONFIGURATIONS FOR AEROSPACE VEHICLES, EVALUATED FROM ACCELERATION, IMPACT AND VIBRATION TESTS SAE PAPER 851C A64-20688

SEAT-MCUNTED DXYGEN SUPPLY SYSTEM FOR LIGHTNING AIRCRAFT FPRC/MEMC-202 N64-25845

AIRCRAFT SAFETY

INJURY REDUCTION AND CRASH SAFETY DESIGN IN AGRICULTURAL AVIATION A64-19141

IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON PILOT A64-19143

HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER EVACUATION FROM SURVIVAL ACCIDENTS SAE PAPER 851B A64-20760

EXIT REQUIREMENTS FOR EMERGENCY EVACUATION OF COMMERCIAL AIRLINERS A64-22002

LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE FA-M64-23-1 N64-17649

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT FTC-TT-63-420 162 N64-29857

AIRCREM

PHYSICLOGICAL AND PSYCHOLOGICAL FACTORS IN SELECTION OF FLYING PERSONNEL ASSIGNED TO SUPERSONIC AND HYPERSONIC TRANSPORT AIRCRAFT

CARDIOVASCULAR EXAMINATION IN SELECTION OF AIRCREM

FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING A64-1948

NEPHRITIS AND RENAL CALCULUS IN FRENCH AIRCREMS
A64-80032

INTRAVENOUS UROGRAPHY IN AIRCREWS

A64-80033

SPONTANEOUS PNEUMOTHORAX IN FLYING PERSONNEL - ITS ETIOLOGY, PATHOLOGY, DIAGNOSIS, AND TREATMENT

A64-80096

CASE HISTORIES ILLUSTRATING CAUSES OF AIRCREW DISORDERS A64-80180

ACCUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR RELATION TO ASSESSMENT OF HEARING LOSS AND OCCUPATIONAL DEAFNESS A64-80263

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREM MEMBERS

A64-80327

FOOD MANAGEMENT AND NUTRITION FOR MANNED SPACE STATIONS A64-80396

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING AIRCREW A64-80865

PORTABLE SOLAR STILL FOR RECOVERY OF POTABLE MATER BY AIRCREM SURVIVORS AT SEA A64-81030

AEROMEDICAL HANDBOOK TO PROVIDE AIRCREMS WITH UNDERSTANDING OF BIOLOGICAL SCIENCES AFFECTING FLYING AGARD-411, AMEND. N64-19922

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION

FTD-TT-63-774/162

N64-22180

AIRFLOW

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS
OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE
SUITS
SAM-TDR-63-59
N64-12855

AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS JPRS-24357 N64-18980

AIRFOIL

S WING

AIRPORT

EFFECT OF SEASONAL CHANGES OF NATURAL BACKGROUND COLORS ON AIRCRAFT VISIBILITY OF AIRFIELD DISTANCE MARKERS A64-19172

CONTROL OF RODENT POPULATION AND POTENTIAL
VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS
A64-80913

AIRPORT MEDICAL SERVICE
SMALLPOX IMMUNITY SURVEY AT LARGE INTERNATIONAL
AIRPORT
A64-80097

AIRPORT PLANNING

AIRCRAFT NOISE EVALUATION AS RELATED TO RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING

AL ASK

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS
INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25
N64-31935

ALBUMIN

SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS UCLA-519 N64-13004

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES
OF HUMAN SERUM RADIDALBUMIN
UCLA-12-521
N64-20672

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS
OF CHLOROPHYLL
N64-23660

ALCOHOL

SA ETHYL ALCOHOL SA POLYVINYL ALCOHOL CF CHOLESTEROL ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL AVIATION ACCIDENTS A64-19138

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM N64-15383

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS FTD-TT-64-97/164 N64-25462

ALGAE

CF CHLORELLA
CF DUNALIELLA
DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE
USED FOR SUPPORT OF HUMANS IN SPACE

A64-24976

AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BIOLOGICAL AIR REGENERATION SYSTEM

A64-25613

COMPOSITION AND FOOD VALUE OF ALGAE FOR USE IN SPACE FLIGHTS A64-80038

TECHNOLOGICAL PROBLEMS OF WATER AND FOOD SUPPLY IN MANNED SPACE FLIGHT A64-80133

ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE TRAVEL A64-80208

RADIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM A64-80324 CARBON DIOXIDE CONCENTRATION AS RELATED TO PHCTOSYNTHESIS IN MASS CULTURE OF ALGAE A64-80608

PHCTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA

DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL CIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM 464-81118

MASS GROWTH OF PLANKTON ALGAE DURING PURIFICATION A64-81292 PROCESS IN BIOLOGICAL PONDS

INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN RHYTHM OF DXYGEN BALANCE IN CYTOPLASM OF GREEN A64-81320 ALGA, ACETABULARIA

CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN PRCTEIN RICH BIOMASSES N64-10476 JPRS-17433

FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES N64-10551 NRL-5954

CXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT N64-10557

INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM N64-11211

JPRS-18092

CELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND MATHEMATICAL EXPLANATION N64-11216 IPRS-19286

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS

AMRL-TCR-63-72 N64-1146 N64-11461

CRGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES N64-12CC1

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT

SKELFTON N64-12442 JPRS-22295

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR N64-12443 HUMAN NUTRITION

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS N64-15586 IIIRI-16002-4

ECCLCGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHCTOSYNTHETIC GAS EXCHANGERS N64-16325 NASA-CR-55423

CPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES N64-16643

SAM-TER-63-91

PHYSICLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDCLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON

ALGAE FTC-MT-63-49 N64-18672

PHCTCSYNTHETIC VARIABILITY IN ALGAE CELLS N64-19495

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE N64-23296

NITRCGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CCNTRCL STUCIES IN ALGAE AND MICROORGANISMS FTC-TT-63-1016/162 N64-23 N64-23655

CPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE N64-23656 PCTANY

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY

CONDITIONS IN LONG-TERM SPACE FLIGHTS

N64-23768

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS N64-23779

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL N64-24008

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE N64-29032 JPRS-26056

CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES N64-29034

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION N64-29906 SER1-64-5

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-330 N64-33019

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE N64-33407 NASA-TT-F-9146

ALGEBRA

BOOLEAN ALGEBRA

TRANSPORTATION TECHNIQUES OF AEROMEDICAL EVACUATION IN ALGERIA

ALGOR ! THM CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY N64-10007 ALGORITHM OPERATION

DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS OF TEACHING METHODS
JPRS-22075 N64-11270

ALGORITHMIC APPROACH TO ANALYSIS CF LEARNING PROCESSES AND PROBLEM SOLVING N64-N64-30324

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS

ALKALI METAL

CESIUM

POTASSIUM

RUBIDIUM SODIUM

ALKALOID

- ARECOLINE HYDROBROMIDE
- **ATROPINE**
- CAFFEINE
- MORPHINE

ALKALOSIS

KALUSIS NCNESTERIFIED FATTY ACICS IN VENOUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS, AND PURE OXYGEN BREATHING A64-806 464-80633

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR DXYGEN TRANSFER AND CONSUMPTION

N64-15037

ALKANE

HYDROCARBON ANALYSIS FOR CETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES NASA-CR-50703

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES N64-29202 NASA-CR-58500

ALLERGY S CONTACT DERMATITIS ALPHA RADIATION
ALPHA FARTICLE AND PROTON BEAMS IN RADIATION
THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA
N64-15205

PRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206

RACIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON
N64-22865

ALTERNATING CURRENT /AC/ AUCITCRY STIMULATION BY MODULATED ALTERNATING CURRENT APPLIEC TO SKIN OF TOTALLY DEAF HUMAN A64-80833

ALTITUDE
SA FLIGHT ALTITUDE
SA HIGH: ALTITUDE
SA LOW ALTITUDE
CF ALTITUDE SIMULATION
ALVEOLAR-ARTERIAL DXYGEN GRADIENT IN MAN BREATHING
VARICUS CXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND
SEA LEVEL
A64-80168

ALTITUDE ACCLIMATIZATION
OF ALTITUDE SICKNESS
RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA
DURING HIGH ALTITUDE ACCLIMATIZATION

A64-12988

CEREBRCSPINAL FLUID EFFECTS ON HIGH ALTITUDE RESPIRATORY ACCLIMATIZATION OF MAN

A64-23261

HEMCGLCBIN AT HIGH ALTITUDE AS RELATED TO AGE

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH

A64-80114

TELERANCE TO EXTREME COLD AT ALTITUDE IN A
NEPALESE PILGRIM A64-80121

ALTITUCE ACCLIMATIZATION IN NATIVES OF THE PERUVIAN ANCES A64-80136

RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER ADAPTATION TO ALTITUDE OF RIGHD AND CEREBROSPINAL FLUID A64-80160

ALVECLAR AND ARTERIAL GAS TENSIONS AS RELATED TC ALTITUDE AND AGE A64-80170

BLCCD CHCLESTEROL AND LIPIDS IN MORKERS AT ALTITUCE A64-80182

PULMCNARY CIRCULATION IN HIGH ALTITUDE NATIVES
A64-80183

BLCCD VCLUME AND HEMOGLOBIN CONCENTRATION AT ALTITUDES ABOVE 18,000 FEET A64-80400

ADAPTATION TO LOW PRESSURE - RESEARCH FACILITIES AND TECHNIQUES A64-80423

PHYSICLOGY OF NATURAL ACCLIMATIZATION OF MAN BORN AND LIVING IN HIGH ALTITUDE ENVIRONMENT A64-B0432

PHYSICLOGICAL, PSYCHOLOGICAL, AND NUTRITIONAL FACTORS IN MOUNTAIN EXPLORATION ABOVE 5,000 METERS

A64-80433

RELATIONSHIP OF BALLOON DEVELOPMENT AND MANNED
BALLEON FLIGHT TO STUDIES OF ATMOSPHERE - EFFECT
CF HIGH ALTITUDE EXPOSURE
A64-80434

ALTITUCE EFFECT ON RESPIRATORY REGULATION AND CHEMCRECEPTOR A64-80454

CARDIAC CUTPUT CURING MUSCULAR EXERCISE AS A FUNCTION OF ALTITUDE ACCLIMATIZATION AT 19,000 FEET IN THE HIMALAYAS A64-80517

AGE IN RELATION TO CXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUCE ACCLIMATIZATION

A64-80518

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE

A64-80664

FALLING EFFICIENCY AT SCRTING CARDS AND WEIGHT LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN HIMALAYAS A64-80915

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES

N64-15107

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TRCOPS AT 10,000 FEET OR ABOVE AD-428100 N64-19965

ALTITUDE SICKNESS
CF ALTITUDE ACCLIMATIZATION
ALTITUDE SICKNESS EXPRESSED AS CENTRAL NERVOUS
SYSTEM SYMPTOMS IN FEMALE MOUNTAIN CLIMBER

ALTITUDE SIMULATION
CF ALTITUDE
HEMATOCRIT RATIC AND SURVIVAL OF UNACCLIMATIZED
DOGS AT SIMULATED ALTITUDE
A64-80103

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY
MEN AFTER EXPOSURE TO RAPID DECOMPRESSION —
ALTITUDE SIMULATION TESTS
RR-3
N64-31886

ALTITUDE TEST
REACTION OF CIRCULATION, RESPIRATION, AND
METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH
ALTITUDE
N64-15046

ALTITUDE TOLERANCE
PURE DXYGEN INHALATION, PLYITUDE AND PRESSURE
BREATHINGS EFFECT ON MAXIMUM BREATH HOLDING TIME
A64-23764

ALVEOLAR AIR

CF EXPIRED AIN

ALVEOLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM

OF HYPERPNEA IN RAT EXPOSED TO COLD

A66-8006

CONTINUOUS MEASUREMENT CF ALVEOLAR AIR COMPOSITION A64-80056

RELATIVE COMPLIANCES OF WELL AND PCCRLY VENTILATED SPACES IN NORMAL HUMAN LUNG A64-81013

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY SAM-TOR-63-71 N64-26653

AMIDE

SA SULFANILAMIDE
INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON
BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND
PROPIONIC ACIDS
N64-18411

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

N64-22427

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES NASA-RP-236 N64-26710

AMINE

CF CATECHOLAMINE
CF CYSTEAMINE
CF HISTAMINE
CF SCOPOLAMINE
CF TRYPTAMINE
TESTS ON WHITE RATS TO INVESTIGATE RADIATION

PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS

N64-19059

N64-22775

N64-23308

A64-80352

A64-80780

A64-80883

A64-80388

N64-31545

JPRS-24164 A64-27581 INFLUENCED BY BIOGEN AMINES POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM FORMED MICROPARTICLES TETRACHLORIDE, AND ALIPHATIC AMINES N64-23366 BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES JPRS-25116 TOXICOLOGY OF ALIPHATIC AMINES N64-23370 NASA-CR-50483 PHARMACCLOGICAL EFFECTS ON CATS OF TETRAMETHYL AMINO ACIDS IN HUMAN DIET - NUTRITION STUDY N64-31346 FTD-TT-64-148/164 CISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-RRCPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-31348 PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPCSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE AMING ACID CF ADENINE CF CREATININE OF CYSTEINE CE PROTEIN AMPHETAMINE CF TRYPTCPHAN CF AMPHETAMINE SULFATE ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY STRECKER SYNTHESIS, INCLUDING PRODUCTION OF OPTICALLY ACTIVE L-ANALINE A64 CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM ASPARTATE, AND ETHYL ALCCHOL AT REST AND DURING A64-13306 FORMATION OF GUANINE DURING THERMAL POLYMERIZATION **EXERCISE** A64-16287 CE AMING ACIDS RESPIRATORY OUTPUT DURING WORK AS AFFECTED BY AMPHETAMINE AND METHAMPHETAMINE COMBINATION ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES N64-11068 JPRS-19287 TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE REACTIONS TO D-AMPHETAMINE AND PHENOBARBITAL CHLORELLA PYRENGIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMING ACIDS - SPACE BIOLOGY N64-11697 AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECCROIL AS RELATED TO CXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESCRIPTION ACID BY RIBONUCLEIC ACID CODING AMPHETAMINE SULFATE ANTIRACIATION ACTIVITY OF SULFUR AMINO ACID D-AMPHETAMINE SULFATE INFLUENCE ON PHYSICAL N64-12797 COMPOUNDS ON ANIMAL TISSUE PERFORMANCE AMING ACID COMPOSITIONS OF PROTEINCIDS AMPLIFIER N64-12944 CF LASER METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS N64-13632 AAL-TER-63-33 NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT AMPLITUDE LIVER MITCCHONDRIA - CHROMATOGRAPHIC ANALYSIS N64-14351 NACC-MA-6318 HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA SAM-TDR-63-69 ANALOG COMPUTER N64-14606 CF DIGITAL COMPUTER ELECTRICHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACIC, CXICASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS NASA-CR-55744 NA4-15873 ANALOG DATA ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-169 SPACE FLIGHT AMRL-TDR-64-10 ELECTRON PARAMAGNETIC RESCNANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA ANALOG SIMULATION RACIATION N64-18138 JPRS-23983 FUNCTIONS BICPHYSICS OF AMING ACIDS & PROTEINS N64-18517 JPRS-24046 CORRELATION OF AMINO ACID RADICALS IN PROTEIN N64-18518 MOLECULES MECHANISMS OF HUMAN BODY ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE N64-11773 MYDELECTRIC POTENTIALS USED TO OPERATE SERVO BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED N64-32480 ANALOG COMPUTER SIMULATION OF A NEURAL ELEMENT, USING LOCUS CONCEPT WITH EMPHASIS ON SYNAPTIC A64-14966 THERMOREGULATION AND MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM FOR ANALOG SIMULATION A64-81038 ANALOG COMPUTER SIMULATION OF THERMOREGULATORY N64-14966 AMRL-TDR-63-116 APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL N64-16691 MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS MITH & WITHOUT COCKPIT MOTION N64-17157 NASA-TN-D-2177

N64-18519

N64-18524

AMING ACID COMPOSITION OF PROTEINS

AND SYNTHESIS OF AMINO ACIDS

BICCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINGEN,

ANALVETC

	S CHERICAL ANALYSIS	
	S QUANTITATIVE ANALYSIS	
-EMA	LYTICAL CHEMISTRY	
	S CUANTITATIVE ANALYSIS	
	LYZER	
	ANALYZER FCR DETECTION OF ORGANIC COMPO ATMCSPHERE CF NUCLEAR SUBMARINE	UNDS IN
	NRL-6C64	N64-1940
***	FORM	
	TBMY BA ORGAN WEIGHT	
	CE BRAIN	
	CF GLAND	
	CF HEART	
	CF INTESTINE	
	CF JÖIKT /BIOL/ CF LIVER	
	CF SPLEEN	
	CE STOMACH	
- 1	INATOMY, PHYSICLOGY AND MECHANICS OF HU	MAN HOTION
	WITH APPLICATIONS TO PHYSICAL EXERCISE	
		A64-80596
,	PATHOLOGICAL ANATOMY OF ACUTE RADIATION	SICKNESS
1	IN RABBITS	
•	NEC-TR-563C	N64-10430
	NATCRICAL & PHYSIOLOGICAL DATA OF GAST	RO-
1	INTESTINAL TRACT FOR CALCULATING LEVELS	OF
	RADICACTIVE CONTAMINATION IN FOOD CHAIN	
t	UR-485.F	N64-16927
ŧ	SE CF ANATCHICAL & PHYSICLOGICAL EVIDE	NCE FOR
C	ENSTRUCTING THEORIES OF INFORMATION PRO	DCESSING OR
5	ENSORY CISCRIMINATION - AUDITORY SYSTEM	
		N64-18830
	THESICLEGY	
	FFECTIVENESS OF ANTIHISTAMINES IN AMES	THESIOLOGY
J	PRS-22058	N64-11432
ANES	THETIC	
C	F LICCCAINE	
E	VCKEC RESPONSE FROM AUDITORY CORTEX IN	CAT IN
	ELATION TO LOCAL INJURY TO CORTEX, ANE:	
_	NC SLEEP	A64-81027
ANGI	OSPERM	
	RCWTH MEASUREMENTS AND PHOTOSYNTHESIS S	TUDY OF
	NGICSPERMS	
A	MRL-TCR-63-131	N64-18773
	LAR ACCELERATION	
Ŧ	HRESHELES FOR PERCEPTION OF LINEARLY IN	CREASING
A	MCHIAR ACCELERATIONS WITH RECARD TO THE	

ANGULAR ACCELERATIONS WITH REGARD TO THEIR DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT A64-22819 HABITUATION TO ROTATION RESULTING IN CHANGES IN RRIMARY, SECONDARY, AND CALDRIC NYSTAGMUS A64-80620

THRESHELDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION

EFFECT CF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL CARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE

PANEUVERS

SAF-TER-63-78

NASA-CR-55624

CARI-63-29

ANGULAR MCMENTUM

AIAA PAPER 64-393

ANGULAR VELOCITY S ANGULAR MOMENTUM ANIMAL STUDY CF BAT CF BIRD CF CAT CF CHICKEN CF CHIMPANZEE CF DOG CF DOLPHIN CF FISH CF FROG CF GOAT CF GUINEA PIG CF HIBERNATION CF LIZARD CF

CF MONKEY CF ORGANISM CF PIGEON CF RABBIT CF RAT CF RODENT CF ZOOLOGY

DATA FRCH ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR STUDIES AND PERSONAL REPORTS ON EFFECTS OF ISOLATION, SENSCRY DEPRIVATION AND EXTREME HAZARD

LANCING IMPACT STRESS TCLERANCE OF ANIMALS IMMERSED IN MATER, NOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

A64-25597

THERMOREGULATORY SYSTEM OF HOMEOTHERMS AND POIKILOTHERMS IN COLD AND HOT ENVIRONMENTS

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE RADIATION A64-80685

BLOOD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS A64-80916

PHYSIOLOGICAL RESPONSE AND ADAPTATION TO HYPOXIA IN MAN AND OTHER CREANISMS

HYPOXIA AND EFFECT ON HEMATOPOIESIS IN MAN AND A64-81290

HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES JPRS-21405 N64-10002

PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS N64-11206

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS N64-11258

COMBINED ACTION OF NEUTRON IRRADIATION AND ELEVATED TEMPERATURE ON ANIMALS N64-11433

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS N64-11691

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS N64-12525

A64-80692

N64-12677

STECHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS

N64-12526

N64-12888

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS - INTERNAL PROCESS SELF-REGULATION - CYBERNETICS N64-12529

FAT EMECLISM IN ANIMALS DURING DECOMPRESSION N64-12756

ANTIRACIATION ACTIVITY OF SULFUR AMINO ACID N64-12797 COMPOUNDS ON ANIMAL TISSUE

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION

ACCUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF CRGANS & TISSUES OF MAN & ANIMALS
JPRS-22840 N64-13350

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS

LABELLEC THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES OF COLD EXPOSURE

N64-13631 AAL-TER-63-7

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARTNE ANTMAIS N64-15334 JPRS-23285

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK — ANIMAL STUDY AND STATISTICAL ANALYSIS N64-15592 ASD-TDR-63-136

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS N64-15680

THYROICAL INFLUENCE ON SURVIVAL OF ALTITUDE-EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL N64-15746 SAM-TCR-63-101

WEIGHTLESSNESS EXPERIMENTS WITH VARIOUS ANIMALS N64-16379

HUMAN AND ANIMAL TOLERANCE OF HEAT FTC-TT-63-650/184

N64-16383

ANIMAL POPULATION AND ECCLOGY AT ATOMIC POWER-PLANTS N64-16554 TTC-19562

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS

THERAPY FOR ANIMALS JPRS-23678

CELL DAMAGE IN RADIATION REACTION OF ANIMAL N64-16906

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING N64-17169

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-N64-18836 FREE ENVIRONMENT

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISCTOPES IN MARINE PLANTS AND ANIMALS N64-18969 JPRS-24227

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS N64-20517

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON **FLIGHTS**

SB-62-60

N64-20598 NASA-CR-53652 MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL

STUDY, AND CYBERNETICS
JPRS-24452 N64-20943

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL

INTOXICATIONS IN IRRADIATED ANIMALS

N64-20946

CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE N64-21282 JPRS-24896

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED DXYGEN CONTENT IN ENVIRONMENT N64-21480 JPRS-16105

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH FTD-TT-62-1876/1 N64-21928

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS N64-22290

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS N64-22941 NASA-TT-F-8895

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS FTD-TT-62-1548/18284 N64-23463

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER N64-23763

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE N64-24012 FTD-TT-64-140/184

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS

N64-24612

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL N64-25134 ANALYSIS

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS N64-27323 JPRS-25896

REACTION OF CARDICVASCULAR SYSTEM OF MAN AND N64-29090 ANIMALS UNDER WEIGHTLESSNESS

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS FTD-TT-64-282/182 N64-30156

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES JPRS-26500 N64-30742

PHARMACOLOGICAL CHARACTERISTICS OF SEVERAL PREPARATIONS - ANIMAL STUDY N64-31341 JPRS-26645

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE N64-31342 AND PHENAMINE

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION N64-31665 NADC-ML-6407

NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR MODIFIED BY DRUG INDUCEMENT AD-601689

DELIVERY APPARATUS OF PURE OXYGEN TO CLOSED SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC EXPERIMENTS WITH SMALL ANIMALS FTD-TT-63-1118/16264 N64-32663

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF

AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BOCY JPRS-26990 N64-33486

ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS N64-33662

DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS N64-33854

ANION

CF ELECTROLYTE PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040

ANODE

S ELECTRODE

ANOXIA

CF HYPOXIA ACCLIMATIZATION AND OTHER EFFECTS OF ANEXIA VIA EEG. HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS OF THE VISUAL CORTEX OF RABBITS

A64-14992

PROTECTIVE MECHANISMS FOR ANOXIA ON BONE MARROW GRAFTS IN WHOLLY IRRADIATED NICE WITH IONIZING RACIATION A64-2

ARTERIAL AND VENOUS BLOOD OXYGEN AND CARBON DICXIDE TENSIONS DURING BRIEF HYPERVENTILATION
WITH NITROGEN IN MAN

NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANDXIA IN GUINEA PIGS

ANOXIA VARIOUSLY INDUCED AND BRAIN DAMAGE IN A64-80219

ANCXIA INDUCED CHANGES IN METABOLITE CONTENT OF RAPBIT LUNG A64-80246

ANOXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYCANTOIN, TRIMETHADIONE, IODCACETATE, AND 464-80800

ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

A64-80803

PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS 464-80814

GLUCOSE AND CARBOHYDRATE METABOLISM IN ANOXIC-ISCHAEMIC RAT BRAIN A64-81048

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM N64-14585

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANDXEMIA N64-14587

ANTENNA COUPLER

S ENERGY TRANSFER

ARECOLINE HYDROBROMIDE

ANTHROPOMETRY

SA BODY MEASUREMENT /BIOL/ SA BODY SIZE /BIOL/

SA ORGAN WEIGHT CF HUMAN ENGINEERING

ANTHROPOMETRIC EVALUATION OF BODY COMPOSITION THROUGHOUT LIFE A64-80020

FLIGHT SURGEON USE OF ANTHROPOMETRY IN ASSESSING POTENTIAL ACCOMMODATION OF PILOT IN NAVAL AIRCRAFT A64-B1335

ANTIBIOTICS

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE -STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE JPRS-22625

ANTIBODY

CF ANTIGEN
CF GAMMA GLOBULIN
BENZENE POISONING IN RABBIT AND CHANGES IN
IMMUNIZATION AND TYPHOID ANTIBODY LEVEL

A64-80671

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS UR-634 N64-10190

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION JPRS-18020

N64-11023

N64-16098

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN JPRS-19936

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES

METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED SENSITIVITY N64-12771

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION N64-23455

ANTIBODIES TO HUMAN AL HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS

N64-25491 GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED $\boldsymbol{\epsilon}$ Nonirradiated

JPRS-26956 N64-32750

ANTICONVULSANT

JPRS-22121

CIPHENYL HYDANTOIN

ANTICYCLONE

METEOROLOGY

ANTIGEN

CF ANTIBODY CF GAMMA GLOBULIN SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS

AUTORADIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN WHITE PULP GERMINAL CENTERS OF NORMAL AND ANTIGENICALLY STIMULATED ANIMALS ORNL-3595 N64-20636

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IDDINE 131. & REGENERATION OF SCIATIC NERVE JPRS-24704

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244

ANTIGRAVITY

S GRAVITY

ANTIHISTIMIC

CF DIPHENYL HYDANTOIN CF METHAPYRILENE

EFFECTIVENESS OF ANTIHISTAMINES IN ANESTHESIOLOGY JPRS-22058

ANTTOXIDANT

RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS JPRS-19363 N64-11069 PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-CXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY N64-16543 JPRS-23567

ANTISEPTIC S ETHYLENE OXIDE

ANXIETY

CF TAYLOR MANIFEST ANXIETY SCALE VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX A64-80069

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT A64-80280

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC A64-80301

SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST ANXIETY SCALE A64-80936

APOLLO PROJECT

ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS INVOLVED IN SELECTION AND VALIDATIONS OF ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND APOLLO MISSIONS

FUNCTION OF PROJECTS GEMINI AND APOLLO IN MANNED A64-80523 SPACE FLIGHT

APOLLO PORTABLE LIFE SUPPORT SYSTEM

N64-30725

APOLLO SPACECRAFT
MANUAL CONTROL OF APOLLO SPACECRAFT DURING
ATMOSPHERIC ENTRY

N64-27946 NASA-TN-D-2467

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE -RADIATION HAZARD IN SPACE FLIGHT N64-33284 NASA-CR-59266

APPARATUS

S LABORATORY APPARATUS S MEASURING APPARATUS

HSR-RR-63/7-MK-X

MEASURING APPARATUS
PHOTOELECTRIC APPARATUS

APPROACH AND LANDING LABORATORY STUDIES OF ABILITY OF OBSERVERS TO PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING N64-10444

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING

N64-10445

APTITUDE

CF PERSONALITY
CF PERSONNEL SELECTION
APTITUDE TEST MEASURES FOR SELECTION OF TOWER AIR
TRAFFIC CONTROL TRAINEES
A64-8133-A64-81334

ARCTIC

PHYSIOLOGICAL CHANGES IN HUMAN ORGANISM DURING ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS AAL-TDR-63-16 N64-30975

ARECOLINE HYDROBROMIDE
ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN
STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN A64-80499 ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS AD-600641 N64-25925

AROMATIC COMPOUND S PHENOL

AROUSAL

CF ACTIVATION /BIOL/ HEAT EFFECT AND AROUSAL EFFECT ON SWEATING AND ELECTRODERMAL RESPONSE OF HAND AND CHEST A64-12937

BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MOTIVATION

REACTION TIME AND SERIAL RESPONSE EFFICIENCY ON AROUSAL FROM SLEEP A64-80 A64-80572

HYPNOTIC CONTROL OF COMPENSATORY TRACKING WITH NORMAL AND REVERSE COMPATIBILITY UNDER DIFFERENT STATES OF AROUSAL A64-807

NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND

AROUSAL EFFECT ON FIELD DEPENDENCE ASSESSED BY ROD AND FRAME TEST UNDER QUIET AND NOISE CONDITIONS

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS DURING SENSORY DEPRIVATION A64-81 A64-81212

ACOUSTICAL IMPEDANCE PRESENTED TO EARPHONES BY HUMAN EAR IS CRITICAL DESIGN FACTOR OF ACCURATE ARTIFICIAL EAR

MINIMUM ARTIFICIAL GRAVITATIONAL FORCE NEEDED FOR NORMAL POSTURE AND MOTOR ACTIVITY, USING ALBINO A64-25584 RATS AND MICE

ARTIFICIAL INTELLIGENCE CF GAME THEORY CF NEURAL NET ARTIFICIAL INTELLIGENCE GENERATED BY NATURAL A64-24824 EVOLUTION PROCESS

ARTIFICIAL RADIATION BELT VAN ALLEN BELT

ARTIFICIAL SATELLITE S SATELLITE

ASCORBIC ACID VITAMIN C ADMINISTRATION AND THE MECHANICAL EFFICIENCY OF HUMAN SUBJECTS DURING PHYSICAL A64-80248 **EXERCISE**

HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY FOLIC ACID AND CYSTEINE A64-8075

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO DXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80 A64-80883

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE **ENVIRONMENT** N64-11319 JPRS-20011

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE AD-429526

ASCORBIC ACID METABOLISM HYPOTHERMIA AND ASCORBIC ACID CONTENT AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT OTS 62-11760/1. A64-80060 ASIA S JAPAN

ASPARTIC ACID CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING **EXERCISE** A64-80352

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12

ASPHALT

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS FTD-TT-62-1449/18284 N64-16396

CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS
DUE TO ASPHYXIA DURING BIRTH N64-146 N64-14600

ASTHMA TEST BY PNEUMOTACHOGRAPHY AFTER INHALATION OF ACETYLCHOLINE AND ALEUDRINE A64-80286

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021 N64-11621

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

ASTRIONICS

S ASTRONAUTICS

ASTROBIOLOGY

S BIDASTRONAUTICS
S EXTRATERRESTRIAL LIFE
REQUIREMENTS FOR BIOLOGICAL EVOLUTION IN THE
UNIVERSE, ON THE BASIS OF NATURE AND EVOLUTION OF A64-10216

EXISTENCE OF LIFE ON PLANETS IN A BINARY SYSTEM, WITH REGARD TO HABITABLE ZONES, STABILITY OF PLANETARY ORBIT AND CONDITIONS FOR LIFE SUPPORT A64-10218

PHYSICO-CHEMICAL PROPERTIES OF LIFE, THE EVOLUTION OF LIFE, AND EVIDENCE OF EXTRATERRESTRIAL LIFE A64 11388

BASIC CONDITIONS FOR THE EXISTENCE OF LIFE IN THE UNIVERSE, AND ITS PROBABLE OCCURRENCE

ASTROBOTANY STUDIES SUGGESTING PRESENCE OF PLANTS A64-80528

HISTORY, NATURE, AND THEORY OF ASTROBIOLOGY JPRS-17724 N64-10643

ASTRONAUT

CF DRBITAL WORKER CF PILOT

PSYCHOLOGICAL AND PHYSICAL CRITERIA RECOMMENDED FOR SELECTION OF ASTRONAUTS A64-11427

HUMAN TOLERANCE TO CONFINEMENT AS RELATED TO PERSONALITY TRAITS INVESTIGATED IN SELECTION OF **ASTRONAUTS** 464-11434

HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK COMMITMENT STRESS A64-12978

FOOD FOR ASTRONAUTS DURING SPACE FLIGHTS, NOTING PROBLEMS AND PECULIAR ASPECTS OF EATING AND DRINKING IN SPACE ENVIRONMENT A64-134 A64-13449

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393 A64-21862

VISUAL PROBLEMS OF SPACE FLIGHT AND EXPERIENCE OF RUSSIAN AND AMERICAN ASTRONAUTS

VISUAL PROBLEMS FACING ASTRONAUTS IN ORBITAL

FLIGHT

464-80462

PSYCHOLOGICAL AND PHYSICLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS JPRS-20171 N64-11135

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS AMRL-TDR-63-72

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

ASTRONAUTS FOR MANNED SPACE FLIGHT NASA-FP-11

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT N64-18629

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION REPT -- 12-63 N64-20380

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS AIAA PAPER-64-218 N64-2360

N64-23608 ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT

PASSENGERS AIAA PAPER-64-220 N64-24972

SPACE FLIGHT OF TWO U.S.S.R. ASTRONAUTS N64-25163

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165

TELEMETRIC BIONETRY OF ASTRONAUTS DURING SPACE FI TGHT N64-25166

PSYCHOLOGICAL AND PHYSICLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT N64-25167

POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. N64-25168

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS FTD-TT-63-761/162 N64-29277

AEROSPACE MEDICINE AND ASTRONAUT EVALUATION N64-30722

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION FTD-TT-64-260/1

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN NASA-CR-59003 N64-33044

ASTRONAUT PERFORMANCE

GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS DE ASTRONAUTS

EFFECTS OF ACCELERATION ENVIRONMENT ON ASTRONAUT PHYSIOLOGICAL AND PERFORMANCE CAPABILITIES

A64-23213

SPACECRAFT CABIN ARRANGEMENT EFFECTS ON ASTRONAUTS PSYCHIC AND PHYSICAL TONUS A64-25579

U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE A64-26380

ASTRONAUT ROLE IN SPACECRAFT ORBITAL RENDEZVOUS A64-27814

OPTIMUM ASTRONAUT SELECTION WITH REGARD TO IN FLIGHT TESTING AND ACTUAL MISSION PERFORMANCE RECUIREMENTS

A64-28344

N64-23365

CIRCACIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRONAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT A64-80667

PHYSICLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738

IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLICGRAPHY SRB-63-13

ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH AMRL-TDR-64-56 N64-33530

ASTRONAUT TRAINING

SPACECRAFT PILOT SELECTION AND TRAINING FOR MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT SCHOOL A64-11340

PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR FOR ASTRONAUT TRAINING SAE PAPER 866H A64-20850

ASTRONAUT TRAINING REQUIRING MEDICAL KNOWLEDGE AND PHYSICAL FITNESS CEVELOPED BY SCUBA DIVING AND CENTRIFUGE CONDITIONING A64-24403

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

SCIENTIFICALLY TRAINED ASTRONAUTS IMPORTANT FOR LUNAR AND PLANETARY EXPLORATION

A64-28343

MECICAL PROPLEMS OF SPACE FLIGHT - TRAINING AND SELECTION OF ASTRONAUTS A64-80227

ROLE CF FLIGHT SURGEON IN SELECTION, TRAINING, AND CARE CF ASTRONAUTS A64-80392

MEDICAL ASPECTS OF ASTRONAUT TRAINING AND ROLE OF FLIGHT SURGEON A64-80487

RESPONSE TO WEIGHTLESSNESS AS RELATED TO ASTRONAUT TRAINING AND SELECTION A64-80525

ISCLATION AND DISCRIENTATION DURING SPACE FLIGHT
AS RELATED TO SELECTION, TRAINING, AND HUMAN
FNGINFFRING
A64-80647

THERMAL ENVIRONMENT AND PHYSIOLOGICAL LIMITATIONS AS RELATED TO NEED FOR HEAT ACCLIMATIZATION IN ASTRONAUT TRAINING A64-80663

ACCELERATION TOLERANCE AND PERFORMANCE AS RELATED TO SIMULATOR TRAINING OF ASTRONAUT

A64-806

CIRCACIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRCNAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT A64-80667

SPATIAL CRIENTATION DURING SPACE TRAVEL AND USE CF HALLUCINCGENS TO TRAIN ASTRONAUTS TO PERFORM UNDER CONDITIONS OF CISORIENTATION A64-81325

EFFECTS CF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS JPRS-21586 N64-10197

SOVIET SPACE FLIGHT TRAINING OF ASTRONAUTS
JPRS-21829 N64-10208

ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS
JPRS-2C1C0 N64-11133

SPACECREW SELECTION AND TRAINING - LITERATURE SURVEY S1C-63-707 N64-14423

SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING
N64-21869

COSMONAUT TRAINING

N64-23098

ASTRONAUT TRAINING FOR SPACE FLIGHT

N64-25164

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRONMENT JPRS-26762 N64-31440

ASTRONAUTICS

SA BIDASTRONAUTICS
COLLECTION OF PAPERS PRESENTED AT THE PROCEEDINGS
OF THE INTERNATIONAL CONGRESS ON MAN AND
TECHNOLOGY IN THE NUCLEAR AND SPACE AGE

A64-11410

ASTRONOMICAL OBSERVATORY
PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT
NEW MEXICO STATE UNIVERSITY OBSERVATORY
N64-16327

ATMOSPHERE

SA EARTH ATMOSPHERE

SA GAS SA PLANETARY ATMOSPHERE

SA SPACE CABIN ATMOSPHERE

CF AIR

CF STRATOSPHERE CF TROPOSPHERE

CF UPPER ATMOSPHERE

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS

A64-80771

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE REPT.-4 N64-22705

ATMOSPHERIC CIRCULATION
MCVEMENTS AND DISPERSION OF RESPIRED AIR OF
IMMCBILE ASTRONAUT DURING WEIGHTLESS FLIGHT
A64-80826

ATMOSPHERIC COMPOSITION
VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD
LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TO
CONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS
N64-24614

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSIOLOGICAL VARIABLES N64-30345

ATMOSPHERIC ENTRY

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY NASA-TN-D-2467 N

N-D-2467 N64-27946

ATMOSPHERIC IONIZATION
PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS
INCLUDING DEVICES FOR MEASURING CONCENTRATION AND
MOBILITY
A64-24167

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION JPRS-19067 N64-11064

ATMOSPHERIC POLLUTION
SEALED ENVIRONMENTS IN RELATION TO HEALTH AND
DISEASE
A64-80265

ADAPTATION OF MAN AND MAMMALS TO ATMOSPHERIC POLLUTANTS A64-80429

ATMOSPHERIC PRESSURE

BAROMETRIC PRESSURE EFFECT ON MAXIMUM PRESSURE—
VOLUME RELATIONSHIP OF HUMAN RESPIRATORY SYSTEM

A64-22059

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT

FPRC-1214

N64-25848

NEURCLCGIC ASPECTS OF HIGH BARCMETRIC PRESSURE PHENCMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPEN NERVOUS SYSTEM ACTIVITY AD-600259

PATHOPHYSICLOGY OF PULMONIC TOXICITY IN RATS EREATHING PURE CXYGEN AT REDUCED ATMOSPHERIC PRESSURE NACC-ML-6403

PHYSICLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMCSPHERIC PRESSURE CHANGES FPRC/MEMC-201 N64-28698

ATMOSPHERIC RADIATION ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION JPRS-21975

ATMGSPHERIC REFRACTION S LIGHT TRANSMISSION

ATMOSPHERIC SCATTERING S LIGHT SCATTERING

ATMOSPHERIC TURBULENCE FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULENCE ON JET AIRLINE PILOTS NACC-ML-6411 N64-31666

ICK

ATCHIC BOYR PANHATTAN PROJECT

BIBLICGRAPHY ON ATOMIC RACIATION EFFECTS TIE-3909 /SUPPL. 2/ N64-33138

ATCHIZATION S AERCSCL

ATROP INC ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD CIRCULATION AND HEART FUNCTION IN MAN

A64-80319

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE TETRAETHYLAMMENTUM, AND ISOFLUROPHATE /DFP/ ON VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80581

ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RACIANT HEATING OF TRUNK

A64-80998

EFFECTS CF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIENTS

ATTENTION

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK A64-80150

ATTENUATION S ACCUSTIC ATTENUATION

ATTITUDE S PITCH ATTITUDE

ATTITUDE CONTRCL CF HORIZON SENSING
THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING
ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT
ATTITUDE CENTROL AND SEMICIRCULAR CANALS 464-80692

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING CN PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK
AFTER THIRTY DAYS AMRL-TER-63-125 N64-16811

AUDIO EQUIPMENT SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY -LISTENING FATIGUE AND COMFORT AD-442827 N64-32376 COMFORT PROBLEMS RELATED TO SPACECRAFT COMMUNICATIONS EQUIPMENT AD-442828

N64-32377

AUDICERFOUENCY CE SOUND WAVE SOUNDPROOF ROOM PROVIDING MAXIMUM ATTENUATION IN SPEECH FREQUENCY RANGE A64-80610

AUDIOLOGY CF DEAFNESS CF HEARING PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING CHARACTERISTICS AND EFFECTS OF AERONAUTICAL NOISE

CHANGE IN FLUTTER RATES AND LOUDNESS OF NOISE BURSTS IN TERMS OF NEURCPHYSIOLOGICAL EVIDENCE AND AUDITORY THEORY A64-13301

FATIGUING TONE EFFECT INVESTIGATED AS FUNCTION OF LEVEL OF MENTAL ACTIVITY

INTERPRETATION OF CONTINUOUS MESSAGE SWITCHED ALTERNATELY TO LEFT AND RIGHT EARS, EXAMINING DISTORTION OF TEMPORAL PATTERN A64-A64-21332

PERCEPTUAL JUDGMENT OF LATERALIZATION OF SOUND IMAGES PRODUCED BY BINAURAL INTERACTION OF CLICKS WITH CLICKS OR CLICK PAIRS A64-21335

NCISE MASKED HEARING THRESHOLD FOR PULSES OF 800 CPS OVER WIDE RANGE OF PULSE DURATIONS AND BANDWIDTHS OF MASKING NCISE A64-213: A64-21336

DIAGNOSTIC USE OF HEARING TESTS

A64-80004

HEARING LOSS DETERMINED BY MODIFIED DOERFLER-STEWART TEST A64-80062

NOISE INDUCED DEAFNESS IN CAT

A64-80308

AUCITORY RESPONSE TO REPEATED EXPOSURE TO HIGH INTENSITY SOUND

AUDITORY ADAPTATION FOR PURE TONES COMPARED AT THRESHOLD AND SUPRATHRESHOLD LEVELS FOR CLINICAL A64-80955

MEDICAL RESEARCH IN AUDICHORY - FUNCTION OF AUDITORY ANALYZER AND INSTRUMENTS FOR EAR SURGERY JPRS-24519

AUDITORY DISCRIMINATION MODERATE POSTSTIMULATORY FATIGUE EFFECT ON EAR TUNING, USING BINAURAL PITCH MATCHING DATA

EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS
OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF
SIGNAL SCURCE LOCATION
A64-19516

INTERCRANIAL PERCEPTION OF LATERAL POSITION OF BINAURAL TONE SCUND IMAGES IN PRESENCE OF INTERAURAL TIME DELAY AND AMPLITUDE DIFFERENCE

HUMAN SENSORY DISCRIMINABILITY MEASURED ON BASIS OF UNBIASED WORD INTELLIGIBILITY TESTS, NOTING HIGHER VALUES FOR EXPECTED WORDS THAN FOR UNEXPECTED WORDS

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT 464-20692

AUDITORY DISCRIMINATION OF IMPULSE AND CONTINUOUS NOISE

EVEKED CORTICAL POTENTIALS DURING PERFORMANCE OF TASK REQUIRING DECISION IN DISCRIMINATING FILTERED

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES CF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM

N64-18830

TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ORGANS - AUDITORY CISCRIMINATION N64-18831

AUDITORY PERCEPTION SIMULTANEOUS SOUND TRANSMISSION THROUGH AIR AND BONE FOR REDUCING AMPLIFICATION REQUIREMENTS AND NOISE LEVELS IN SPACE COMMUNICATIONS

VISUAL DISPLAY IN WHICH RANDOM NUMBERS WERE PRESENTED AT RATE OF FIVE PER SECOND INTEGRATION OF ENERGY BY EAR THRESHOLD TESTED.

NOISE BURST EFFECT ON PERFORMING TASK OF SEARCHING

A64-17999

TEMPORAL SUMMATION PROCEDURE USED TO DETERMINE BACKWARD MASKING AS FUNCTION OF TIME INTERVAL BETWEEK SIGNAL AND NOISE ONSET A64-19518

DISTANCE PERCEPTION OF TWO AUDITORY SIGNALS, ONE BMITTEC FROM HEADPHONE AND OTHER FROM NEARBY A64-25826 LOUDSPEAKER

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF TONE STIMULUS DURATION A64-2663 A64-26635

HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING AUCITORY DETECTION, VISUAL DETECTION AND COMBINATION OF BOTH

NOISE EFFECT ON DETECTION OF VISUAL SIGNALS A64-80149

CETECTION OF RANCOM AUDITORY AND VISUAL SIGNALS UNDER DIFFERENT SCHEDULES A64-80201

PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MODALITIES A64-80289

INTERSENSORY AND INTRASENSORY EFFECT IN SIMPLE A64-80290 REACTION TIME

REVIEW OF VIGILANCE STUDIES

USING TONE PIPS AS STIMULI

A64-80377

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY A64-80493 RESTRICTION ON DOG

SEX DIFFERENCES IN REACTIONS TO DELAYED AUDITORY REEDBACK

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL, AUCITCRY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

ROLE OF FEEDBACK IN PERCEPTION OF TONES WITH AND WITHOUT BACKGROUND GAUSSIAN NOISE

A64-80857

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY A64-80897

LOUDNESS FUNCTION OF 1000 CPS TONE IN PRESENCE OF MASKING NOISE

AUCITCRY-VISUAL CIFFERENCES IN TIME JUDGMENT MAINTAINED WITH WHITE LIGHT AND WHITE SCUND A64-81217 STIMULT.

EAR AS FREQUENCY ANALYZER

A64-81235

AUDITORY AUTOKINETIC EFFECT SHOWN INDEPENDENT OF TONE FREQUENCY AND INTENSITY A64-81306

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE RRCCECURES N64-14411 CARI-63-17

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NOISE N64-15889 AD-236942

CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY DETECTION TASKS NAVTRACEVCEN-3143-1 N64-22518 EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS N64-29767 EPRC-1209/8/

AUDITORY SENSATION AREA ELECTROSTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIOLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS

A64-25545

AUDITORY CORTEX RESPONSE OF UNANESTHETIZED CATS TO ACOUSTIC STIMULI

MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT PRIMARY NEURON LEVEL OF AUDITORY SYSTEM N64-11414

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN N64-13582 JPRS-22735

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NOISE N64-15889 AD-236942

AUDITORY SIGNAL CF PSYCHOACOUSTICS QUANTITATIVE BLACK BOX MODEL FOR INTERPRETING DATA ON BINAURAL MASKING LEVEL DIFFERENCE AT HIGH FREQUENCIES

BANCPASS FILTERING EFFECTS ON LOUDNESS OF GATED AUDITORY SIGNALS RELATIVE TO UNFILTERED SIGNALS, RELATING DETECTABILITY SCALE AND LOUDNESS-MATCHING

AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT A64-80130 LOW SIGNAL FREQUENCY

REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING SIGNAL IN YOUTH AND OLD AGE A64-80164

JUDGMENT OF VISUAL AND AUDITORY SIGNAL DURATION A64-80849

EYE FIXATION CONTROL BY AUDITORY FEEDBACK A64-80905

AUDIBILITY OF BINAURAL BEATS AS FUNCTION OF FREQUENCY, LOUDNESS, AND THRESHOLD LEVELS A64-80978

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO A64-81191 HOT AND HUMID CONDITIONS

AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS N64-27433 AMRL-TDR-64-46

AUDITORY STIMULUS THRESHOLD SIGNAL TO NOISE RATIOS FOR FILTERED THERMAL NOISE SIGNAL PRESENTED IN THERMAL NOISE MASKER A64-16090

ACOUSTIC REFLEX OF MIDDLE EAR UPON STEP STIMULATION OF WHITE NOISE STUDIED BY VARIATION OF INPUT IMPEDANCE TO HUMAN SUBJECTS A64-23808

ACOUSTICAL IMPEDANCE PRESENTED TO EARPHONES BY HUMAN EAR IS CRITICAL DESIGN FACTOR OF ACCURATE ARTIFICIAL EAR A64-260 A64-26636

MODEL FOR INTERPRETING CATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF NOISE IN MASKING SIGNALS A64-27497

IMPROVEMENT OF PERIPHERAL VISUAL ACUITY IN BOTH EYES FOLLOWING AUDITORY STIMULATION A64-80189

ELECTROENCEPHALOGRAPHIC RESPONSE TO TACTILE AND AUDITORY STIMULATION IN MAN A64-80236

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP A64-80316 TIPE DISCRIMINATION - AUDITORY AND VISUAL TIME JUDGMENT A64-80358

SPATIAL CRIENTATION IN MAN VIA VISUAL, KINESTHETIC, LABYRINTHINE, AND CUTANEOUS SENSATIONS A64-80445

SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY QUES A64-806C4

CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

A64-80722

HEART RATE RESPONSE OF RAT TO AUDITORY STIMULI OF VARYING DURATION A64-80811

AUDITORY STIMULATION BY MODULATED ALTERNATING CURRENT APPLIED TO SKIN OF TOTALLY DEAF HUMAN

A64-B0833

SPINAL MCTOR RESPONSE TO ACOUSTIC STIMULATION IN LIGHTLY STRYCHNINIZED CAT A64-80962

HUMAN CONDITIONED REFLEX POTENTIAL EVOKED BY COMBINED STIMULI OF SOUND AND LIGHT MONITORED BY ELECTROENCEPHALOGRAPH

A64-81082

PRIMARY CEREBRAL CCRTEX POTENTIALS EVOKED BY ACCUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING HYPCXIA IN CAT A64-81083

SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS A64-81094

TEMPORARY THRESHOLD SHIFT AS FUNCTION OF FREQUENCY OF TEST TONE A64-81178

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE NEISE
AD-236942 N64-15889

BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT — ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS PIT-TR-416

RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUCITORY STIMULI IN CATS N64-27968

SPINAL MCTCR RESPONSES TO AUDITORY STIMULI NASA-CR-58548 N64-28833

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

A64-80203

A64-80662

CUPULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY AD-420256 N64-32375

AUDITORY TASK

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS
PHS-G-EM-05385
A64-80129

MAINTENANCE OF VIGILANCE IN AN AUDITORY KONITCRING TASK

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND MITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION INPUT A64-80618

ALERTEC EFFECTIVE THRESHOLD IN AUDITORY VIGILANCE TASK

EFFECTS OF COMPETITION BETWEEN PERIPHERY AND CENTER OF ATTENTION IN AUDITORY AND VISUAL TASKS
A64-81042

AUTOCORRELATION

AUTCCCRRELATION AND CROSSCORRELATION ANALYSIS OF MARKED RHYTHM IN HUMAN EEG DURING MUSCULAR ACTIVITY A64-81314

AUTOKINESIS

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE

OF CCULAR AND NECK MUSCLES

A64-80072

AUTOKINETIC ILLUSION - FREQUENCY AND DIRECTION OF MOVEMENT OF LIGHT STIMULUS RELATED TO SUGGESTION, EYE MOVEMENT, AND RELATIVE SENSORY DEPRIVATION

SUGGESTION - INFLUENCE OF INSTRUCTION ON PERCEPTION OF AUTOKINETIC EFFECT

A64-80617

OCULOMUSCULAR THEORY OF AUTOKINESIS

A64-80622

AUDITORY AUTOKINETIC EFFECT SHOWN INDEPENDENT OF TONE FREQUENCY AND INTENSITY A64-81306

ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION N64-11396

FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC ILLUSION TR-10 N64-26278

AUTOMATIC CONTROL

CF CYBERNETICS
AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN
BIOLOGICAL AIR REGENERATION SYSTEM

A64-25613

AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC VOICE PATTERN RECOGNITION A64-26640

CYBERNETICS ROLE IN SPACE FLIGHT INCLUDING CONTROL CIRCUITS FOR GUIDANCE AND ELECTRONIC EQUIPMENT AUTOMATION AND DEVELOPMENT A64-28379

ANALYSIS OF NERVE ACTIVITY IN INTACT NERVE BY CROSS-CORRELATION AND USE IN AUTOMATIC CONTROL SYSTEM A64-81039

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS JPRS-17544 N64-10695

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER
OF NUCLEOSIDE SUBSTANCES N64-12510

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS INTERNAL PROCESS SELF-REGULATION - CYBERNETICS
N64-12529

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS
JPRS-18127 N64-14613

FUNCTION OF FINGERS AND AUTOMATIC CONTROL OF ARTIFICIAL FINGERS FOR ENGINEERING

N64-15557

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS
N64-23779

AUTOMATIC CONTRCL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION

N64-24706

INTERVENING LEVELS OF CONTROL BETWEEN FULL MAMUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE AD-441953 N64-30199

AUTOMATIC DATA PROCESSING SYSTEM
HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR
INFCRMATION RETRIEVAL
JPRS-19100

MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR FEASIBILITY STUDY OF CONVERSION TO AUTOMATIC DATA PROCESSING SYSTEM TM-1210/000/01 N64-19919

AUTOMATIC PATTERN RECOGNITION
ELECTRIC RECORDING PROCEDURE FOR EXAMINING
ARTICULATION MOTIONS IN SPEECH IN ESTABLISHMENT OF
AUTCMATIC SPEECH RECOGNITION SYSTEM
A64-25601

AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL A64-80533 PHENOMENA BY COMPUTERS

PHYSICLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS

AUTOMATION

CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND N64-10527 TEXTURAL ANALYSIS

CYBERNETICS IN EDUCATION AND AUTOMATION

NA4-11058

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION N64-11C60

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS JPRS-22188 N64-11416

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS — CYBERNETICS N64-11917 JPRS-22345

CYBERNETICS AND AUTOMATION - HIGHER NERVOUS ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES N64-12621 FTC-TT-63-765/1

CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS N64-17242 JPRS-23554

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS N64-27C66 JPRS-25861

SA FINITE-STATE MACHINE MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS N64-15726 RADC-TER-63-528

MATRIX ANALYSIS OF TRANSFER STATE OF NONSYNCHRONOUS FINITE AUTOMATONS

N64-24690

SELF ACJUSTING SYSTEM WITH PATTERN

N64-247CO

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTRCL N64-28050 JPRS-26201

MOTOR VEHICLE ACCIDENTS OF FLYING AND NCNFLYING AIR FORCE PERSONNEL AS RELATED TO SELECTION AND 88808-888 TRAINING

AUTONOMIC NERVOUS SYSTEM
SA SYMPATHETIC NERVOUS SYSTEM
OF CENTRAL NERVOUS SYSTEM
HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS
SYSTEM FUNCTION DURING RELATIVE SENSORY A64-80235 DEPRIVATION

POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS SYSTEM STABILITY

COMPARISON OF AUTONOMIC AND SCMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY N64-23377 NASA-RP-215

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER

N64-23762

AUTORADIOGRAPHY MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIGGRAPHY N64-10069 JPRS-21629

AUTORACIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN WHITE PULP GERMINAL CENTERS OF NORMAL AND ANTIGENICALLY STIMULATED ANIMALS N64-20636 ORNL-3595

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE N64-29885 LFEN-NI.11 /ALPHA/

AUXILIARY POWER SOURCE S SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM

AVIATION

SA CIVIL AVIATION SA COMMERCIAL AVIATION CF AERONAUTICS

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL -PHYSIOLOGICAL SYNCOPE

REPT.-16

N64-33570

FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS

N64-18148 REPT.-252

AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES N64-15802 OF BIRDS

В

BACILLUS SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL A64-80463 STERILIZATION BY ETHLENE CXIDE

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD SHIELDED COSMIC RADIATION A64-8

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI INCCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE A64-80616 AND AT SEA LEVEL

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI N64-13474

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN N64-23278 BACILLUS SUBTILIS

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SPB N64-N64-25880

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION N64-28111

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559

BACK INJURY BACK INJURIES IN PILOTS AFTER CATAPULT EJECTION A64-12993

EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES A64-20698

WHIPLASH INJURY - MECHANICS, SITE OF INJURY, DIAGNOSIS, AND TREATMENT A64-80557

BACKGROUND NOISE CONTRAST THRESHOLDS MEASURED UNDER CONDITIONS OF LUMINANCE NOISE IN BOTH BACKGROUND AND TARGET AREA A64-20347

ROLE OF FEEDBACK IN PERCEPTION CF TONES WITH AND WITHOUT BACKGROUND GAUSSIAN NOISE A64-80857

BACTERIA

CF ACTINOMYCETES
CF BACILLUS
CF CLOSTRIDIUM

CF HYDROGENOMONAS

CF NITROBACTER

CF SALMONELLA

CF SPORE CF VIRUS

AIR PURIFICATION IN CLOSED ECOLOGICAL SYSTEM BY BACTERIA WHICH UTILIZES MOLECULAR HYDROGEN FROM ELECTROLYSIS OF WATER IN REDUCING CARBON DIOXIDE A64-18540 CONTENT

N64-22759

MICROBIOLOGICAL ANALYSIS OF IRON AND STONE
METEORITES, NOTING ABILITY OF BACTERIA TO
PENETRATE INTO CENTRAL REGIONS

A64-18628

HIGH ALTITUDE EFFECTS ON GROWTH AND EXISTENCE OF BACTERIA, NOTING SOLAR RADIATION EFFECT

A64-23255

BACTERIAL AND GREEN PLANT PHOTOSYNTHESIS REVIEWING HISTORY AND DEVELOPMENT A64-25318

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD

A64-80954

PHCTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA

A64-81036

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989

SULFATE REDUCTION BY BACTERIA UCRL-10966

N64-11987

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT SAM-TDR-63-75 N64-12340

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA FTC-TT-63-867/162 N64-12628

EARLY CNSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT PN-6117 N64-13204

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE AAL-TDR-63-13 N64-13662

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA JPRS-23054 N64-14529

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION JPRS-23283 N64-15293

ISOLATION OF FECAL BACTERIA AND FSTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS NASA-CR-55561 N64-15550

ECCLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS NASA-CR-55423 N64-16325

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON
AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTC-TT-62-1449/16264
N64-16396

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY SAM-TDR-64-4 N64-17963

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHCTOSYNTHESIZING BACTERIA
JPRS-24319 N64-18975

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY BM-RI-6423

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION NASA-CR-53734 N64-19577

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONOLITH OF MINERAL ICE FTD-TT-63-926/182 N64-21662

ANAEROBIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-50934
N64-22758

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT
NASA-CR-50516

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT NASA-TM-X-50873 N64-22777

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434

INHIBITION OF THICL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252 N64-26711

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TDR-64-35 N64-27432

GROWTH CHARACTERISTICS OF AUTOTROPHIC BACTERIA FOR BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN NASA-CR-58129 N64-27817

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN
BACTERIA - ESCHERICHIA COLI N64-28649

RADIOCHEMISTRY OF PYRMICINE BASES - ACTION OF RADIATION ON TRANSFORMING DEDXYRIBONUCLEIC ACID OF BACTERIA EUR-1646.F

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES
QTSR-1
N64-32514

NORMAL FECAL BACTERIAL FLORA OF MAN -MORPHOLOGICAL TYPE CULTURES NASA-CR-59257

N64-33288

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICKUURGANISMS JPRS-27146 N64-33345

BACTER IOLOGY

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN
CONDITIONS AND POSSIBLE EFFECTS ON EXTRATERRESTRIAL LIFE A64-24948

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS

N64-20946

BAILOUT

BACK INJURIES IN PILOTS AFTER CATAPULT EJECTION
A64-12993

OXYGEN CONSUMPTION DURING BAILOUT BETWEEN 45,000 AND 15,000 FEET A64-14014

PARACHUTING HISTORY A64-80145

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT FTD-TT-63-420 162 N64-29857

BALLISTIC MISSILE

OPTICAL LENSES AND PROTECTION OF RABBIT EYE

AGAINST BALLISTIC MISSILES

A64-81045

BALLISTIC TRAJECTORY

OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF
BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND
MA-5 FLIGHTS/ WITH CHIMPANZEES
NASA-SP-39

N64-12915

BALLISTICS

RELISTICS

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS

N64-28039

BALLISTOCARDIOGRAPHY COMPARATIVE BALLISTOCARDIOGRAPHIC INVESTIGATIONS OF REACTION TO COLORED LIGHT STIMULI IN MAN

BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS, TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND APPLICATION TO OTHER BRANCHES OF MEDICINE

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH N64-19015 NASA-SP-5007

ACCELEROMETRIC PRECORDIAL BALLISTOCARDIOGRAM IN HYPERTENSION N64-25054

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM N64-30493

BALLOCK RELATIONSHIP OF BALLOON DEVELOPMENT AND MANNED BALLOON FLIGHT TO STUDIES OF ATMOSPHERE - EFFECT OF HIGH ALTITUDE EXPOSURE A64-804 A64-80434

BALLOON FLIGHT LOUR FLIGHT RELATIONSHIP OF BALLOON DEVELOPMENT AND MANNED BALLOON FLIGHT TO STUDIES OF ATMOSPHERE - EFFECT OF HIGH ALTITUDE EXPOSURE A64-80434

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON **FLIGHTS** N64-20598 NASA-CR-53652

BAND PASS FILTER BANDPASS FILTERING EFFECTS ON LOUDNESS OF GATED AUDITORY SIGNALS RELATIVE TO UNFILTERED SIGNALS, RELATING DETECTABILITY SCALE AND LOUDNESS-MATCHING

RANG-BANG CONTROL HUMAN OPERATOR PERFORMANCE IN BANG-BANG CONTROL
SYSTEM IN PHASE PLANE, INTERPRETING RESULTS IN
TERMS OF SWITCHING LINES
A64-24

BARANY CHAIR BIOINSTRUMENTATION WITH BARANY CHAIR FOR RECORDING ELECTROENCEPHALOGRAM DURING ROTATION A64-80754

BARBITURATE CF MORPHINE CF PENTOBARBITAL SODIUM HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD A64-80927

BAROMETRIC PRESSURE ATMOSPHERIC PRESSURE

BAROTRAUMA FRONTAL MUCOCELE REVEALED BY BAROTRAUMA A64-80034

ORIGIN OF SINUSITIS AND OTITIS AND MECHANISM OF BAROTRAUMA IN AVIATORS AND TRAVELERS A64-80264

BARYCENTER S GRAVITY CENTER

> ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE BAT - ADAPTIVE ASPECTS A64-80212

MECHANISMS OF SPATIAL ORIENTATION IN BATS N64-33974 JPRS-27285

BATTERY S ELECTROLYTE

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE

THREATS - BAYES THEOREM AMRL-TDR-64-51

N64-33907

A64-80289

BEACON S SIGNAL

BEFHIVE PROJECT S PROPELLANT

BEHAVIOR CF CONDITIONED RESPONSE
CF HIBERNATION CF HUMAN BEHAVIOR CF LEARNING CF TRAINING PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MODALITIES

ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL A64-80321

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS N64-11258

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN N64-17498 STIMULATION

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR UR-ENG-49-7 N64-19921

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR ESD-TDR-64-193 N64-2153:

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR AF05R-64-1195

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR N64-32833 NASA-CR-129

BENZENE POISONING
OCCUPATIONAL CHARACTER OF LEUKEMIAS IN PERSONS
EXPOSED TO BENZENE
A64-80 A64-80366

HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT
AFTER BENZENE POISONING A64-8067 A64-80670

BENZENE POISONING IN RABBIT AND CHANGES IN IMMUNIZATION AND TYPHOID ANTIBODY LEVEL A64-80671

BENZENE INTOXICATION AS RELATED TO ENZYME ACTIVITY IN RAT AND RABBIT A64-80720

HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY FOLIC ACID AND CYSTEINE A64-80750

PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE POISONING IN RABBIT A64-81052

TOXIC EFFECT OF ISOPROPYL-BENZENE HYDROXIDE
APPLIED TO SKIN OF RABBIT
A6 A64-81100

TREATMENT OF BENZENE, TOLUENE AND XYLENE POISONING IN WOMEN AFTER FORTY A64-81246

BERYLLIUM POISONING BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCT TON FTD-TT-63-578/1&2 N64-22352

BERYLLIUM AND RELATION TO INDUSTRIAL SAFETY JPRS-27031

BETA RADIATION ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM

HUMAN FACTORS REFERENCE WORKS INCLUDING BOOKS, BIBLIOGRAPHIES, REPORTS AND JOURNALS

BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM

SCIENCES, QUALITY CONTROL, AND RELIABILITY

SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE

JPRS-24936

CF ABSTRACTS

BIBLIDGRAPHY

N64-18490

N64-19035

N64-29676

N64-30500

BIOLOGICAL SYSTEMS BIBLIOGRAPHY OF AEROSPACE MEDICINE IN JAPAN TID-3098, BK. 2 N64-19036 A64-80166 ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION BIBLIOGRAPHY ON COMPUTERS IN LIFE SCIENCES EFFECTS ON LIFE PROCESSES TID-3098/INDEX/ A64-80210 N64-19236 PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH A64-80708 DIFFERENT TESTS IN SAME INDIVIOUAL - BIBLIOGRAPHY DVI -310 PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL. AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY A64-80710 N64-20020 MOTOR SKILLS BIBLIOGRAPHY A64-81138 BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS BIBLIOGRAPHY OF AUDITORY AND VISUAL PERCEPTION SB-62-60 N64-20517 A64-81149 BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS EFFECT OF IONIZING RADIATION ON HEREDITARY KAPL-M-TL-1 N64-21844 MOLECULAR STRUCTURES - BIBLIOGRAPHY JPRS-21754 N64-10121 BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN BIBLICGRAPHY OF LITERATURE OF DETECTION SRB-63-2 N64-22372 INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING SID-63-755 N64-10137 PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY N64-22515 N64-10147 BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM — BIBLIOGRAPHY ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGHUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS CAR I-63-30 N64-22711 N64-10432 ICNIZING RADIATION EFFECTS ON PERFORMANCE RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY CAPABILITIES OF ASTRONAUTS - ANNOTATED BIBLIOGRAPHY N64-10453 SRB-63-13 N64-23365 LITERATURE REVIEW OF TELEVISION MICROSCOPY IN EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY BICLOGY AND MEDICINE NASA-CR-53806 N64-23393 JPRS-18229 N64-10501 MICROBIOLOGY - ANNOTATED BIBLIOGRAPHY RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY FTD-TT-63-1009/162 N64-23432 LIFE SUPPORT SYSTEMS - ANNOTATED BIBLIOGRAPHY N64-11668 AID-P-64-33 N64-24100 HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY BIBLIOGRAPHY OF BIOSENSORS SIC-63-354 NASA-CR-56347 N64-11821 N64-24116 LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING **HUMAN NUTRITION** N64-12443 ORGANIC MATERIAL SB-62-60, VOL. II N64-25511 FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY HASL-132 N64-12908 ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY BICLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE NASA-SP-7011 N64-25948 CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - AMNOTATED BIBLIOGRAPHY ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE SB-63-20 N64-13305 N64-26357 CANCER CHEMOTHERAPY - BIBLIOGRAPHY CHEMICAL AND RADIATION STERILIZING AGENTS -N64-15829 BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS NASA-CR-58123 N64-26372 BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING AMRL-TCR-63-121 N64-16095 RH-3398+F N64-27351 COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN N64-17491 INDUSTRY - ERGONOMICS N64-28104 BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH BIBLIOGRAPHY ON HUMAN FACTORS SYSTEM PROGRAM MRC-405 N64-17921 NASA-SP-7014 N64-28317 BIBLICGRAPHY ON TRITIUM RADIATION PROTECTION BIBLIOGRAPHY ON HUMAN ENGINEERING

N64-21285

A64-22078

RH-33988

TID-3098, BK. 1

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON

ONR-ACR-86

MEASUREMENT

AMR L-MENG-P-45

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE

BIRLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION MELANOGASTER CARRIED BY VOSTOK SPACECRAFT A64-23670 AAL-TER-63-34 PAPERS ON BIOASTRONAUTICS PROBLEMS FROM AMERICAN ANNOTATEC BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES, AND PRCTECTION AGAINST BIOLOGICAL EFFECTS ASTRONAUTICAL SOCIETY MEETING IN CLEVELAND IN DECEMBER 1963 TDCK-33500 MANNED SPACE FLIGHT PROJECTS AND RESEARCH IN SPACE 464-80037 COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL FLIGHT ECOLOGY SCIENCES - BIBLIOGRAPHY BIOASTRONAUTICS, PHYSIOLOGICAL PROBLEMS, TECHNOLOGICAL ASPECTS, SPACE FLIGHT OPERATIONS, AND PERSPECTIVES A64-80 SP-1025/C01/00 N64-32324 A64-80476 ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS -SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY PHYSIOLOGICAL RHYTHMS AND BIOASTRONAUTICS - A N64-32355 ATC-P-64-52 A64-80483 ANNOTATEC BIBLICGRAPHY ON LIFE SUPPORT SYSTEMS -MOBILE SUPPORT FACILITY FOR BIOASTRONAUTICS SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY A64-80545 N64-32356 ATD-P-64-53 INTERDISCIPLINARY APPROACH TO BIOASTRONAUTIC ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND A64-81034 RESEARCH BICLOGY N64-32407 NASA-SP-7011/02/ BIOTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA -BIDASTRONAUTICS BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING 463-10208 N64-32606 CAL-131 SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, WEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND JPRS-20168 NASA-SP-7011/03/ N64-32741 BIOLOGICAL RHYTHMS & ASTRONAUTICS BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR N64-19768 FTD-TT-64-26/1 TRAINING QUALITY CONTROL N64-32813 AD-448362 SPACE BIOLOGY AND MEDICINE N64-21866 JPRS-24943 BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS N64-33138 TID-3909 /SUPPL 2/ SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS N64-21867 BICARBONATE HYPERVENTILATION-ALKALOSIS AND BICARBONATE SPACE BIOLOGY AND MEDICINE N64-21868 CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR CXYGEN TRANSFER AND CONSUMPTION SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING N64-21869 PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN ACID AND PROTEINCID STUCIES DEFICIENCY N64-22775 N64-32326 NASA-CR-50483 DVL-225 BICTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR BILIRUBIN DETECTION OF LIFE IN SPACE NASA-CR-53096 PATTERN AND HODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN N64-14 N64-14 N64-23392 N64-14597 EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY N64-23393 NASA-CR-53806 BINARY CCCE FLIGHT MISSION CATA RECORDING IN BINARY CODE ON PROBLEMS OF SPACE BIOLOGY MAGNETIC TAPE OR PUNCHED PAPER TAPE N64-23734 N64-30536 .IPRS-25287 TRENDS OF SPACE BIOLOGY IN CONQUEST OF SPACE BINAURAL HEARING N64-23735 AUCIBILITY OF BINAURAL BEATS AS FUNCTION OF FREQUENCY, LOUDNESS, AND THRESHOLD LEVELS ARTIFICIAL HIBERNATION AND SPACE BICLOGY A64-80978 N64-23756 BINOCULAR VISION THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE EXTRACCULAR FEEDBACK IN BINOCULAR RIVALRY N64-23772 BIGLOGY AND MEDICINE A64-80744 SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED DEPTH PERCEPTION - LAWS OF BINOCULAR CORRESPONDENCE, DISPARITY, AND INTERSECTION OF IN SPACEFLIGHT JPRS-26231 A64-80888 VISUAL DIRECTIONAL LINES BIDASTRONAUTICAL CONTRIBUTIONS TO MEDICINE BINGCULAR RIVALRY AND STEREOSCOPIC ACUITY N64-30343 A64-81122 ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND MONOCULAR AND BINOCULAR COMPARISON OF APPARENT BIOLOGY A64-813C3 SIZE NASA-SP-7011/03/ BICASTRONAUTICS BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF COLLECTION OF PAPERS PRESENTED AT THE PROCEEDINGS
OF THE INTERNATIONAL CONGRESS ON MAN AND HYDROGEN AND FORMIC ACID TECHNOLOGY IN THE NUCLEAR AND SPACE AGE N64-13968 A64-11410 ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL BICASTRONAUTIC RESEARCH CONDUCTED BY U.S. AIR FUEL CELL REACTIONS N64-19311 A64-12986

MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA

BIOCHEMICAL FUEL CELL FCR ELECTROCHEMICAL ENERGY

PREDUCTION NASA-CR-54051

N64-25906

BIOCHEMICAL PROBE
RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL
STRESS
ARL-TDR-63-26
N64-14044

BICCHEMISTRY
SA BICCHEMICAL FUEL CELL
CF PHYSICCHEMISTRY
BICCHEMICAL NUTRITIONAL NE

BICCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN CN SPACE MISSION A64-24616

PSYCHCLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

N64-12571

PAPERS CN EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND CREANIC CHEMISTRY UCRL-10934

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS CBTAINED BY PHYSIOLOGICAL, BICCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717 N64-10713

BICCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR JPRS-12315 N64-10756

BICELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTROCE, & CHRONOPOTENTIOMETRIC STUDY NASA-CR-52607 N64-111C3

CEVELCPMENT OF BIOCHEMICAL SUBSTANCES BY MICROBICLOGICAL TRANSFORMATION FOR CHEMCTHERAPY JPRS-20041 N64-11132

BICCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLICMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA JPRS-2C298

BICCHEMICAL INVESTIGATION OF BLCOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673

BICCHEPICAL INVESTIGATION OF BLOOD OF DCGS AFTER SPACE FLIGHT N64-11674

RICCHFMICAL SELF-REGULATION MECHANISMS OF CELL -CYBERNETICS N64-12528

BICCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY JPRS-15995 N64-12570

BICSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY

BICGECCHEMISTRY OF SULFUR IN LITHOSPHERE AND BICGERIC CXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES JPRS-22672

BICCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN

IONIZING RADIATION EFFECT ON THIOPHOSPHATE
CXIDIZING ENZYME IN RAT LIVER - BICCHEMISTRY
N64-13503

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039

RACIOEICLCGY, EIOCHEMISTRY, PHARMACOLOGY, TCXICCLCGY, & RACIATION HAZARDS UCLA-520 N64-15341

PSYCHCPATHCLOGICAL AND BIOCHEMICAL EXPERIMENTS ON PSYCHOLOGICAL EFFECT PRODUCED BY ANTICHOLINERGICS JPRS-23296 N64-15622

BICCHEMICAL AND PHARMACOLOGICAL STUDIES OF CIMETHYLHYDRAZINE

AMRL-TDR-63-127

N64-16584

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIC-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBICLOGY N64-16909

CHEMISTRY OF BRAIN FUNCTION JPRS-24151

JPRS-24151 N64-18115
BIOCHEMISTRY - BICLOGICAL EFFECTS OF VARIOUS

CHEMICALS
JPRS-24050
N64-1841

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE

BICCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINGGEN, AND SYNTHESIS OF AMINO ACIDS

JPRS-24164

N64-19059

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152

RADIOISCTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

IMPROVEMENT OF BICCHEMICAL INSTRUMENTATION NASA-CR-51095 N64-22774

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBICLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION UCLA-12-529

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION UCRL-11387

INVESTIGATION OF FUNDAMENIAL NATURE OF BIOCHEMICAL SYSTEMS IN TERRESTRIAL ORGANISMS
NASA-CR-58547 N64-28894

HUMAN BIOCHEMICAL GENETICS
JPRS-26577

N64-32163

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY
JPRS-27063 N64-333

BIOCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION NASA-TT-F-9121 N64-33400

BIOCONTROL SYSTEM

CF MUSCULAR SYSTEM

CF RESPIRATORY SYSTEM

CONTROL SYSTEM OF EYE IN TARGET TRACKING

INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL

IMAGE MOTION SERVING AS FEEDBACK

A64-25747

ANALYSIS OF NERVE ACTIVITY IN INTACT NERVE BY CROSS-CORRELATION AND USE IN AUTOMATIC CONTROL SYSTEM A64-81039

BIOCOURIER PROJECT S LIFE SCIENCE

BIODYNAMICS
DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE
ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION
AND IMPACT ON PILCT EFFICIENCY
A64-27026

CYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY A64-80285 LANDINGS IN FRANCE

HISTORY OF BIOCYNAMICS ARL-TDR-63-10

N64-25331

BICELECTRICITY AS POWER FOR IMPLANTED ELECTRONIC A64-80537 DEVICES IN RAT

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BICELECTRIC CURRENT IN MUSCLES N64-11346 JPRS-18760

BICELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC N64-12517 CURRENT IN BRAIN - CYBERNETICS

BICELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY.... FTC-TT-63-231

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS N64-23661

BICELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER N64-23765 INFLUENCE OF G-FORCES

BICELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES N64-25655 FTC-TT-63-1194/18284

BIOELECTRICITY
BICELECTRIC ACTIVITY OF CEREBRAL CORTEX IN
RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS A64-25599 GE ELECTROENCEPHALOGRAMS

BICELECTRICITY AS POWER FOR IMPLANTED ELECTRONIC A64-80537 DEVICES IN RAT

ECTREMECHANICAL METHOD FOR CONTINUOUS REGISTRATION OF ACTION POTENTIALS AND FREQUENCY SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER A64-80674 BICLOGICAL VARIABLES

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BICELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS N64-30240

BICGENESIS

CF ABICGENESIS SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE CRIGIN OF LIFE, CLOSED ECCLOGICAL SYSTEMS, EFFECTS OF WEIGHTLESSNESS AND RADIATION, AND MEASURING A64-80124 INSTRUMENTS

PORPHYRINS FOUNC IN THE ORGUEIL METECRITE AND THEIR RELATION TO THE ORIGIN OF LIFE

A64-80348

CRIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL NONLIVING MATTER IN RELATION TO INFORMATION AND ENERGY TRANSFER A64-80368

BICGENIC AND ABIOGENIC EVIDENCE OF ORIGIN OF OIL 464-80371

SPACE RACIATION ROLE IN SYNTHESIS OF DRGANIC COMPOUNDS LEADING TO CREATION OF LIFE A64-80448

EXTRATERRESTRIAL LIFE AS RELATED TO ORIGIN OF A64-80530 TERRESTRIAL LIFE

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS A64~80592

FUTURE PLANS FOR SPACE PROBES IN RELATION TO COSMOLOGY, BIOGENESIS AND EXTRATERRESTRIAL LIFE

CRIGIN OF LIFE IN SPACE COMPARED TO THAT ON EARTH A64-80917 EVICENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON EARTH AND IN SPACE

ENVIRONMENTAL BIOPHYSICS, ORIGIN OF LIFE AND EXTRATERRESTRIAL MICROBIAL LIFE

A64-8108C

PARAMAGNETIC ELECTRON RESCNANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN

ORIGIN OF LIFE ON EARTH BY INTERACTION OF PROTEIN AND NUCLEIC ACID MACROMOLECULES

POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE -BIOGENESIS N64-32074 UR-656

RIGINSTRUMENTATION

SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE ORIGIN OF LIFE, CLOSED ECCLOGICAL SYSTEMS, EFFECTS OF WEIGHTLESSNESS AND RADIATION, AND MEASURING A64-80124 INSTRUMENTS

MAN-MACHINE SYSTEM AND BIGINSTRUMENTATION APPLICABLE TO MANNED SPACE FLIGHT RESEARCH -A64-80485

BIOINSTRUMENTATION WITH BARANY CHAIR FOR RECORDING ELECTROENCEPHALOGRAM DURING ROTATION A64-80754

UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT

A64-81021

INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY ANGULAR ACCELERATION NASA-CR-55617

BIDINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE N64-15353 NASA-CR-55615

BIBLIOGRAPHY OF BIOSENSORS NASA-CR-56347

N64-24116

BIDELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES FTD-TT-63-1194/18284

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION N64-26609

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM JPRS-25897

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, WEIGHTLESSNESS, ACCELERATION, AND BIGINSTRUMENTATION N64-29339 NASA-RP-306

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANCRECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION N64-29546 NASA-CR-58560

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIGINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY N64-31536 JPRS-26444

BIOLOGICAL CELL SA CYTOGENESIS CF CHROMOSOME

AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING TRANSITION PROCESSES DURING GROWTH OF CULTURES A64-25615

STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION

RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS JPRS-21619

N64-10118

N64-16326

N64-20233

BICLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY

JPRS-21894

N64-10517

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE UR-633 N64-10666

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRI-TER-63-72

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-22292

GELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER
CF NUCLECSIDE SUBSTANCES N64-12510

BICCHEMICAL SELF-REGULATION MECHANISMS OF CELL CYBERNETICS N64-12528

RACIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE JRS-22083

CYTCLCGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES CF IRRADIATED MAMMALS JPRS-22778

GELL REACTIONS UNDER EXTREME ENVIRONMENTAL
CONDITIONS
JPRS-22613
N64-13692

KINETIC THEORY OF ICN TRANSPORT ACROSS BIOLOGICAL CELL SURFACES NACC-MA-6325 N64-15C51

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL

IITRI-L6002-4 N64-15586
FACTORS AFFECTING CELLULAR DXYGEN CONSUMPTION AT

EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS

LCW OXYGEN TENSIONS

CELL CAMAGE IN RADIATION REACTION OF ANIMAL CREANISM N64-16906

CXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BICLOGY JPRS-23945

GLIAL AND CTHER NONNEURONAL CELL CONTROL OF NEURON ACTIVITY - RETINA N64-18832

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION JRRS-246C5 N64-20232

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607

RENEWAL & LCSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITCTIC INMIBITING TECHNIQUE WITH COLCHICINE 104-22C77

BEHAVIOR OF BICLOGICAL CELLS & SYSTEMS UNDER CONDITIONS OF WEIGHTLESSNESS NASA-CR-56482 N64-22420

FREE STREAM FRACTICNATION OF CELLS IN RAT BONE MARROW N64-22857

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERICCHLOROPHYLL IN CELLS N64-23434

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-2378

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS
AD-600641 N64-2592

DCSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS NASA RP-245 N64-27352

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY
JPRS-26558 N64-30777

ELECTROMETRIC AMPLIFIER FOR USE MITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS

N64-31545

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31829

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS
JPRS-26712 N64-32954

RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM — BIOLOGICAL CELL N64-32956

EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS
SYSTEM IN VIVO AND AT CELLULAR LEVEL
NASA-CR-58974
N64-33095

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453

BIOLOGICAL EFFECT
CF PHYSIOLOGICAL RESPONSE
VIBRATORY FORCE EFFECT UPON BIOLOGICAL SYSTEMS,
PARTICULARLY HUMAN ORGANISM
A64-12983

LOW LEVEL RADIATION EFFECTS ON INTEGRATED HUMAN BEHAVIOR AND ORGAN SYSTEMS A64-12984

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTOLOGICAL ORGANISMS

A64-13798

COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROCRGANISMS IN SIMULATED MARTIAN ENVIRONMENT A64-14461

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING COSMIC RADIATION EFFECTS ON GENETIC CHARACTERISTICS OF PLANT SEEDS. CELLS AND FRUIT FLIES A64-18630

BIOLOGICAL EFFECT OF WEIGHTLESSNESS AND ACCELERATION EXPERIENCED IN SPACE FLIGHT

A64-18743

ALCCHOL IN PILOTS INVOLVED IN FATAL GENERAL AVIATION ACCIDENTS A64-19138

STATIC MAGNETIC FIELD EFFECT ON BIOLOGICAL ENTITIES A64-19140

IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON PILOT A64-19143

BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM AND 5 MM AMPLITUDE UPON WATER METABOLISM OF HEALTHY MALE SUBJECT A64-19170

ELECTROCARDIOGRAMS AND PLETHYSMOGRAPHS USED TO STUDY BIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-19171

HIGHEST SURVIVAL TIME OF MICE LIVING IN PURE OXYGEN ENVIRONMENT IS 13 DAYS A64-19174

FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING A64-19489

BIOLOGICAL EFFECT OF LASER RADIATION ON ANIMAL

TISSUES

A64-20638

BICLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B CELLS 464-22813

THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE RERSONNEL INCLUDING THOSE IN TECHNOLOGY

PHYSICAL AND BICLOGICAL ACTIONS OF SMALL AIR IONS
INCLUDING DEVICES FOR MEASURING CONCENTRATION AND
MOBILITY A64-24167

BICLCGICAL EFFECTS OF HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS IN RELATION TO SPACE TRAVEL A64-24398

MICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE CHANGES RELATED TO FREQUENCY, FIELD INTENSITY AND EXPOSURE DURATION A64-25543

BUCK ON SPACE BIOLOGY AND AEROSPACE MEDICINE A64-25568

SPACE FLIGHT FACTORS IN SPACE BIOLOGY AND MEDICINE INCLUDING ACCELERATION, ISOLATION, TEMPERATURE FLUCTUATIONS AND PRESSURE GRADIENTS

A64-25569

BICLCGICAL EFFECTS OF PHYSICAL CONDITIONS IN SPACE FLIGHT INCLUDING RADIATION, VACUUM, TEMPERATURE, NOISE, VIBRATION, ACCELERATION, WEIGHTLESSNESS, FCCD AND ARTIFICIAL ATMOSPHERE A64-25570

BICLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEOPHYSICAL ROCKET AND MANNED SATELLITE OBSERVATIONS A64-2557

BICLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION METHODS A64-25578

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

A64-25585

PHYSICAL CONSTANTS OF VERMICULITE, PENOSHAMOTE, GERAMSITE AND PERLITE SUBSTRATES FOR CLOSED ECCLOGICAL SYSTEMS A64-25587

WICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

CCCURRENCE CF CROSSING OVER IN CHROMOSOMES OF MALE DROSCPFILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION A64-26813

BICLOGICAL EFFECT OF HIGH FREQUENCY ELECTRO-MAGNETIC FIELD A64-80014

BICS I RECCVERY VEHICLE DESIGN AND EXPERIMENTAL MISSICN A64-80275

BICLOGICAL EFFECTS OF MAGNETIC FIELDS IN THEIR RELATION TO SPACE TRAVEL - A REVIEW

A64-80482

SUBCELLULAR CHEMICAL AND PHYSICAL CHANGES IN BICLOGICAL SYSTEMS INDUCED BY IONIZING RADIATION A64-B0825

EFFECTS CF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN COG A64-80830

EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA PYRENCIDCSA A64-80866

ELECTRCCERMAL SKIN RESPONSE TO FATIGUE IN AIRLINE DISPATCHER A64-80873

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND PROBLEMS OF PROTECTION A64-80911

REVIEW OF COSMIC RAY EFFECTS ON BIOLOGICAL MATERIAL ON EARTH, IN AIR, AND IN SATELLITE A64-80912

BIOLOGICAL EFFECT ON THE ORGANISM FROM SOLAR RADIATION A64-80931

HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASOUND ON LABYRINTH AND TEMPORAL BONE A64-80979

BIOLOGICAL EFFECTS OF WEIGHTLESSNESS, AND ASSOCIATED PHENCHENA ON CARDIOVASCULAR SYSTEM IN HUMAN AND ON PLANT PROCESSES A64-81195

CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES JPRS-21-590 N64-10198

COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM JPRS-21521 N64-10326

EFFECT OF VIBRATICN, ACCELERATION, WEIGHTLESSNESS 6 BIOLOGICAL RHYTHMS ON MAN IN SPACE JPRS-18627 N64-10503

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936

BICLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS
ON HUMAN BODY AT HIGH ALTITUDES
N64-11700

N64-11700

BICLOGICAL EFFECT OF MICROWAVES ON ORGANISMS
JPRS-22580 N64-12357

BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS

JPRS-19163 N64-12432

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS SAM-TDR-63-57 N64-13852

TOTAL BODY X-IRRADIATION CF BIRDS OF DIFFERENT SPECIES
JPRS-23169 N64-15153

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA NASA-CR-55625 N64-15346

PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT
OF RADIATION
JPRS-23426 N64-16902

BICCHEMISTRY - BIOLOGICAL EFFECTS OF VARIOUS CHEMICALS JPRS-24050 N64-18410

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLICGRAPHY TID-3098, BK. 1 N64-19035

BICLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN ORDER OF MAGNITUDE OF MICRO-G NASA-CR-51180 N64-22776

BIGLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT FTD-TT-64-581/184 N64-26736

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS NASA-CR-56886 N64-27890

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN
MICROWAVE RANGE
.JPRS-26191 N64-28092

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES AD-600263 N64-28812

ANNETATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS

BICLOGY AND MEDICINE

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL

JPRS-18229

RESEARCH

CF THERMAL RADIATION AND RADIATION SOURCES, AND JPRS-17672 PRETECTION AGAINST BIOLOGICAL EFFECTS N64-32018 JPRS-18392 BICLCGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINC RATS N64-32347 BICLOGICAL SERIES JPRS-19571 BICLOGICAL EFFECTS OF HIGH ENERGY PROTON IRRADIATION OF HUMANS AND OTHER ANIMALS NASA-CR-5887 N64-33195 JPRS-22228 BICLOGICAL MODEL CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATED TO COMPUTER DIAGNOSIS A64-8073 A64-80733 THERMCREGULATION AND MATHEMATICAL MODEL OF HUMAN CYBERNETICS HEAT TRANSFER SYSTEM FOR ANALOG SIMULATION A64-81038 BICLOGICAL RHYTHM SA ACTIVITY /BIOL/ SA DIURNAL RHYTHM CF PERIODICITY /BIOL/ TID-4201 BIOLOGICAL RHYTHMS DEFINED TO DETERMINE ALTERATION DUE TO EXTRATERRESTRIAL SPACE ENVIRONMENT PHYSICLOGIC RHYTHM PERTINENCE TO HUMAN ENGINEERING FOR LIFE IN AEROSPACE WITH RESPECT TO ASTRONAUT SELECTION AND PERFORMANCE JPRS-22931 PERSISTENCE OF GEOPHYSICALLY DEPENDENT BIOLOGICAL RHYTHMS IN CONTROLLED SPACE FLIGHT ENVIRONMENT JPRS-22963 ISCLATION AND SENSORY DEPRIVATION PHENOMENA RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION JPRS-22994 OF BICLOGICAL RHYTHMS A64-80146 ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE BAT - ADAPTIVE ASPECTS A64-80212 ASD-TDR-63-136 PHYSICLOGICAL RHYTHMS AND BIDASTRONAUTICS - A REVIEW A64-80483 EQUATORIAL PACIFIC JPRS-23403 SLEEP CYCLES IN ROCENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64-80509 SEASONAL VARIATION OF ADRENAL CORTEX, LEUCOCYTES, AND REACTION TO ENVIRONMENTAL TEMPERATURE AMRL-TDR-63-121 A64-80899 JPRS-23749 EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE JPRS-18627 N64-10503 ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF NASA-CR-53290 HEART N64-30392 BIOLOGY /GEN/ MACHINES - BIONICS CF ANATOMY CF BOTANY ASD-TDR-63-946 CF GENETICS CF HYDROBIOLOGY CF MICROSIOLOGY CF PHYSIOLOGY CF PROTOBIOLOGY CF RADIOBIOLOGY BNL-854/T-340/ CF ZOCLOGY ELECTROMECHANIGAL METHOD FOR CONTINUOUS ELECTRUPECHANICAL METHOD FOR CONTINUOUS
REGISTRATION OF ACTION POTENTIALS AND FREQUENCY
SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER REPT -- 63-27 BICLOGICAL VARIABLES A64-80674 SECOND SYMPOSIUM ON OPERATION AND USE OF JPRS-24638 BICTELEMETRY IN SYERDLOVSK, USSR A64-81331 FTD-TT-63-664/1 PAPERS ON EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND ORGANIC CHEMISTRY UCRL-10934 N64-10154 SRB-63-2 LITERATURE REVIEW OF TELEVISION MICROSCOPY IN

N64-10629 BIOMETRICS & THE BIOLOGICAL SCIENCES N64-11043 TRANSLATIONS FROM ACADEMY OF SCIENCES USSR -SYSTEMIC ORGANIZATION IN THEORETICAL BIOLOGY N64-11869 APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE N64-12509 MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA N64-12516 BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520 ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BIOLOGICAL AND MEDICAL RESEARCH N64-12811 BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE N64-13714 RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING N64-14142 RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS N64-14143 PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS N64-15592 BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN N64-15730 BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION N64-16095 CYBERNETICS IN BICLOGY, MEDICINE, AND SPACE FLIGHT N64-17244 BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES N64-17601 INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND N64-18826 MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC SYSTEMS - HEURISTIC THEOREM PROVING N64-18838 BIOLOGY OF AGING USING IONIZING RADIATION STUDIES BICELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM N64-21680 MEDICAL AND BIOLOGICAL RESEARCH IN USSR N64-21851 BIGLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES N64-22049 BIONICS - BIBLICGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN N64-22372 EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE NASA-TM-X-54008 N64-22754

MEDICAL AND BIOLOGICAL RESEARCH

N64-10501

N64-22851

UCRL-11184

MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR FEASIBILITY STUDY OF CONVERSION TO AUTOMATIC DATA PROCESSING SYSTEM BIOLOGY AND MEDICINE TM-1210/000/01 FTD-TT-63-1013/162 N64-23694 BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE BIOLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS N64-23736 AD-428100 BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737 BIOMETRICS S REGRESSION ANALYSIS BICLOGICAL RESEARCH IN SPACE FLIGHT N64-23746 BIONICS CF CYBERNETICS LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL BICNICS - ENGINEERING CYBERNETICS USING KNOWLEDGE AND MEDICAL SCIENCES OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING N64-24070 AD-436723 TASKS ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND JPRS-17500 BICLOGY BIONICS - PROBLEMS, ACHIEVEMENTS, OUTLOOK N64-25948 NASA-SP-7011 FTD-TT-63-557/1&4 N64-12845 BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONCITIONED PHYSIOLOGY, BIOPHYSICS, & BIONICS N64-14523 JPRS-26060 INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON ASD-TDR-63-946 N64-18826 BICLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING N64-32164 JPRS-26845 N64-18827 COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS SP-1025/001/00 N64-32324 N64-18828 ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BICLOGY NASA-SP-7011/02/ N64-32407 MOLECULAR BIONICS N64-18837 ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY BIONICS - ITS METHODS AND RESULTS JPRS-24971 N64-21289 BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND NASA-CR-59307 N64-33513 REGULATORS AND APPLICATION TO ENGINEERING DESIGN BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES BIONICS - SELF-ADAPTIVE SYSTEMS, COMMUNICATION, JPRS-27237 N64-33675 AND CONTROL IN ANIMALS & ELECTRONIC MACHINES JPRS-25494 N64-26257 BIOLUMINESCENCE RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT RESISTANCE OF PLANTS DESIGN AND ENGINEERING - BIOINSTRUMENTATION N64-16950 JPRS-23735 NASA-CR-76 N64-26609 RECHECHANICS AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS BICMECHANICS OF HUMAN SPINAL COLUMN AT LOW N64-27059 464-80027 FREQUENCY VIBRATIONS PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS RICHEDICINE N64-32865 AD-604369 EFFECTS ON WORD INTELLIGIBILITY WHEN EXPOSED TO LOW FREQUENCY SINUSCIDAL VIBRATIONS WITHIN THE RANGE OF 6 CPS TO 20 CPS FOR SEMI-SUPINE TALKERS BIOPHYSICS CF RADIOBIOLOGY A64-10253 OXYGEN DISSOCIATION CURVES OF HEMOGLOBIN IN BLCOD SUBJECTED TO MATHEMATICAL ANALYSIS BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST A64-80127 N64-10009 BACKGROUND OF RADIATION EFFECT EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM BICMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER TRANSPORT PROCESSES IN ORGANISM - EQUATIONS AND N64-12226 AEDC-TCR-63-256 ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE A64-80562 OF NITROGEN NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH NASA-TM-X-51344 RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION N64-14866 MEDICINE, AND BIOPHYSICS JPRS-21868 N64-10328 BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION 1 AMS-3034 OF LIFE PHENOMENA N64-10329 JPR S-21966 APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL N64-16691 BIOPHYSICS - DEFINITION & METHODS OF INVESTIGATION JPRS-22830 N64-13353 RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION N64-17926 AMRL-TDR-63-103/1/ PHYSIOLOGY, BIOPHYSICS, & BIONICS N64-14523 ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG JPRS-23022 VOLUMES COMMUNICATION RIDPHYSICS - HEARING

A64-80247

A64-80249

N64-17884 DEGREE OF ABSORPTION OF IONIZED AIR IN UPPER RESPIRATORY TRACT OF MAMMAL AND BIRD BIOPHYSICS OF AMINO ACIDS & PROTEINS 464-80895 JPRS-24046 N64-18517 STIMULUS CONTROL FOR BIRD ORIENTATION AND BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NAVIGATION A64-81175 JPRS-24261 N64-19437 NEUROHUMORAL CHANGES IN BLOOD OF DOG AND DOMESTIC FOWL AT HIGH ALTITUDE A64-8127 DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL N64-19825 HIBERNATION IN MAMMALS AND BIRDS AAL-TDR-63-3 N64-13661 ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS JPRS-25651 N64-26086 TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES BIOPHYSICS RESEARCH IN USSR JPRS-23169 JPRS-25652 N64-28034 AVICIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS. OF BIRDS N64-15802 AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS JPRS-25733 JPRS-24357 N64-18980 BIOREGENERATION CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MEASURING PHOTOSYNTHESIS INTENSITY OF CHLORELLA MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH NASA-SP-5007 N64-19015 AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BICLOGICAL AIR REGENERATION SYSTEM BLACKOUT INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE A64-25613 SELF-SUSTAINED LIFE SUPPORT SYSTEM DEVELOPED ON BASIS OF SYMBIOSES EXISTING BETWEEN ANIMALS AND PLANTS AND BETWEEN AUTOTROPHIC AND HETEROTROPHIC A64-80508 LOSS OF CONSCIOUSNESS ASSOCIATED WITH POISONS.
INCLUDING CARBON MONOXIDE, AND VARIOUS DRUGS A64-27028 A64-80716 BIOREGENERATING SYSTEMS - USE OF HYDROGEN-OXIDIZING BACTERIA, CLOSTRIDIUM AND HYDROGENOMONAS IN REGENERATION OF EXPIRED AIR A64-80468 PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-1349 N64-13454 MASS GROWTH OF PLANKTON ALGAE DURING PURIFICATION ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING PROCESS IN BIOLOGICAL PONDS BLACKOUTS INDUCED BY ACCELERATION NADC-ML-6402 N64-20450 PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL -MONKEY, MACACA MEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA PHYSIOLOGICAL SYNCOPE REPT--16 N64-3357C BICSATELLITE PROGRAM A64-80261 RI INDNESS MAINTENANCE OF LIFE CONDITIONS. AND MEDICAL & CE VISION BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY SOVIET SATELLITE N64-11687 IONIZING RADIATION USNRDL-TR-670 N64-31175 CHCICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N6 N64-11688 BLOOD CF BODY FLUID BICSATELLITE PROJECT - MUTATION BY RADIATION AND CF HEART BIOPHYSICAL STUDIES CE HEMATOLOGY NASA-CR-50046 N64-22757 CF HEMODYNAMIC RESPONSE CF HEMOLYSIS BIOSENSOR SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC S BIDINSTRUMENTATION WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581 BIOSIMULATION CF ARTIFICIAL INTELLIGENCE BLOOD-ALCOHOL CONCENTRATION IN SIMULATED DAY AND NIGHT DRIVING AND ITS EFFECT ON VISION INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION A64-80009 MODELS A64-25605 ARTERIAL AND VENOUS BLOOD DXYGEN AND CARBON ANIMAL AND HUMAN PHYSIOLOGICAL PROCESSES DIOXIDE TENSIONS DURING BRIEF HYPERVENTILATION WITH NITROGEN IN MAN REPRESENTED BY RANDOM FUNCTIONS A64-80122 A64-25606 RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER ADAPTATION TO ALTITUDE OF BLOOD AND CEREBROSPINAL MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC SYSTEMS - HEURISTIC THEOREM PROVING FLUID N64-18838 BLOOD CHOLESTEROL AND LIPIDS IN WORKERS AT BIOTECHNOLOGY ALTITUDE A64-80182 ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS N6-N64-28104 OXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND

MAGNETIC FIELD EFFECT ON BODY MOVEMENTS IN BIRD A64-80872

N64-15803

BIOTIN

FORMS OF SOIL BIOTIN

ANALYSIS OF BLOOD GASES

OXYGEN UPTAKE AND BLOOD LACTATE RELATIONSHIP IN SUBJECTS OF DIFFERENT SCMATOTYPE DURING EXERCISE

ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN UNANESTHETIZED DOGS AT 21.000 FEET

A64-80519

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

ULTRASCUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLCOD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

NONESTERIFIED FATTY ACIDS IN VENOUS BLCOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPOCAPNIA, ALKALOSIS, AND PURE CXYCEN BREATHING A64-80633

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-80879

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO OXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

RELATIONSHIPS BETWEEN FOOD DEPRIVATION DURATION, BLCOD SUGAR LEVEL, AND MEAL COMPOSITION AND TASTE SENSITIVITY A64-80944

LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MCDERATE EXERCISE IN MAN A64-80982

HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND OXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN A64-80984

CORTICAL EXCITABILITY CHANGES IN CAT DURING
POSITIVE ACCELERATION AND BLOOD VOLUME
REDUCTION
A64-80988

CARDIAC DUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990

TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLOOD OF HUMAN ADULT AND NEWBORN

A64-81C1

N64-10769

NEUROHUMORAL CHANGES IN BLOOD OF DCG AND DOMESTIC FOWL AT HIGH ALTITUDE A64-81279

BLCOD, TISSUE, ENZYME, AND ISCENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

PRCPAGATION OF ULTRASONIC WAVES IN BLCCD OF DOGS -CYNAMICS OF ACUTE RADIATION SICKNESS

EFFECT OF SOLAR RACIATION ON HUMAN BLCCD AND CIRCULATORY SYSTEM

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION
CHANGES IN BLOOD OF PILOTS
BEOT -43-2
N64-10433

REPT.-63-2 N64-104

BLOOD GLYCOGEN METABOLISM IN MARMALS AFTER
IONIZING RADIATION

JPRS-18479

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF COGS JPRS-18644 N64-11316 EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD

N64-11609

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
AFTER SPACE FLIGHT N64-11673

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLGOD
N64-12754

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES JPRS-22180 N64-12764

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE RADIATION SICKNESS N64-12778

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD
CLEARANCE OF CARBON & BACTERIA IN MICE
AAL-TDR-63-1
N64-13629

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES
OF BLOOD & HEMODYNAMICS DURING USE OF
EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914
N64-14133

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA

N64-14589

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA

N64-14603

ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND DXYGEN DEFICIENCY N64-15044

CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD WITH SELECTED WHOLE BLOOD CONSTITUENTS SAM-TDR-63-92 N64-15743

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937

OXYGEN DISSOCIATION CURVE DETERMINATION -POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950

BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS JPRS-24164 N64-19059

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD
IN EARTH ORBIT
SSD-TDR-64-1 N64-19184

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/16264 N64-19220

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES

JPRS-24838

N64-24561

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI

N64-24562

GREWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLCCD

JPRS-25364

N64-25196

CXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHCLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOCD

N64-26550

VISUAL ACAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOC CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN JPRS-25464

N64-28425

POLARCGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE SAM-TDR-64-39 N64-29287

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RACIATION SICKNESS N64-30243

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS FTC-TT-64-242/1 N64-30703

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOCD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-31540

BLCOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE
NASA-TT-F-9116 N64-

BLCCD PCLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES

N64-33675

N64-33398

BLOCD CIRCULATION

SA BRAIN CIRCULATION
SA CORCNARY CIRCULATION
SA OCULAR CIRCULATION
CF CARCIOVASCULAR SYSTEM
CF CIRCULATORY SYSTEM
CHINCSTATIC TOLERANCE LOSS IN REDUCED GRAVITY
ENVIRONMENT, OBSERVING CHANGES IN REDUCED VOLUME

ENVIRONMENT, DESERVING CHANGES IN BLOOD VOLUME CIRCULATION AND NEUROADRENERGIC SYMPATHETIC NERVOUS SYSTEM A64-24

SENSITIVITY AND REACTION CAPABILITY OF
CRANICCEREBRAL CAVITY VASCULAR SYSTEM TO
LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF
BODY POSITION
A64-25604

CIRCULATORY AND RESPIRATORY EFFECTS OF DIFFERENT DXYGEN CONCENTRATIONS A64-80036

EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF ANESTHETIZED DOG TO HYPOTHERMIA

A64-80049

BLCOD CIRCULATION CHANGES IN LUNGS DURING EXERCISE
A64-ROCR2

EFFECT CF HYPOTHERMIA ON CIRCULATORY REFLEXES IN THE HUMAN A64-80084

HYPCXIC EFFECTS ON HEART AND CIRCULATION
A64-80101

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY

ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD CIRCULATION AND HEART FUNCTION IN MAN

A64-80319

A64-80195

REGULATION OF RESPIRATION AND CIRCULATION THROUGH OXYGEN TENSION IN MIXED VENOUS BLOOD A64-80355

URING SYSTEM OF NE

SKIN AND RECTAL TEMPERATURES AS RELATED TO CIRCULATORY DISTURBANCES A64-80405

TRANSPORT PROCESSES IN CRGANISM - EQUATIONS AND ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE OF NITROGEN A64-80562

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG A64-80611

EMCTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS WITH CENTRAL NERVOUS ACTION A64-B0653

BLCCD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS A64-80916

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION IN MAN A64-B0952

NERVOUS FACTORS CONTROLLING RESPIRATION AND CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF BLOOD FLOW A64-80957

PARTIAL STATE OF WEIGHTLESSNESS, INDUCED IN RABBIT BY IMMERSION IN SODIUM CHLORIDE SOLUTION AND EFFECT ON BLOOD CIRCULATORY SYSTEM

464-80961

CIRCULATORY RESPONSE TO PROLONGED STRENUOUS LEG EXERCISE A64-80996

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM OF BODY FUNCTION A64-81056

LOCAL REGULATION OF BLOOD FLOW IN SKELETAL MUSCLE OF DOG A64-8113:

CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND DXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN MAN AND DOG A64-81209

AUTOREGULATION OF BLOOD CIRCULATION IN SKELETAL MUSCLE OF DOG A64-81236

EVIDENCE FOR TISSUE DXYGEN DEMAND AS MAJOR FACTOR
IN AUTOREGULATION IN DOG A64-81238

OXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLOOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN RAT A64-81270

HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF PERIPHERAL BLCOD AND HYPOPHYSIS-ADRENAL SYSTEM IN MAMMALS AND MAN A64-81282

ACAPTATION TO HIGH ALTITUDE AND EFFECT ON HEMODYNAMICS OF HUMAN IN ASCENT TO HIGHER LEVELS A64-81283

ISOMETRIC CONTRACTION OF HAND AND EFFECT ON BLCCD SUPPLY TO FOREARM A64-81311

BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS PHYSIOLOGICAL CONDITIONS N64-14582

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN AD-411171 N64-25383

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES

JPRS-25275 N64-27501

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632

BLOOD COAGULATION

THROMEOPLASTIN, THROMBIN AND FIBRIN FORMATION IN BLOOD COAGULATION HEMOSTATIC PROCESS

JPRS-19219 N64-11318

TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING

SYSTEM AND ITS DISORDERS - STUDY SCHEME N64-12772 BLCOD TRANSFUSION & COAGULATION STUDIES N64-18520 PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION N64-18522 BLOOD FLOW SEASONAL VARIATION OF BLOOD AND PLASMA VOLUMES IN HEALTHY MEN IN FINLAND COMPUTATION OF BLOOD FLOW VELOCITY FROM PRESSURE PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC A64-80259 FLOWMETER INCOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC BLCOD FLOW DURING EXERCISE IN UPRIGHT MAN BLOOD FLOW RATE, VENOUS PRESSURE, AND OXYGEN EFFECT ON BLOOD FLOW RESISTANCE IN DOG FORELIMB A64-81237 SUBATMOSPHERIC EFFECT AND VENOUS PRESSURE ON BLCCD FLOW IN HUMAN FOREARM AND DIGIT A64-81239 DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES N64-17766 NASA-CR-53302 DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N N64-17946 DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN N64-20445 CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS N64-29989 EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLCCD FLCW N64-33524 AAL-TCR-63-35

BLOCD GRCUP
SA ALBUMIN
SA ERYTHROCYTE
SA FIBRIN
SA HEMATCPOIETIC SYSTEM
SA LEUKOCYTE
SA THRCMBIN
SA THRCMBIN
SA THRCMBOPLASTIN
INDIVICUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES
FOR TRANSFUSION
JPRS-224C1
BICSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN
FRACTICN AFTER PLUTONIUM-239 INJURY
N64-12571
CRIGIN & CEVELOPMENT OF RADIATION LESIONS IN BLOOD

PRCTEIN - INVESTIGATION USING THERMAL PROPERTIES
CF BLCCD SCLUTIONS N64-12777
CHRCNIC IRRADIATION EFFECTS ON LONGEVITY AND
PERIPHERAL BLOOD ELEMENTS OF MONKEYS

SAM-TDR-63-55 N64-13078

BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH

BEHAVICR OF EOSINOPHILIC BLOOD CELLS WITH DIFFERENT TESTS IN SAME INDIVIDUAL - BIBLIOGRAPHY DVL-31C N64-19799

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLCCD, RADIOSENSITIVITY, AND RADIATION THERAPY JRRS-26216 N64-30241

BLOOD PLASMA
CONCENTRATION OF NONESTERIFIED FATTY ACIDS IN
VENOUS BLOOD UNDER DIFFERENT EXPERIMENTAL
CONDITIONS
A64-22061

CEREBRCSPINAL FLUID AND PLASMA BICARBONATE AND ELECTROLYTES IN DOG IN ACUTE AND PROLONGED

HYPERCAPNIA

A64-80085

SPACE FLIGHT IMPLICATIONS OF PLASMA VOLUME RESPONSE TO WATER IMMERSION A64-80176

ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID PROPERTIES OF HUMAN SERUM A64-80360

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-80636

HEMOPOIETIC FACTOR IN BLOOD PLASMA OF RAT STIMULATED BY CONTINUOUS OXYGEN DEPRIVATION A64-80751

CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS IN DOG A64-80762

PROLONGED STARVATION EFFECT ON BLOOD PLASMA CONCENTRATION AND EXCRETION OF ADRENAL HORMCNES A64-80767

STRENUOUS EXERCISE AND WORKING CONDITIONS AND EFFECT ON BLOOD PLASMA AND RED CELL VOLUME

A64-81018

PROTEIN AND LIPID CHANGES OF BLOOD SERUM DURING NORMAL AGING IN MAN A64-81070

SODIUM-POTASSIUM ION SHIFT IN HUMAN BLOOD PLASMA AND ERYTHROCYTE A64-81271

PHYSICAL EXERCISE AND EFFECT ON BLOOD SERUM PROTEIN FRACTIONS IN ELDERLY PERSONS

A64-81332

PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS N64-12767

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197 N64-26782

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA
NASA-TT-F-9125 N64-33401

BLOOD PRESSURE CF HYPERTENSION CF HYPOTENSION

CF NANOMETER CF TONOMETRY

URINARY OUTPUT OF ADRENALINE AND NORADRENALINE,
PULSE RATE AND BLCOD PRESSURE OF SUBJECTS AFTER
WATER IMMERSION STUDIED, TO DETERMINE THE
SYMPATHOADRENAL RESPONSE AND ORTHOSTATIC TOLERANCE
A64-10252

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY
THROUGH PULSE WAVE VELOCITY MEASUREMENT
AIAA PAPER 64-216
A64-2048

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE AND VENCUS PRESSURE IN THE FOREHEAD

HYPOXIA EFFECTS ON BLOOD PRESSURE AND THYROID FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS
A64-23254

ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER
EXERCISE A64-80207

BLOOD PRESSURE EFFECTS OF CEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION A64-8027

PORTABLE ELECTROMANOMETER FOR DIRECT BLOOD PRESSURE MEASUREMENT UNDER FIELD CONDITIONS

A64-80295

BLCCD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR CURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMCRHAGE, AND VENCUS PRESSURE IN THE FOREHEAD

A64-805C0

EMCTICNAL STRESS EFFECT ON BLCCD PRESSURE AND PULSE RATE IN MAN A64-80641

CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS A64-80762

VESTIBULAR AND CARDIOVASCULAR RESPONSES TO WEIGHTLESSNESS AND ADAPTATION TO INCREASED GFORCES AS RELATED TO PULSE, BLOCD PRESSURE, RESPIRATION, AND ELECTROCARDIOGRAM

A64-80845

VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLCCC GAS TENSIONS, GLUCOSE CONCENTRATION, AND PLOOD PRESSURE

A64-80898

BLCCD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPCXIA, HYPERVENTILATION, AND HYPEROXIA A64-80926

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASCHOTOR REACTION IN MAN A64-80952

ELECTRONIC BLOCD PRESSURE SAMPLER AND PRINTER AS A64-81110

ELCOD FLCW RATE, VENOUS PRESSURE, AND CXYGEN EFFECT CN BLOOD FLCW RESISTANCE IN DOG FORELIMB A64-B1237

SUBATMCSPHERIC EFFECT AND VENOUS PRESSURE ON BLCCC FLCW IN HUMAN FOREARM AND DIGIT

A64-81239

BLCOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPCXIA AND HODIFICATION BY SYMPATHETIC-ADRENAL SYSTEM IN CAT

NORMAL VALUE OF BLOOD PRESSURE IN RESIDENTS OF KIRGIZIA MCUNTAINS A64-81284

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE CF DOGS CURING SPACE FLIGHTS - PHONOCARDIDGRAPHY N64-11705

CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION N64-14581

BLCOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA N64-146C2

TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF ARTERIAL BLOOD PRESSURE N64-1618

MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY NASA-SP-5CO6 N64-17838

BLCCD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES USING AUSCULTATORY TECHNIQUES NASA-CR-56024

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED ARTERIES NASA-ER-56470

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLCCD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTRCCARDIOGRAM N64-27125

N64-22425

N64-16184

BODY

S HUMAN BODY

BODY COMPOSITION /BIOL/ CF ANTHROPOMETRY PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND DXYGEN CONSUMPTION

A64-12995

ANTHROPOMETRIC EVALUATION OF BODY COMPOSITION A64-80020 THROUGHOUT LIFE

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR DISPLACEMENT AND HELIUM DILUTION PROCEDURES A64-80994

BODY FLUID CF BLOOD CF WATER PROLONGED WEIGHTLESSNESS AND DISUSE EFFECTS ON CARDIOVASCULAR DECONDITIONING AND BODY FLUID A64-28340

ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN SUBARCTIC SURVIVAL SITUATIONS A64-80167

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
NASA-TT-F-9120
N64-333 N64-33399

BODY KINEMATICS MAGNETIC FIELD EFFECT ON BODY MOVEMENTS IN BIRD A64-80872

BODY MEASUREMENT WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS N64-32066

BODY NEASUREMENT /BIOL/ PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND DXYGEN CONSUMPTION

A64-12995

ANTHROPOMETRIC EVALUATION OF BODY COMPOSITION THROUGHOUT LIFE A64-80020

ESTIMATION OF BODY WEIGHT ACCORDING TO HEIGHT AND THORACIC PERIMETRY IN HUMAN A64-8112 A64-81128

BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION A64-81184

PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE, AGE, AND SEX IN ADULT HUMAN A64-8005

PHYSICAL AND PHYSICLOGICAL CHARACTERISTICS OF CHILDREN LIVING AT HIGH ALTITUDE

SIZE CONSTANCY EFFECT ON DECREMENT OF CRITICAL FLICKER FUSION WITH REDUCED RETINAL SIZE OF STIMMER

BODY SWAY TEST AGING EFFECT ON POSTURE CONTROL

A64-80185

BODY TEMPERATURE

BODY TEMPERATURE /RIGH/ SA HYPERTHERNIA SA HYPOTHERMIA SA SKIN TEMPERATURE /BIOL/ SA THERMOREGULATION PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL COOLING, GIVING OBSERVATIONS MADE ON RATS AND A64-14995

DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM USING ANALOG COMPUTER TO SIMULATE

PHYSICIOGICAL RESPONSE

A64-25320

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED. APPLYING CRITERION BASED ON PULSE BEAT AND BODY

TIME DISCRIMINATION RELATED TO BODY TEMPERATURE AND PULSE RATE IN HOT ENVIRONMENT

A64-80064

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A A64-80121 NEPALESE PILGRIM

CARBON DICXIDE INHALATION AND SWEATING CURING EXPOSURE TO DIFFERENT TEMPERATURES IN ENVIRONMENTAL CHAMBER A64-8C171

SKIN AND RECTAL TEMPERATURES AS RELATED TO CIRCULATORY DISTURBANCES A64-80405

DIURNAL VARIATION IN BODY TEMPERATURE CURING RAPID AIR TRANSPORTATION ACROSS LONGITUDES

DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN ROUTINE LIGHTING A64-8 A64-80591

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES A64-80697

FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PRCTECTIVE MODE OF CHLORPROMAZINE

A64-80729

METABOLIC RESPONSE TO COLD AND RELATIONSHIP DETWEEN ECCY TEMPERATURE AND BASAL METABOLIC RATE
CF UNDERFEE RAT A64-809C A64-80903

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE A64-81CC8

PH-TEMPERATURE CONVERSION FACTOR AND CARBON DICXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL A64-81010

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM A64-81056 OF BODY FUNCTION

PHYSICLEGICAL CHANGES IN HUMAN CRGANISM ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC **DURING** A64-81103

CXYGEN SATURATION AND TEMPERATURE OF BRAIN TISSUES UNDER CONDITIONS OF PHYSIOLOGICAL STRESS DETERMINED BY POLAROGRAPHIC METHOD IN DCG

A64-81256

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING A64-81319 IN COLD WATER

REDUCED SET POINT TEMPERATURE IN EXERCISING DOG AMRL-TER-63-93

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHESPHATE CENTENT

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT N64-13633 AAL-TCR-63-40

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE N64-17236

EDCY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-22879

BODY VOLUME /BIOL/
SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR DISPLACEMENT AND HELIUM DILUTION PROCEDURES A64-80994

BODY WEIGHT

INSENSIBLE WEIGHT LOSS OF CLOTHED RESTING SUBJECTS IN COMFORT ZONE TEMPERATURES

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

BODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE A64-80552

PULMONARY FUNCTION, DXYGEN CONSUMPTION AND PULSE RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE A64-80728

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS A64-80771

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO CCLC A64-80 464-80783

ABCOMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING ORGANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION

A64-80824

LEARNING SET PERFORMANCE, VISION, HEARING, LOCCMOTION, EATING, BCCY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO A64-80834 RAPID DECOMPRESSION

EFFECT OF PROLONGED ACCELERATION ON EATING, BODY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

CALCRIC EXPENDITURE DURING PHYSICAL EXERCISE AND RELATIONSHIP TO VENTILATION AND BODY WEIGHT A64-80877

FALLING EFFICIENCY AT SCRTING CARDS AND WEIGHT LCSS DURING ACCLIMATIZATION AT 19,000 FEET IN A64-80915 HIMALAYAS

TIME SPENT AT ALTITUDE, AGE, AND WEIGHT AS RELATED TO DECOMPRESSION SICKNESS A64-80950

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HCRMONE TREATED HAMSTER A64-80991

ESTIMATION OF BODY WEIGHT ACCORDING TO HEIGHT AND A64-81128 THORACIC PERIMETRY IN HUMAN

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

BONE

SA JOINT /BIOL/ CF SKELETON WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTOLITH, AND A64-80645 SEMICTROULAR CANAL

HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASOUND ON LABYRINTH AND TEMPORAL BONE A64-80979

ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE N64-12497

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS NASA-CR-55313

BONE MARROW

CF LEUKEMIA PROTECTIVE MECHANISMS FOR ANOXIA ON BONE MARROW GRAFTS IN WHOLLY IRRADIATED MICE WITH IONIZING A64-24100 RADIATION

LEUKOCYTE AND BCNE MARRCW PROLIFERATION CHANGES DURING STARVATION A64-80 A64-80650 GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

MITCYIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTGRADICGRAPHY

JPRS-21629 N64-10C69

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS JPRS-22591 N64-12149

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE PARROW DURING ACUTE RADIATION SICKNESS

N64-12781

FLUCRESCENT MICROSCOPIC INVESTIGATION CF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782

SECIMENTATION RATES OF NUCLEATED AND NONNUCLEATED CELLS OF NORMAL RAT BONE MARROW

N64-1521

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHCLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056
N64-18056

BONE MARROW TRANSPLANTATION AFTER WHOLE-BCDY IRRADIATION OF RAT

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BOCY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISCTOPE AND POSITRON SCINTILLATION CAMERA

FREE STREAM FRACTICNATION OF CELLS IN RAT BONE MARROW N64-22857

CHANGES OF FEMATOPOLETIC TISSUE IN DOG WITH ACUTE RACIATION SICKNESS AFTER BONE MARROW TRANSPLANT JPRS-25251 N64-26055

BOCLEAN ALGEBRA

PUMAN CPERATOR PERFORMANCE IN COMPLEX MAN-MACHINE SYSTEM SIMULATED, USING BOOLEAN ALGEBRA AND DIGITAL COMPUTER A64-24822

BOOK

5 SENIC BEEN

BORANE

S PENTABORANE

BCTANY

AUTCMATED SYSTEM FOR STUDYING EFFECT OF MINERAL NUTRIENT SOLUTION COMPOSITION ON PHOTOSYNTHESIS IN HIGHER PLANTS A64-25616

IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FCCD - BOTANY JPRS-24187 N64-18968

BOUNDARY LAYER

S BOUNCARY LAYER FLOW

BOUNDARY LAYER FLOW

BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS
AIAA PAPER 64-217 A64-1885

BRADYKININ

BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER EXPERIMENTAL CRUGS/ AS RELATED TO DECOMPRESSION SICKNESS IN MICE A64-80687

BRAIN

SA INTRACRANIAL PRESSURE

CF CEREBRAL CORTEX
CF CEREBROSPINAL FLUID

GF ELECTROENCEPHALOGRAPHY

CF HYPCTHALAMUS

BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS
DURING HIGH ALTITUDE EXPOSURE A64-13754

BRAIN CXYGEN TENSION IN DOGS DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80043

COLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND ELECTROSHOCK SEIZURES A64-80102

BRAIN OXYGEN TENSION IN DOG DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80359

MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS EVOKED BY LOUD NOISE IN GUINEA PIGS

A64-8C367

NCISE EFFECT ON CONDITIONED REFLEXES, BRAIN FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND RABBIT A64-80559

OXYGENATION OF BRAIN TISSUE IN DOG DURING BREATHING OF VARIOUS CONCENTRATIONS OF CARBON DIOXIDE AND OXYGEN A64-80793

PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS A64-E0814

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT

A64-80871

GLUCOSE AND CAREOHYDRATE METABOLISM IN ANOXIC-ISCHAEMIC RAT BRAIN

XIC-ISCHAEMIC RAT BRAIN A64-81C48

RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER

A64-81053

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA A64-81073

POLAROGRAPHIC METHOD FOR STUDY OF DXYGEN SATURATION OF BRAIN TISSUE IN DOG

A64-81254

OXYGEN SATURATION IN BRAIN TISSUE IN DGG INHALING VARIOUS GASEOUS MIXTURES A64-81255

OXYGEN SATURATION AND TEMPERATURE OF BRAIN TISSUES UNDER CONDITIONS OF PHYSIOLOGICAL STRESS DETERMINED BY POLAROGRAPHIC METHOD IN DOG A64-81256

--- --

PERMEABILITY OF HEMATCENCEPHALIC BARRIER TO INCRGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS JPRS-21628 N64-10119

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS
OBTAINED BY PHYSICLOGICAL, BIOCHEMICAL, AND
STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-17717
N64-1071

BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR JPRS-18315 N64-10756

PHYSIOLOGICAL CONSCIOUSNESS OF BRAIN
JPRS-20270 N64-11223

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573

SECOND ANNUAL REPORT OF BRAIN RESEARCH INSTITUTE

INCLUDING BIBLIOGRAPHY OF PUBLICATIONS

N64-12967

SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA
N64-14580

CXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL N64-14583

PASSAGE CF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA

SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA - MORPHCLCGICAL CHANGES N64-14596

HYPCXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE SYMMETRIC LESIONS N64-14599

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOC - HYPOXIA N64-14603

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT DXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604

HISTOCHEMICAL CETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINC ACID CONSUMPTION IN MONKEYS AFTER HYPOXENIA

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS N64-1637

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS CPPORTUNITY TO OBTAIN REINFORCING BRAIN

PHYSICCCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR JPRS-24119 N64-18085

CHEMISTRY OF BRAIN FUNCTION JPRS-24151

STIMULATION

N64-18115

N64-17498

LIMIT CF GENETIC CONTROL OF BRAIN STRUCTURE
N64-18834

BICPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS
JPRS-24261 N64-19437

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN

N64-19440

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, &
GEREBRCSPINAL FLUIC
1PST-990
N64-22203

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN
TENSION IN BRAIN TISSUE
FTC-TT-63-1215/16284 N64-22665

RACIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

MECHANISM OF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES
N64-25133

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL ANALYSIS N64-25134

IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL

HEMISPHERES TO SPATIAL PERCEPTION

N64-25135

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS
OF RATS
UCRL-11179
N64-25204

BLCOD CIRCULATION IN BRAIN OTS-63-11171

N64-26351

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS NASA-TT-F-230 N64-26784

VARIOUS STUDIES OF BRAIN REACTIONS IN MONKEYS
NASA-CR-58038 N64-27284

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY
IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/162 N64-29278

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA SAM-TDR-64-44 N64-29288

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR AFOSR-64-1195 N64-30465

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION N64-31458

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001
N64-33041

MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN FTD-TT-63-1119/18284 N64-33970

BRAIN CIRCULATION

RECORDING METHOD FOR MONITORING BRAIN AND EYE CIRCULATION A64-12942

CRANIAL BLOOD FLOW MEASURING TECHNIQUE USING ISOTOPE BOLUS PROPELLED TOWARD HEART FROM VENIPUNCTURE A64-80258

INHALATION OF 95 PERCENT OXYGEN AND 5 PERCENT CARBON DIOXIDE - EFFECT ON CEREBRAL BLOOD FLOW A64-80567

ATRIAL FIBRILLATION IN FLYING PERSONNEL

A64-80659

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPOXIA IN ENVIRONMENTAL CHAMBER

A64-80759

CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION N64-14581

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS PHYSIOLOGICAL CONDITIONS N64-14582

BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANDXIC SURVIVAL N64-14584

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO ANOXEMIA N64-14587

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770

BLOOD CIRCULATION IN BRAIN OTS-63-11171

N64-26351

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLCW USING THERMISTOR FTC-TT-63-1175/16264

N64-27840

A64-27739

BRAIN INJURY HYPERCXIA EFFECT ON PROTEOLYSIS OF BRAIN OF WHITE RATS FCLLOWING CXYGEN EXPOSURE OF 6 AND 3.5 ATMOSPHERES FOR VARYING TIME A64

NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANOXIA IN GUINEA PIGS A64-80218

ANCXIA VARIOUSLY INDUCED AND BRAIN DAMAGE IN GUINEA PIG A64-80219

TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-80893

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND

N64-15206

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND MUSCLE A64-R0365

VISUAL-DCULOMOTOR TRACKING IN MAN - CHARACTERISTIC ELECTROCORTICAL ACTIVITY A64-80494

SLEEP CYCLES IN ROCENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64-80509

LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN A64~80651

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN

STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROWIDE AND PHENAMINE N64-31342

BREATHING S RESPIRATION

BREATHING MODE GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVECLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935

BREMSSTRAHLUNG X-RAY

BRIGHTNESS CF LUMINESCENCE

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BRIGHTNESS DISCRIMINATION - VISUAL PERCEPTION CAL-VH-8137-F N64-18937

BROMICE

CF ARECOLINE HYDROBROMIDE
RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE
AND AMINOETHYLISOTHIURONIUM DIBROMIDE SAM-TER-64-40 N64-32031

BRONCHIAL TUBE BRENCHIAL MUSCLE FUNCTION

A64-80956

BURN INJURY PILOCARPINE MIOSIS AS CHORIORETINAL BURN PRETECTION FROM HIGH INTENSITY LIGHT TO STUDY VISUAL ACUITY A64-22056

ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN CASES IN FRANCE A64-80284

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREM MEMBERS A64-80327

VARIOUS ASPECTS OF BURN INJURIES JPRS-21680

N64-10006

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008

BICMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N6 N64-10009 THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10C10

TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS IMMEDIATELY AFTER SEVERE BURN INJURY JPR 5-21 999

BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION, HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA JPRS-20298 N64-11224

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES JPRS-22180 N64-12764

TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL INFUSION OF BLOCD SUBSTITUTE AT LOW PRESSURE

PROPERDIN CONTENT IN BLCOD SERUM OF PATIENTS WITH SEVERE BURNS N64-12767

METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT N64-12770

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL AD-426228 N64-14324

SURGICAL TREATMENT OF BURN INJURIES JPRS-23933 N64-18398

PATHOGENETAC MECHANISMS IN DEVELOPMENT OF BURN SICKNESS JPRS-24338 N64-18976

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY FUNCTION OF KIDNEYS IN BURN INJURY N64-27324

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS CASUALTY SITUATIONS N64-307 N64-30754

BURNER ABSORPTION BED, CATALYTIC BURNER, AND FILTERING System for trace contaminant removal

BURNING PROCESS BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780

BUTYRIC ACID PHYSIOLOGY AND BICCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE

N64-18672

N64-24626

FTD-MT-63-49

CABIN ATMOSPHERE HUMIDITY IN THE CABIN OF A DOUGLAS DC-8 AIRLINER DURING COMMERICAL FLIGHT A64~800

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY NASA-SP-47 N64-31219

CAFFFINE PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASCDILATING DRUGS A64-80628

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO DXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-8: A64-80883

DISTURBANCES IN HUMAN CALCIUM METABOLISM DUE TO WEIGHTLESSNESS AND IMMOBILIZATION A64-24972

PHCTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE

464-80808

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETCN N64-12442 JPRS-22295

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-1 N64-12444

BEC REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS N64-14898 NASA-CR-55313

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64 N64-15216

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN SPACE NASA-CR-59003 N64-33044

DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS JPRS-26888 N64-33854

CALCIUM PHOSPHATE QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI

CALIBRATION STANDARDIZATION

CALORIC REQUIREMENT CALORIC REQUIREMENTS OF MAN UNDER SPACE FLIGHT CONDITIONS 464-80039

OTOLITH INFLUENCE ON NYSTAGMUS EVOKED BY CALORIC A64-80242

THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT RADIAL ACCELERATION IN PIGEON A64-8 A64-81024

CALCRIMETRY CF TEMPERATURE MEASUREMENT ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMOREGULATOR N64-13149 ASAE PAPER 62-422

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RACIATION EMITTED BY ISOTOPES N64-

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR N64-18085 JPRS-24119

CAPACITANCE ELECTRIC PROPERTY

CAPE KENNEDY OCCUPATIONAL MEDICINE AT CAPE KENNEDY

A64-80390

CAPILLARY CIRCULATION CXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL N64-14583

DETERMINATION OF TEMPERATURE OF PULMONARY N64-17932 CAPILLARY BLOOD

CAPSULE

ESCAPE CAPSULE MERCURY CAPSULE SPACE CAPSULE

CARAVELLE AIRCRAFT SUD-AVIATION SE-210 AIRCRAFT

CARBOHYDRATE CF GLUCOSE CF GLYCOGEN CF NUCLEOSIDE CF POLYSACCHARIDE CARBOHYDRATE SYNTHESIS IN SPACECRAFT CABIN BY FORMALDEHYDE POLYMERIZATION REACTION

A64-25608

DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS A64-80089

PHOTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE A64-80808

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL 464-80884

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM NASA-CR-52972

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE FTD-TT-63-193/1 N64-23296

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN N64-23774 SPACESHIP CABIN

CARBOHYDRATE METABOLISM
BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS
DURING HIGH ALTITUDE EXPOSURE
A64-A64-13754

PHYSICAL STRESS EFFECTS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN MICE A6 A64-80015

HYPOXIA-INDUCED CHANGES IN ACTIVITY OF TRANSAMINASES IN ORGANS AND BLOOD OF RABBITS -CARBOHYDRATE METABOLISM A64-8

BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO CENTIMETER WAVES FOR 24 HOURS A64-8071 A64-80715

SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND DOG EXPOSED TO PROLONGED VIBRATION A64-80725

EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS RELATED TO GLUCOSE UTILIZATION A6-A64-80732

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY A64-80815

PHOTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA A64-81036

GLUCOSE AND CARBOHYDRATE METABOLISM IN ANDXIC-ISCHAEMIC RAT BRAIN A64-81048

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN COLC EXPOSED RAT A64-81065

24-HOUR PERIODICITY OF MITOTIC DIVISION OF CELLS AND GLYCOGEN CONTENT IN LIVER OF RAT A64-81307

FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER GRADED PHYSICAL STRESS A64-81327

CARBON

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS FTD-TT-62-1449/18284 N64-16396

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY SAM-TDR-64-4 N64-17 N64-17963

CARBON COMPOUND

BICARBONATE

CARBON DIOXIDE

CARBON MONOXIDE

HYDROCARBON

CARBON DICKIDE

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSICLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION

A64-80016

CARBON DIOXIDE INHALATION AND SWEATING DURING EXPOSURE TO DIFFERENT TEMPERATURES IN ENVIRONMENTAL CHAMBER A64-80171

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

A64-80232

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, EXYGEN RICH ATMCSPHERE A64-80323

DECOMPRESSION SICKNESS IN RAT RELATED TO BODY FAT
A64-80328

PARTIAL PRESSURE CHANGES OF OXYGEN AND CARBON DIOXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN A64-80431

QUANTITATIVE INTERACTIONS OF INCREASED CXYGEN AND CARBON DIDXIDE TENSIONS UPON RESPIRATION IN MAN

BLCOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

RELATIONSHIP BETWEEN RESPIRATORY WORK AND ARTERIAL CARBON DIOXIDE TENSION A64-80456

INHALATION OF 95 PERCENT DXYGEN AND 5 PERCENT CARBON DIOXIDE - EFFECT ON CEREBRAL BLOCD FLOW A64-80567

CARBON DIOXIDE CONCENTRATION AS RELATED TO PHCTOSYNTHESIS IN MASS CULTURE OF ALGAE

A64-BC6C8

CARBON DIOXIDE EFFECT ON PULMONARY VASCULAR RESISTANCE A64-B0701

REPRODUCIBILITY OF TRANSIENT RESPONSE TO CARBON DICKIDE INHALATION IN MAN A64-80766

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS

A64-80941

TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLCCD CF HUMAN ADULT AND NEWBORN

A64-81C12

CARBON DIOXIDE MEASURING SYSTEMS FOR MANNED SPACECRAFT A64-B11C9

CARBON DIOXIDE VENTILATORY STIMULUS AND RELATION TO NEUROGENIC VENTILATORY STIMULUS OF MUSCULAR EXERCISE A64-81219

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORICE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783

RATIO CF PURIFYING CIRCULATION FLOW TO BREATHING FLCW FCR MAINTAINING ACCEPTABLE CARBON DIOXIDE CONCENTRATION IN SPACE CABIN ATMOSPHERE RAE-TM-ME-273 N64-133

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591

CARBON DIOXIDE CONTENT OF VENCUS & ARTERIAL BLOCK AND CARDIAC OUTPUT N64-17933

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEDLAR REGION CURING DIVING & ADVERSE BREATHING MODES N64-17935

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEDLUS AND ARTERY REGIONS

N64-17940

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOGD N64-17950

CARBON DIOXIDE CHEMICAL REDUCTION UNIT FOR CONTINUOUS ZERO GRAVITY OPERATION NASA-CR-54060 N64-20679

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH DXYGEN-LOW CARBON DIDXIDE GAS MIXTURE AT REST AND DURING EXERCISE

N64-22170

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLORCPSEUDOMCNAS ETHYLICUM N64-23433

CARBON DIOXIDE REMOVAL, CONVERSION, AND DXYGEN REGENERATION N64-24627

CARBON DIOXIDE REDUCTION SYSTEM AMRL-TDR-64-42

N64-26906

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE ARRL-TDR-64-35 N64-27

DXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS -PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE ASR-3 N64-30570

CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE SSD-TDR-64 25 N64-31979

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/16264 N64-33102

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA NASA-TT-F-9125 N64-3340

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495

CARBON DIOXIDE ACCLIMATIZATION
RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE
A64-80109

CARBON DIOXIDE REMOVAL
CARBON DIOXIDE MANAGEMENT IN SPACECRAFT
ATMCSPHERES USING MOLECULAR SIEVES AND REDUCED
TEMPERATURE
A64-80536

SUPEROXIDES FOR OXYGEN PRODUCTION AND CARBON DIGXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS
A64-80831

DEPRESSION OF OXYGEN CONSUMPTION AND CARBON DIOXIDE REMOVAL IN PRESSURE BREATHING UTILIZING MASK A64-81265

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS
FDL-TDR-64-67, PT. I N64-31927

CARBON DIOXIDE TENSION
ARTERIAL AND VENOUS BLOOD DXYGEN AND CARBON
DIOXIDE TENSIONS DURING BRIEF HYPERVENTILATION

A-49

WITH NITROGEN IN MAN

464-80122

ALVEOLAR AND ARTERIAL GAS TENSIONS AS RELATED TO A64-80170 ALTITUDE AND AGE

HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR A64-80908

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DOG AS RELATED TO PH AND CARBON A64-81009

VENTILATORY RESPONSE TO EXCESS CARBON DIOXIDE AND HYPOXIA AND RELATION TO DRUG EFFECT A64-81229

CARBON DISULFIDE

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

CARBON MONOXIDE

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TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF FLUCTUATING CARBON MONOXIDE EXPOSURES FROM MUL/T-IPLE SOURCES A64-80075

TOXICCLOGICAL METHODS FOR DETECTION OF POISONOUS COMPOUNDS OF INTEREST IN AEROSPACE MEDICINE A64-80349

ELECTROENCEPHALOGRAPHIC PATTERNS IN CASES OF CHRONIC EXPOSURE TO CARBON MONOXIDE CORRELATED WITH NEURASTHENIC SYMPTOMS A64-8 A64-80492

LOSS OF CONSCIOUSNESS ASSOCIATED WITH POISONS, INCLUDING CARBON MONOXIDE, AND VARIOUS DRUGS A64-80716

CHRONIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTRCENCEPHALOGRAM IN MAN 464-80749

PERCENTAGE CARBON MONOXIDE ABSORPTION AND RELATION TO PULMONARY DIFFUSING CAPACITY A64-809C0

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING N64-14595

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE

N64-24619 **ATMOSPHERE** CARBON MONOXIDE POISONING

CARBON MONOXIDE POISONING EFFECTS ON CENTRAL NERVOUS SYSTEM AS RELATED TO CARBOXYHEMOGLOBIN A64-12987

PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT AND GUINEA PIG 464-81155

CARBON TETRACHLORIDE S CAREON TETRACHLORIDE POISONING

CARBON TETRACHLORIDE POISONING
CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
STRUCTURE AND ENZYME ACTIVITY A64

CARBON TETRACHLORIDE POISONING AS RELATED TO TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND FATTY ACIDS IN RAT LIVER

RADIDACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY -HYDROBIOLOGY

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA

CARBONACEOUS NETEORITE

METEORITIC INVESTIGATIONS FOR DETECTING
EXTRATERRESTRIAL LIFE, PARTICULARLY EXAMINATION OF
CARBONACEOUS CHONDRITES
A64-10876

CARBONACEOUS MATERIAL IN TERRESTRIAL SAMPLES AND CRGUEIL METEORITE FOR EVIDENCE OF EXTRATERRESTRIAL

A64-14781

ORIGIN OF CARBONACEOUS CHONDRITES AND EXTRATERRESTRIAL LIFE A64-80450

ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES SUGGESTING BIOGENIC ORIGIN A64-80452

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS 464-80592

PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN A64-81119

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS -EVOLUTION OF LIFE N64-19584

CARBONATE S BICARBONATE

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY DVL-225 N64-32326

CARRONIC ANHYDRASE MAGNETIC FIELD EFFECT ON ACTIVATION OF CARBOXYDISMUTASE, CATALYTIC ENZYME IN

A64-18377

CARBONIZATION DECOMPOSITION

PHOTOSYNTHESIS

CARBOXYHEMOGLOBIN CARBON MONOXIDE POISONING EFFECTS ON CENTRAL NERVOUS SYSTEM AS RELATED TO CARBOXYHEMOGLOBIN A64-12987

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS AMRL-TDR-63-69 N64-22290

CARBOXYHEMOGLOBIN TEST
TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF
FLUCTUATING CARBON MONOXIDE EXPOSURES FROM MULTIPLE SOURCES

CARDIAC FREQUENCY METER
DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF
CARDIAC FREQUENCY . A64-A64-80023

CARDIOGRAM S ELECTROCARDIOGRAM

CARDIOGRAPHY

SA BALLISTOCARDIOGRAPHY SA PHONOCARDIOGRAPHY ATTACHMENT TO ELECTROCARDIOGRAPH FOR PULSE RECORDING IN HUMAN A64-81309

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS N64-16567 AD-412814

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH NASA-TT-F-205 N64-25206

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS JPRS-26103 N64-28431

TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR SYSTEM OF MAN

N64-31557 NASA-TT-F-8567

CARDIORESPIRATORY SYSTEM

CF HEART CARDIDRESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS. BOTH CAISSON AND ALTITUDE A64-19135

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS

TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94 N64-15744

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL CXYGEN CONCENTRATION ARRL-TDR-63-104

CARDICVASCULAR SYSTEM
CF BLCCD CIRCULATION
CF HEART
CF VEIN

CF VEIN
URINARY CUTPUT OF ACRENALINE AND NORADREMALINE,
PULSE RATE AND BLOOD PRESSURE OF SUBJECTS AFTER
MATER IMMERSION STUDIED, TO DETERMINE THE
SYPPATHOACRENAL RESPONSE AND ORTHOSTATIC TOLERANCE
A64-10252

EFFECTS CF CARDIOVASCULAR, THERMAL, VISUAL AND RESPIRATORY STRESSES INDUCED BY UNUSUAL ENVIRONMENT

A64-12974

CARDICVASCULAR EXAMINATION IN SELECTION OF AIRCREW A64-13752

REACTION OF CARDIOVASCULAR SYSTEM OF MEN AND ANIMALS UNDER CONDITIONS OF WEIGHTLESSNESS ONBOARD U.S. AND U.S.S.R. SPACECRAFT A64-18574

ORTHOSTATIC INTOLERANCE, WITH ASSESSMENT OF CIRCULATORY PROBLEM OF WEIGHTLESSNESS IN PROLONGED SPACE FLIGHT A64-19130

CARDICVASCULAR DECONDITIONING FROM SPACE CABIN SIMULATOR CONFINEMENT A64-19131

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL CXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE AND VENOUS PRESSURE IN THE FOREHEAD

A64-20694

PHYSICAL INACTIVITY EFFECT, DISREGARDING
WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING
DURING ORTHOSTATIC TESTING
A64-22060

CRTHOSTATIC TOLERANCE LOSS IN REDUCED GRAVITY ENVIRONMENT, OBSERVING CHANGES IN BLOOD VOLUME CIRCULATION AND NEUROADRENERGIC SYMPATHETIC NERVOUS SYSTEM A64-24971

BICCYBERNETICS CONCEPT FUSING METHODS OF FEEDBACK ENGINEERING WITH METHODS OF BIOLOGIST INVESTIGATING CARDIOVASCULAR MODELS AND CALCIUM DYNAMICS A64-25317

DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM USING ANALOG COMPUTER TO SIMULATE PHYSICLOGICAL RESPONSE A64-25320

LANDING IMPACT STRESS TOLERANCE OF ANIMALS IMMERSED IN WATER, NOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

A64-25597

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM
A64-27274

THE WEEK BED REST EFFECT UPON CARDIDVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL REACTIONS IN MAN A64-27597

PRCLONGED WEIGHTLESSNESS AND DISUSE EFFECTS ON CARDICVASCULAR DECONDITIONING AND BODY FLUID DISTRIBUTION A64-28340

CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO
DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE
WITH AND WITHOUT PRESSURE SUIT

A64-28457

HEART RATE RESPONSE TO VALSALVA MANEUVER AS TEST OF CIRCULATORY INTEGRITY A64-80008

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS A64-B0044

CARDIGVASCULAR, RESPIRATORY, AND METABOLIC FITNESS

TESTED BY EXERCISE

A64-80081

HYPOXIC EFFECTS ON HEART AND CIRCULATION

A64-80101

ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDIOVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS

A64-80125

CARDIOVASCULAR RESPONSE IN MAN TO HIGH AMBIENT TEMPERATURE AND HUMIDITY A64-80135

CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-80142

HYPCTHERMIA AND THE CARDIOVASCULAR SYSTEM AND ELECTROCARDIOGRAM OF CATS A64-80159

CARDIOVASCULAR PHYSIOLOGY UNDER HYPOTHERMIA
A64-80162

COMPUTER SIMULATION OF CARDIOVASCULAR SYSTEM HYDRODYNAMICS A64-80209

EDEMA AT HIGH ALTITUDE IN RELATION TO CARDIOVASCULAR PHYSIOLOGY A64-80276

CARDIOVASCULAR SYSTEM IN CHILDREN FROM HIGH ALTITUDE A64-80311

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING
EXERCISE
A64-80352

CARDIOVASCULAR RESPONSE TO ACUTE HYPOCAPNIA DUE TO OVERBREATHING A64-80407

CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE A64-80418

TELEMETRIC RECORDING OF RESPIRATORY AND PULSE RATE DURING EXERCISE - EVALUATION OF FATIGUE AND CARDIOVASCULAR SYSTEM A64-80475

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL DXYGEN SATURATION. SUBENDOCARDIAL HEMORRHAGE. AND VENOUS PRESSURE IN THE FOREHEAD

A64-80500

MASTER EXERCISE TOLERANCE TEST IN DIAGNOSIS AND PROGNOSIS OF REDUCED CORONARY CIRCULATION A64-R0520

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE,
MACACA NEMESTRINA, DURING SPACE FLIGHT
A64-80544

NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND RABBIT A64-80559

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTOLITH, AND SEMICIRCULAR CANAL A64-B0645

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE RADIATION A64-80685

AGE EFFECT ON SEQUENTIAL DECISIONS AND CARDIOVASCULAR STATUS AMONG PILOTS

A64-80864

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING AIRCREM A64-80865

CARDIOVASCULAR HEALTH AND AGING IN RELATION TO PSYCHOMOTOR PERFORMANCE IN HUMAN

A64-80971

MAXIMAL DXYGEN INTAKE PREDICTION STUDIED WITH RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE

STRENUCUS EXERCISE AND WORKING CONDITIONS AND EFFECT ON BLOOD PLASMA AND RED CELL VOLUME A64-81C18

HEART VOLUME, STROKE VOLUME, AND CARDIAC OUTPUT DURING EXERCISE OF OLD MEN COMPARED TO YOUNG MEN A64-81031

CIRCULATORY RESPONSE TO HYPOXIA IN UNANESTHETIZEC DOG WITH AND WITHOUT CARDIAC CENERVATION

A64-81061

A64-81017

BICLOGICAL EFFECTS OF WEIGHTLESSNESS, AND ASSOCIATED PHENOMENA ON CARDIOVASCULAR SYSTEM IN HUMAN AND ON PLANT PROCESSES A64-811 A64-81195

FACTOR ANALYSIS OF CARDIOVASCULAR TEST VARIABLES

CARDIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPCXIA - METHOD DEVELOPED FOR FLIGHT A64-81233 FITNESS EXAMINATION

FLUID EXCHANGE ACRCSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

A64-81244

CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS JPRS-18644 N64-11316

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARCIOVASCULAR SYSTEM STUDY JPRS-21909

IONIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM JPRS-17659

PHYSICLOGICAL RESPONSE OF CARDICVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT

PHYSICLOGY OF DDG RESPIRATORY AND CARDIGVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

N64-11698

SEISMCCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT N64-11853

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG

CARDICVASCULAR RESPONSE IN MAN DURING FORWARD ACCELERATION N64-13463

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDICVASCULAR SYSTEM CARI-63-16 N64-16541

INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL N64-19557

SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC

FUNCTIONS JPRS-25015 N64-21482

CARDICVASCULAR EFFECTS OF REFEEDING STRESS FCLLCWING STARVATION TN-62-6 N64-21553

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS

SAM-TDR-64-15

N64-21597

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS JPRS-24967

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM TRANSFER OF HEART CONTRACTILE ENERGY THROUGH
LUNG-THORAX SYSTEM N64-22

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS NASA-TT-F-8895 N64-22941

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMCDYNAMIC DISORDERS AND CARDIAC DISEASES FTD-TT-64-271/1828384 N64-2609 N64-26092

REACTION OF CARDICVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS N64-30239

TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR SYSTEM OF MAN NASA-TT-F-8567 N64-31557

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMCNES, AND BEHAVIOR NASA-CR-129 N64-32833

CARTOGRAPHY S MAPPING

CASE HISTORY CASE HISTORIES ILLUSTRATING CAUSES OF AIRCREW DISORDERS A64-80180

DECOMPRESSION SICKNESS AT 18,500 FEET - CASE A64-80442 HISTORY OF PILOT

INFLIGHT VERTIGG AND LOSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE A64-80508

NITROPROPANE POISCNING. ANIMAL EXPERIMENTS AND HUMAN CASE REPORTS A64-81152

CASE HISTORY AND TREATMENT OF DXYGEN POISONING WITHOUT HYPOVENTILATION AFTER CONTINUOUS DXYGEN THERAPY A64-81181

MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC REGION FTD-TT-64-291/1 N64-32236

PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

HYPOTHERMIA AND THE CARDIOVASCULAR SYSTEM AND ELECTROCARDIOGRAM OF CATS

A64-A64-80159

RESPONSE OF OTOLITH ORGANS TO BODY TILT IN CAT A64-80217

VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA EFFERENT MOTOR SYSTEM IN CAT A64-80240

NOISE INDUCED DEAFNESS IN CAT A64-80308

REFLEX CONTROL OF ABDOMINAL MUSCLES DURING
POSITIVE PRESSURE BREATHING
A A64-80310

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND MUSCLE A64-80365

MIDDLEEAR MUSCLE ACOUSTIC REFLEX RESPONSE HABITUATED IN CAT A64-80385

EYE MOVEMENTS AND MUSCLE ACTIVITY RESULTING FROM ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN A64-80461 HABITUATION TO ROTATION RESULTING IN CHANGES IN PRIMARY, SECONDARY, AND CALORIC MYSTAGMUS A64-80620

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL

SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYCGRAPHIC, AND ELECTRENYSTAGMOGRAPHIC RECORDINGS

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT A64-80724

ANCXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYCANTOIN, TRIMETHADIONE, IODOACETATE, AND RESERPINE A64-80800

VESTIBULAR STIMULUS EFFECTS ON ELECTROCORTICOGRAM A64-80870

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT A64-80871

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS

A64-80896

A64-80681

BLCOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA A64-80926

LYMPH FLCW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

SPINAL MCTCR RESPONSE TO ACOUSTIC STIMULATION IN LIGHTLY STRYCHNINIZED CAT A64-80962

FLCW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT A64-80985

CORTICAL EXCITABILITY CHANGES IN CAT DURING POSITIVE ACCELERATION AND BLOOD VOLUME A64-80988

EVCKED RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA AND SLEEP A64-81 C27

ELECTROMYCGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

SPENTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT CURING SLEEP AND MAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM A64-81067

PRIMARY CEREBRAL CORTEX POTENTIALS EVOKED BY ACCUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING HYPCKIA IN CAT A64-81083

CUMULATIVE EFFECTS OF HYPOXIA ON ELECTRICAL PHENOMENA OF COCHLEA IN CAT A6 A64-81234

BLCOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPCXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL SYSTEM IN CAT A64-81245

MECHANISM OF INTERACTION OF RESPIRATORY CENTERS UNCER VARIOUS TYPES OF HYPOXIA IN RABBIT AND CAT A64-81260

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE CF CAT UCRL-11005

NYSTAGNUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT CARI-63-14 N64-11949

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT

BRAIN

N64-12573

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION CARI-63-13

N64-14544

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS AMRL-TDR-63-119 N64-16810

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT JPRS-25599 N64-27318

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

PHARMACCLOGICAL EFFECTS ON CATS OF TETRAMETHYL CYSTAMINE

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL NUCLET N64-31543

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS
MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS NASA-TT-F-9147 N64-33408

CATALYST S ENZYME

CATALYTIC ACTIVITY

MAGNETIC FIELD EFFECT ON ACTIVATION OF CARBOXYDISMUTASE, CATALYTIC ENZYME IN **PHCTOSYNTHESIS**

A64-18377

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS -CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS N64-22781

CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES DURING EMBRYONATION N64-32225

CATECHOLAMINE

STEROID AND CATECHOLAMINE EXCRETION OF PILOTS IN SPACE CABIN SIMULATOR

PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG DURING SURFACE HEATING A64-80874

CHLORPROMAZINE EFFECT ON CATECHOLAMINE EXCRETION OF NORMAL AND COLD ACCLIMATED RAT

A64-80983

ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RADIANT HEATING OF TRUNK A64-80998

PHYSICAL EXERCISE AND EFFECT ON ALIMENTARY HYPERLIPAEMIA AND RELATION TO CATECHOLAMINE A64-81225

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENCHEDULLARY SYSTEM AND ADRENAL CORTEX IN GOAT A64-81226

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION SAM-TDR-63-50 N64-12835

FFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED

WITH MCTION SICKNESS DUE TO TURBULENT FLIGHT SAM-TER-63-9 N64-13931

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHCLAMINES N64-21094 SAM-TOR-63-63

CATECHCLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA FTD-TT-63-1096/182 N64-22142

BLCCD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES JPRS-24838 N64-24561

PHCTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES

N64-24563

CATECHOLE SA CATECHOLAMINE ULTRAVICLET ABSORPTION SPECTRA OF STEROID AND CATECHCLE DERIVATIVES N64-14971 ARI-TER-63-29

CATION S ANICH

CAVITY PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY

CORTISCHE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS

N64-32981 SAM-TER-64-57

CELU BICLOGICAL CELL PHCTCELECTRIC CELL

CELL DIVISION GELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III A64-23669 2.

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
STATES CF SPERMATOGENESIS A64-27144

DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL DIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM A64-81118

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING N64-16904

BICCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N6 N64-16905

CELKULOSE MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE N64-27494 SAM-TDR-64-25

CENTRAL NERVOUS SYSTEM CF AUTONOMIC NERVOUS SYSTEM CARBON MCNOXIDE POISONING EFFECTS ON CENTRAL NERVOUS SYSTEM AS RELATED TO CARBOXYHEMOGLOBIN A64-12987

TOXIC ACTION OF ORGANOPHOSPHATE PESTICIDES ON CENTRAL NERVOUS SYSTEM A64-A64-19142

PERSONALIZED RADIO TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONDITIONS A64-23809

EFFECTS OF GRAVITY ON CENTRAL NERVOUS SYSTEM, SPECIFICALLY EFFECTS OF ACCELERATION AND VIBRATION A64-24970

HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

A64~80066

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY CENTRAL NERVOUS SYSTEM IN RABBIT

VESTIBULAR CORIOLIS EFFECT DURING ADDITIONAL LINEAR ACCELERATION A64-80250

NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG A64-80332

VISUAL PERCEPTION STUDIES ANALYZED FOR GENERALIZATION TOWARD THEORY OF HUMAN PERCEPTION A64-80379

BCDY TREMOR RELATED TO DIFFERENTIAL STIMULATION OF CENTRAL NERVOUS SYSTEM A64-80389

ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM A64-80398 IN RABBITS

ADAPTATION TO MCTION - RELATION TO VESTIBULAR APPARATUS AND CENTRAL NERVOUS SYSTEM

A64-80437

ALTITUDE SICKNESS EXPRESSED AS CENTRAL NERVOUS SYSTEM SYMPTOMS IN FEMALE MOUNTAIN CLIMBER

SUBLIMINAL PERCEPTION - LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY A64-805

EMCTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS WITH CENTRAL NERVOUS ACTION A64-80

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE RADIATION

ENVIRONMENTAL CCLD AS RELATED TO METABOLISM RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN

SPINAL MOTOR RESPONSE TO ACOUSTIC STIMULATION IN A64-80962 LIGHTLY STRYCHNINIZED CAT

LIGHT AS REGULATOR OF NEUROENDOCRINE FUNCTION A64-81090

TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS

SLEEP-WAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF HAMSTER

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCORTICAL AREAS OF BRAIN IN RABBIT

ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO HYPOXIA A64-81258

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM

WATER & IGN SHIFTS IN CENTRAL NERVOUS SYSTEM OF N64-14593 FROG - MORPHOLOGY

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-14594

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING N64-14595

CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS
DUE TO ASPHYXIA DURING BIRTH N64-146 N64-14600

LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT

CENTRAL NERVOUS SYSTEM

N64-14607

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM JPRS-23254 N64-15382

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYK FOR TREATMENT OF CENTRAL NERVOUS SYSTEM N64-15383

TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ERGANS - AUCITORY DISCRIMINATION

N64-18831

PRECESS OF CORRECTLY SIGNALLING LOCATION OF STIMULUS TO CENTRAL NERVOUS SYSTEM

N64-18833

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN

N64-19440

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

BICLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES CF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX

JPRS-26060

N64-28446

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC N64-32782

EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS SYSTEM IN VIVO AND AT CELLULAR LEVEL NASA-CR-58974

N64-33095

CENTRAL NERVOUS SYSTEM DEPRESSANT

CF BARRITURATE CF MEPROBAMATE

CF MORPHINE

CF PENTOBARBITAL SODIUM PCLYGRAPHIC INVESTIGATION OF EMOTIONAL INFLUENCE CN PHYSICLOGICAL INDICES AND AFTER CENTRALLY EFFECTIVE DRUG IN MAN A64-8069 A64-80654

COMPARATIVE EFFECT OF CHLORMEZANONE, SINGLY AND IN COMBINATION WITH ASPIRIN, ETHANOL, AND PLACEBO ON HUMAN PERFORMANCE UNDER DELAYED AUDITORY FEEDBACK 464-R1 740

CENTRAL NERVOUS SYSTEM STIMULANT

CF ATROPINE

CF EPINEPHRINE

CF METRAZOL CF NOREPINEPHRINE

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY TO STIMULANT DRUG A64-81252

CENTRIFUGAL FORCE

INCREASED AND DECREASED GRAVITY EFFECTS ON RATS SUBJECTED TO PROLONGED CENTRIFUGATION

A64-24163

ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVIOR BY CHICKEN A64-80321

CENTRIFUGE

SA HUMAN CENTRIFUGE SA PILOTED CENTRIFUGE ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDICVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT

NACC-MA-6308

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL FASK IN TOTAL ENVIRONMENT

N64-13458

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL DXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION NADC-MA-6323 N64-13831

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION NADC-AC-6406 N64-28696

CENTRIPETAL FORCE

COMPARISON OF SYMPTOMATCLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

CEREBRAL CORTEX

ACCLIMATIZATION AND OTHER EFFECTS OF ANOXIA VIA EEG, HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS OF THE VISUAL CORTEX OF RABBITS

BICELECTRIC ACTIVITY OF CEREBRAL CORTEX IN RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS OF ELECTROENCEPHALOGRAMS A64-25599

STIPULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE
ACCELERATIONS A64-25600

AUDITORY CORTEX RESPONSE OF UNANESTHETIZED CATS TO ACOUSTIC STIMULI A64-27135

CORTICAL POTENTIALS EVOKED BY PHOTIC STIMULATION AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN 464-80003

ELECTROMYOGRAPHIC ANALYSIS OF SIMPLE VOLUNTARY MOVEMENT AND SPREAD OF EXCITATION TO CONTRALATERAL INACTIVE EXTREMITY A64-80047

EXERCISE AND SPACE THRESHOLD OF THE TACTILE DIFFERENTION A64-80192

HANDEDNESS AND DIFFERENTIAL PERCEPTION OF VERBAL STIMULI IN LEFT AND RIGHT VISUAL FIELDS

ELECTROENCEPHALOGRAPHIC RESPONSE TO TACTILE AND AUDITORY STIMULATION IN MAN A64-80236

ELECTROENCEPHALOGRAPHIC CHANGES IN VARIOUS AREAS OF CEREBRAL CORTEX DURING PHYSICAL WORK BY MAN 464-80237

HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX A64-80314

HYPOTHERMIC EFFECT ON CCRTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND A64-80365

MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS EVOKED BY LOUD NOISE IN GUINEA PIGS

LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN

TACTUAL ACUITY CHANGES AND INTERLIMB TRANSFER FOLLOWING OCCLUSION OF CIRCUMSCRIBED AREA OF SKIN A64-80796

DISTURBANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-1 A64-80859

EPILEPTIC CHARACTER OF ELECTROENCEPHALOGRAM AFTER MENTAL FATIGUE - DISTURBANCE IN CORTICAL AND SUBCORTICAL REGION IN RAILROAD PERSONNEL

A64-80937

CORTICAL EXCITABILITY CHANGES IN CAT DURING POSITIVE ACCELERATION AND BLOOD VOLUME A64-80988 REDUCTION

EVCKEC RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA, AND SLEEP A64-81 A64-81027

RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER

A64-81053

RRIMARY CEREBRAL CORTEX POTENTIALS EVOKED BY ACCUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING HYPOXIA IN CAT A64-81083

CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS A64-81134 PHENOMENA

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR
CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY
TO STIMULANT DRUG
A64-81252 A64-81252

OXYGENATING ENZYMES IN BRAIN CORTEX AND MEDULA IN A64-81293 RATS ACAPTED TO HYPOXIA

CORTICAL REGULATION OF WATER & SALT METABOLIC BALANCE JPRS-22523

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO N64-14587 ANCXEMIA

EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX N64-14590

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592

LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601

PHCSPHCPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING

N64-15955 AD-430174

BICELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY FTC-TT-63-231 N64-22646

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTCMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL N64-30321 JPRS-26014

PRE-MCTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL N64-30325

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG

N64-31462

CEREBROSPINAL FLUID

CEREBROSPINAL FLUID EFFECTS ON HIGH ALTITUDE RESPIRATORY ACCLIMATIZATION OF MAN A64-23261

CEREBRCSPINAL FLUIC AND PLASMA BICARBONATE AND ELECTRCLYTES IN DOG IN ACUTE AND PROLONGED HYPERCAPNIA A64-80C85

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH A64-80114

RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER ADAPTATION TO ALTITUDE OF BLOOD AND CEREBROSPINAL

FLUID

A64-80160

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN -NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID N64-22203

CERENKOV RADIATION GAMMA RADIATION

CERIUM 144 GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-1243 N64-12435

EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION AND IN SOIL ON ACCUMULATION IN PEA PLANTS & WHEAT JPRS-22656 N64-1300 N64-13006

CESTUM 137 SELF-PURIFICATION OF CESTUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE JPRS-26056 N64-29032

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033

CHAMBER SA ENVIRONMENTAL CHAMBER

SOUNDPROOF ROOM PROVIDING MAXIMUM ATTENUATION IN SPEECH FREQUENCY RANGE A64-80610

CHARGED PARTICLE CF ELECTRON
CF ION
CF POSITRON CF PROTON ENERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY TRAPPED RADIATION AS HAZARDS TO MANNED SPACE TRAVEL A64-11457

CHART S GRAPH

CHECKOUT EQUIPMENT
HUMAN ENGINEERING IN MONITORING AND CHECKOUT EQUIPMENT N64-13972 WDL-TR-1968

CHELATE COMPOUND REMOVING RADIOACTIVE ISCTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL ANALYSIS AND BY DIGITAL COMPUTER

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD

FOR SPACE NASA-CR-52217

CHEMICAL COMPOSITION CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA NADC-MA-6319

CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS IITRI-L6002-4 N64-15586

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT FTD-TT-64-581/184

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE JPRS-26056 N64-29032

CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES N64-29034

CHEMICAL COMPOSITION OF UREA-EXTRACTABLE COMPONENTS OF PLAGUE VIRUS EV N64-32165 JPRS-26858

CHEMICAL COMPOUND BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE N64-22729

OF ORGANISMS

N64-32164

N64-25145

CHEMISTRY JPRS-26845 CHENICAL EFFECT CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN JPRS-21-590 PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-26991 RADIATION AND CHEMICAL GENETIC EFFECTS JPRS-22581 N64-12701 CHEMORECEPTOR CHEMICAL STERILIZATION N64-14372 TOXIC CHEMICALS AND LABOR CONDITIONS IN CHEMICAL INDUSTRY CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 MECHANISMS OF CHEMICAL PROTECTION AGAINST RACIATION IN LIVING ORGANISMS - RADIOBIOLOGY JPRS-26842 N64-31313 CHEMICAL KINETICS KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE CHEMORECEPTOR CHENICAL PROPERTY NUCLEIC ACICS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID SYSTEM IN CAT CHEMICAL REACTION S DECOMPOSITION CHENOTHERAPY DISSOCIATION ELECTROLYSIS HYDROLYSIS JPRS-20041 ION EXCHANGE OXIDATION **POLYMERIZATION** CHEMICAL STERILIZATION TECHNIQUES AND EFFECTIVENESS OF CHEMICAL STERILIZATION IN SPACE RESEARCH A64-24981 SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL STERILIZATION BY ETHLENE DXIDE A64-R0463 AD-430559 CHEMILUMINESCENCE RELATICNSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS JPRS-23735 N64-16950 CHEMISTRY /GEN/ JPRS-26116 CF BIOCHEMISTRY
CF CHEMICAL STERILIZATION CF ELECTROCHEMISTRY CF GECCHEMISTRY CF ORGANIC CHEMISTRY PHYSICAL CHEMISTRY AEC-TR-6258 CF PHYSIOCHEMISTRY CF POLYMER CHEMISTRY CHICKEN CF QUANTITATIVE ANALYSIS CF RADIOCHEMISTRY BICPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION OF LIFE PHENOMENA JPRS-21966 N64-10329 BICCHEMISTRY - BIOLOGICAL EFFECTS OF VARIOUS CHEMICALS JPRS-24050 N64-18410 MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM RRCTEINCID CHILD NASA-TM-X-51514 DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL N64-22772 AGE CHILDERN

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BICLOGICAL AND MEDICAL RESEARCH RELATED TO

N64-32986 GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND CHEMISTRY N64-33957 VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS A64-80052 HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA A64-80053 BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE REGULATION OF RESPIRATION AND CIRCULATION THROUGH OXYGEN TENSION IN MIXED VENOUS BLOOD A64-80355 ALTITUDE EFFECT ON RESPIRATORY REGULATION AND A64-80454 HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON EXCITABILITY OF CAROTID SINUS CHENCRECEPTORS UNDER DIFFERENT CONDITIONS OF OXYGEN DIFFUSION A64~80752 BLOOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPOXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL A64-81245 DEVELOPMENT OF BIOCHEMICAL SUBSTANCES BY MICROBIOLOGICAL TRANSFORMATION FOR CHEMOTHERAPY N64-11132 CANCER CHEMOTHERAPY - BIBLIOGRAPHY N64-15829 PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-CXIDATION PROPERTIES OF VAKIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, $\boldsymbol{\epsilon}$ INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN INFLUENCE OF CHEMCTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY N64-28432 CHEMOTHERAPY FOR RADIATION SICKNESS N64-33578 RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY N64-33582 ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA A64-80048 ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVIOR BY CHICKEN A64-80321 METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO INCUBATED IN HELIUM-OXYGEN ATMOSPHERE A64-80852

PERCEPTION OF SIZE OF OBJECT IN SPATIAL

CRIENTATION OF PRESCHOOL CHILDREN

N64-25146

DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE N64-25147

DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL CONCEPTS IN PRESCHOOL CHILDREN N64-25148

PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN DURING NATURE DRAWING N64-25149

SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH THROUGH SIXTH GRADE STUDENTS N64-25150

DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151

PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE CHILDREN DURING FIELD SURVEYING EXERCISES

PHYSICLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461

CHIMPANZEE

MANUALLY OPERATED PELLET FEEDER FOR PRIMATES IN

804-80188

EFFECT OF IMPACT VELOCITY ON LDH ISOENZYMES AND RELATED TISSUE DAMAGE IN CHIMPANZEE

A64-80847

IMPEDANCE PNEUMOGRAPHY FOR LONG-TERM MONITORING AS COMPARED TO OTHER PNEUMOGRAPHIC METHODS FOR HUMAN AND CHIMPANZEE STUDIES A64-80848

CBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE ARL-TDR-63-28 N64-13854

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS
ARI-TDR-63-26 N64-14

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS

NASA-CR-55689

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER

EAR ARL-TDR-64-1 N64-18650

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH ARL-TDR-64-3 N64-21311

ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE NASA-RP-188 N64-22094

CHIMPANZEE MEDICAL RECORDS
ARL-TDR-64-5 N64-22280

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS
AVCIDANCE TASK

ARL-TDR-64-7 N64-22697

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS ARL-TDR-64-4 N64-26197

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA ARL-TDR-64-9 N64-32026

CHLORELLA

CF ALGAE

TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING

FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS

A64-25588

OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS, NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND STRUCTURE A64-25602

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE OXYGEN IN AIR REGENERATION SYSTEM A64-25609

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING PHOTOSYNTHESIS INTENSITY OF CHLORELLA A64-25610

CHLORELLA PYRENIDCSA GROWTH UNDER STIMULATORY AND INHIBITORY EFFECTS OF CULTURE LIQUIDS

A64-25611

MASS PRODUCTIVITY OF CHLORELLA IN NONSYMMETRIC BIOLOGICAL CULTIVATOR, NOTING IRRADIATED SURFACE AND SUSPENSION VOLUME REQUIRED FOR GAS EXCHANGE A64-25612

CONTINUOUS CULTURE TECHNIQUE FOR GROWTH OF ALGA, CHLORELLA PYRENOIDOSA 7-11-05 AS SOURCE OF SPACE FOOD A64-80466

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY
CHLORELLA AND OTHER ALGAE USED IN CLOSED
ECCLOGICAL SYSTEMS AS RELATED TO RECYCLING
TIME OF GROWTH A64-80784

PHOTOSYNTHESIS AND FLUORESCENCE DURING VARIOUS STAGES OF CELL GROWTH IN SYNCHRONIZED CULTURES OF CHLORELLA PYRENOIDOSA A64-80805

FLUORESCENCE OF CULTURES OF CHLORELLA
PYRENGIDOSA EXPOSED TO VARYING CONCENTRATIONS OF
PLASMOLYTICS AT DIFFERENT STAGES OF CELL
DEVELOPMENT
A64-80806

PHOTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE

A64-80808

MITOSIS AND CHLOROPHYLL CONTENT IN CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR SHORT AND PROLONGED PERIODS A64-80809

UTILIZATION OF URINARY NITROGEN BY CHLORELLA PYRENDIDOSA FOR BIOLOGICAL REGENERATION SYSTEM FOR LONG TERM SPACE FLIGHT A64-80828

EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA PYRENOIDOSA A64-80866

INHIBITION OF GROWTH OF CHLORELLA VULGARIS BY ORGANIC PEROXIDES A64-80901

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN SOURCE FOR CHLORELLA PYRENOIDOSA

A64-80945

RESPIRATION AND PHOTOSYNTHESIS OF CHLORELLA IN CLOSED ECOLOGICAL SYSTEM WITH AND WITHOUT GAMMA RAY IRRADIATION A64-81001

TEMPERATURE MAINTENANCE, CARBON DIOXIDE
AVAILABILITY, NUTRIENT SUPPLY, AND CONSISTENT
LIGHTING DILUTION DEVICE FOR CONTINUOUS CHLORELLA
CULTURE
A64-81050

IRON AS GROWTH FACTOR OF ALGAE, CHLORELLA PYRENOIDOSA, AND CHICK 82 A64-81081

THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY
JPRS-18432 N64-11044

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE

N64-11678

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY

N64-11697

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHLORELLA N64-19470

QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA
N64-19471

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS
TN-62-13

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA
TN-62-16

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775

CAPILLARY-MANCHETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLCRELLA M64-23776

NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA PYRENCIDOSA N64-23777

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIGLOGICAL CULTIVATORS WITH IRREGULAR SHAPES N64-23778

EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA FTD-TT-64-246/16264 N64-2611

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -BIOASSAY WITH CHLORELLA AD-605724 N64-30569

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE AD-447801

N64-31315

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA
PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE
ILLUMINATIONS N64-33456

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495

CHLOR IDE

SA GERMANIUM CHLORIDE

SA SILVER CHLORIDE SA SODIUM CHLORIDE

SA TETRACHLORIDE

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION

CHLORINE

ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION
JPRS-21975
N64-10386

CHI GO CONVI I

MITOSIS AND CHLOROPHYLL CONTENT IN CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR SHORT AND PROLONGED PERIODS A64-80809

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS FTD-TT-63-1016/162 N64-23655

OPTIMIZATION OF ILLUMINATION AND TEMPERATURE
EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA
SALINA CELLS
N64-23657

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES FTD-TT-63-1052/162 N64-23659

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BICSYNTHESIS
OF CHLCROPHYLL N64-23660

CHLOROPLAST EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND

CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION

NASA-CR-56130 N64-20705

ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY NASA-CR-58340 N64-28935

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760 N64-33104

WATER PHOTOLYSIS AND DXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR NASA-CR-59220 N64-33124

CHLORPROMAZINE

VISUAL SIGNAL-FROM-NOISE DETECTION BY MONKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND SODIUM PENTOBARBITAL A64-80906

CHLORPROMAZINE EFFECT ON CATECHOLAMINE EXCRETION OF NORMAL AND COLD ACCLIMATED RAT

A64-80983

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN, AND PHYSICAL STRESS A64-81156

VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT, AND CAT AS AFFECTED BY CHLORPROMAZINE

444-8120

CHLCRPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND DXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN MAN AND DOG A64-81209

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/18284 N64-33102

CHOLESTEROL

BLOOD CHOLESTEROL AND LIPIDS IN WORKERS AT ALTITUDE A64-80182

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

SERUM CHOLESTEROL AND TOBACCO SMOKING AS RELATED TO CAPACITY FOR PHYSICAL WORK OF MEN OF DIFFERENT AGES A64-81068

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION
OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL N64-32016

CHOLINE

S ACETYLCHOLINE

CHONDR ITE

METEORITIC INVESTIGATIONS FOR DETECTING EXTRATERRESTRIAL LIFE, PARTICULARLY EXAMINATION OF CARBONACEOUS CHONDRITES A64-10876

CHROMATOGRAPHY

SA GAS CHROMATOGRAPHY
SA PAPER CHROMATOGRAPHY
NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT
LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318
N64-14351

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861

PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED
DEOXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
USNRDL-TR-655
N64-24185

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D

AND CHOLESTEROL

N64-32016

CHROMIUM COMPOUND CHROMIUM COMPOUND POISONING JPRS-26768

N64-31267

CHROMOSOME CE BIOLOGI

CF BIOLOGICAL CELL
CF GENETICS
CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA
MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT
A64-11351

CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN TEMPERATURES A64-13516

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT A64-17074

OCCURRENCE OF CROSSING OVER IN CHROMOSOMES OF MALE DROSOPHILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION A64-26813

STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION A64-28414

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT

N64-11684

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY
OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522 N64-12060

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER
INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO LPRS-2719 N64-13163

VARIATIONS OF RNA IN GIANT CHROMOSCMES OF LARVAE DURING METAMORPHOSIS JPRS-22666 N64-13229

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS UCRL-10979 N64-14428

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION ORNL-3531 N64-14442

EFFECT OF SPACE FLIGHT CONDITIONS ON CHRCMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-2285

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740 N64-27649

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI NASA-RP-296 N64-28231

CIRCULATION

- S BLCCD CIRCULATION
- S PERIPHERAL CIRCULATION
- S RECIRCULATION

CIRCULATORY SYSTEM
CF BLOOD CIRCULATION

BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS AIAA PAPER 64-217 A64-18853

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS A64-80632

ELECTROCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR
AND SPACE FLIGHT ACCELERATIONS ON HUMAN
CIRCULATORY SYSTEM
DVI-259
N64-10236

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA JPRS-18855 N64-10867

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN JPRS-18960 N64-11121

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN MORKERS EXPOSED TO OVEROOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE ARL-TDR-63-28 N64-13854

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES
OF BLOOD & HEMODYNAMICS DURING USE OF
EXTRACORPORAL CIRCULATION SYSTEMS
JPRS-22914 N64-14133

REACTION OF CIRCULATION, RESPIRATION, AND
METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH
ALTITUDE N64-15046

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY AMRL-TDR-63-105 N64-16807

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY
IMPLANTATION
SAM-TDR-64-10
N64-18918

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173
N64-23204

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW AAL-TDR-63-35 N64-33524

CIRCUMPOLAR VORTEX WIND S METEOROLOGY

CISLUNAR SPACE
MODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR
SPACE FOR FLIGHT TRAINING SIMULATION
A64-81220

CIVIL AVIATION

CF AIR TRANSPORTATION

MEDICAL PROBLEMS OF CIVILIAN AIR TRANSPORT

A64-80158

CIVIL AVIATION AIRCRAFT ACCIDENT INVESTIGATION -METHODOLOGY AND PATTERNS OF RESEARCH IN RELATION TO HUMAN FACTOR A64-80458

VISUAL EXAMINATIONS FOR CIVILIAN AIR PERSONNEL A64-80460

NEUROLOGICAL ABNORMALITIES IN CIVILIAN PILOTS AND AIR TRAFFIC PERSONNEL REQUIRING MEDICAL CERTIFICATION A64-80836

STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY A64-80851

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED TO AIRCRAFT ACCIDENTS A64-80923

CIVIL DEFENSE
SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES PUBLIC FALLOUT SHELTERS
AD-603125
N64-32529

CLAY S SOIL

CLEAN ROOM
S ENVIRONMENTAL CONTROL

CLEANING S PURIFICATION

CLIMATE
TEMPERATURE REGULATION IN EXERCISE AT DIFFERENT
CLIMATIC CONDITIONS
A64-80083

SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS — PHYSIOLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MAMMAL A64-80421

ADAPTATION OF PRIMITIVE MAN TO COLD STRESS IN VARIOUS GEOGRAPHICAL LOCATIONS A64-80425

CLINICAL MEDICINE
BICMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH
STUDIES OF F-105 PILOTS
A64-80094

ATRIAL FIBRILLATION IN FLYING PERSONNEL

A64-80659

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS JPRS-19030 N64-11123

MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE AMRL-TCR-63-70

N64-11445

STERILIZED FIBERS FOR CLINICAL MEDICINE JPRS-23609

N64-16545

CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS
OF RADIATION EXPOSURE
ORO-614
N64-16551

BICMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

METHOD OF TREATMENT OF AURICULAR FIBRILLATION
NASA-TT-F-8555
N64-23117

RACIOISCTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT

N64-24C07

LCNG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL AND MEDICAL SCIENCES
AD-436723 N64-24C70

PHCTOELECTRONIC UNIT FOR BICMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES
N64-24563

BICMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021 N64-25950

MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT OF RADIATION ACCIDENTS JPRS-26021 N64-28439

CLOSED ECCLOGICAL SYSTEM
CF OXYGEN PRODUCTION
CF SPACE CABIN ATMOSPHERE
ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS
IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT

SYNTHESIS OF CARBOHYDRATES FROM THE CARBON DIOXIDE AND WATER PRESENT IN A CLOSED CIRCUIT RESPIRATORY SYSTEM TRAVELING THROUGH SPACE AIAA PAPER 63-143

AIR PURIFICATION IN CLOSED ECOLOGICAL SYSTEM BY BACTERIA WHICH UTILIZES MOLECULAR HYDROGEN FROM ELECTROLYSIS OF WATER IN REDUCING CARBON DIOXIDE CONTENT A64-18540

CLCSED ENVIRONMENT LIFE SUPPORT SYSTEMS DEPENDENT ON PROPULSION SYSTEMS AND MISSION REQUIREMENTS

A64-24402

DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE USED FOR SUPPORT OF HUMANS IN SPACE

PHYSICAL CONSTANTS OF VERMICULITE, PENOSHAMOTE,
CERAMSITE AND PERLITE SUBSTRATES FOR CLOSED
ECOLOGICAL SYSTEMS
A64-25587

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION REQUIREMENTS A64-25589

ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS ENVIRONMENT TO OBTAIN DXYGEN, USING WASTE PRODUCTS

A64-25607

CARBOHYDRATE SYNTHESIS IN SPACECRAFT CABIN BY FORMALDEHYDE POLYMERIZATION REACTION

A64-25608

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE OXYGEN IN AIR REGENERATION SYSTEM A64-25609

MASS PRODUCTIVITY OF CHLORELLA IN NONSYMMETRIC BIOLOGICAL CULTIVATOR, NOTING IRRADIATED SURFACE AND SUSPENSION VOLUME REQUIRED FOR GAS EXCHANGE A64-2561:

AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BIOLOGICAL AIR REGENERATION SYSTEM

A64-25613

AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING TRANSITION PROCESSES DURING GROWTH OF CULTURES A64-2561

SELF-SUSTAINED LIFE SUPPORT SYSTEM DEVELOPED ON BASIS OF SYMBIOSES EXISTING BETWEEN ANIMALS AND PLANTS AND BETWEEN AUTOTROPHIC AND HETEROTROPHIC PLANTS

A64-27028

SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE ORIGIN OF LIFE, CLOSED ECOLOGICAL SYSTEMS, EFFECTS OF MEIGHTLESSNESS AND RADIATION, AND MEASURING INSTRUMENTS

A64-80124

TECHNOLOGICAL PROBLEMS OF WATER AND FOOD SUPPLY IN MANNED SPACE FLIGHT A64-80133

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES A64-80226

CHEMOSYNTHETIC GAS EXCHANGE SYSTEM FOR LONG DURATION MANNED SPACE FLIGHT A64-80262

SEALED ENVIRONMENTS IN RELATION TO HEALTH AND DISEASE A64-80265

RADIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM A64-B0324

ECOLOGICAL SYSTEMS IN SPACE VEHICLES CONTRASTED WITH THOSE IN PERMANENT OR SEMIPERMANENT LUNAR CR PLANETARY BASES A64-80486

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY CHLORELLA AND OTHER ALGAE USED IN CLOSED ECOLOGICAL SYSTEMS AS RELATED TO RECYCLING TIME OF GROWTH A64-80784

UTILIZATION OF URINARY NITROGEN BY CHLORELLA
PYRENDIDOSA FOR BIOLOGICAL REGENERATION SYSTEM
FOR LONG TERM SPACE FLIGHT
A64-80828

SUPEROXIDES FOR DXYGEN PRODUCTION AND CARBON DIOXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS

A64-80831

CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE
A64-81037

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT N64-11702

PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED

N64-13715 ECCLOGICAL SYSTEM

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN -AIR CONDITIONING SYSTEMS FTD-TT-62-1545/1

CHARACTERISTICS OF ARTIFICIAL SUBSTRATES FOR USE IN CLOSED ECOLOGICAL SYSTEMS N64-23753

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLCSED ECOLOGICAL SYSTEM N64-23 N64-23781

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED N64-24617 ECCLOGICAL SYSTEMS

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTRCLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TCR-64-35

GROWTH CHARACTERISTICS OF AUTOTROPHIC BACTERIA FOR BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN

ORGANIZATION OF CLCSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT NASA-TT-F-9131

CLCSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT R63SD83 N64-336C4

CLOSED LOOP SYSTEM LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS N64-31927 FDL-TDR-64-67, PT. I

CLOSTRIDIUM BIOREGENERATING SYSTEMS - USE OF HYDROGEN-OXIDIZING BACTERIA, CLOSTRIDIUM AND HYDROGENOMONAS IN REGENERATION OF EXPIRED AIR A64-80468

CLOTHING

SA FLIGHT CLOTHING CF HELMET

ACCUMULATION OF STATIC ELECTRICITY ON ARCTIC CLOTHING WITH DECREASE IN TEMPERATURE AND HAZARD OF EXPLOSIVE GAS—AIR MIXTURES IGNITING BY A64-13523 ELECTROSTATIC DISCHARGE

OXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND EFFECT ON BURNING RATE OF FABRICS A64-80928

COBALT 60 SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK & COBALT 60 SOURCE OPERATION IN BREN PROJECT CEX-6203

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435

COBALT-60 BULK GRAIN IRRADIATION FACILITY BNL-810/T-312/ N64-19091

COCKLEA CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN MAMMAL CAUSED BY INTENSE ACQUISTIC STIMULATION 464-81079

CUMULATIVE EFFECTS OF HYPOXIA ON ELECTRICAL PHENOMENA OF COCHLEA IN CAT A64-81234

COCKPIT

S AIRCRAFT CABIN S COCKPIT SIMULATOR

COCKPIT SIMULATOR MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION N64-17157 NASA-TN-D-2177

CODE

SA BINARY CODE GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/18284 N64-1 N64-12384

CODING

CF PROGRAMMING COLOR CODING AND VISUAL SEPARABILITY IN INFORMATION DISPLAYS A64-14012

CUTANEOUS CODE TRANSFER TO DIFFERENT LOCI

A64-80584

COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS A64-80603

CODING STRATEGY EFFECT ON PERCEPTUAL MEMORY A64-81199

CODING SYSTEM
ELECTROCUTANEOUS COMMUNICATION BASED ON LOCUS A64-80309 DIMENSION

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-125

CF DECISION
CF RECOGNITION SENSORY DEPRIVATION AND SOCIAL ISOLATION - EFFECTS ON PERFORMANCE OF UNSTRUCTURED COGNITIVE TASK A64-80267

SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF EFFECTS ON HUMAN AND ANIMAL BEHAVIOR A64-80382

CHOICE REACTION TIME AS FUNCTION OF COGNITIVE ASPECTS OF TASK A64-80573

METHODOLOGICAL ARTIFACT DUE TO DIRECTIONS IMPLICATED IN PRODUCTION OF SENSORY DEPRIVATION A64-80676 FFFFCTS

COGNITIVE STRUCTURING, FIELD DEPENDENCE-INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION A64-8072 A64-80727

SENSORY AND SLEEP DEPRIVATION - ROLE OF NEUROPHYSIOLOGICAL CORRELATES IN PRODUCTION OF PSYCHOLOGICAL DISTURBANCES A64-8 A64-80761

REDUCTION OF RETROACTIVE EFFECT OF INTERPOLATED MAZE TRAINING IN HYPOTHERMIC MICE

PHYSIOLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER A64-81176 STRESS AND DEPRIVATION

COLD ACCLIMATIZATION

COLD STRESS EFFECT ON CEREBRAL FUNCTIONS AND THE RELATIONSHIP OF CEREBRAL FUNCTIONS TO METABOLIC A64-14991 REACTIONS

DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS A64-80089

ACCLIMATIZATION OF MAN TO POLAR REGIONS A64-80426

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE A64-80975

CHLORPROMAZINE EFFECT ON CATECHOLAMINE EXCRETION OF NORMAL AND COLD ACCLIMATED RAT A64-80983

NORADRENALINE FUNCTION IN COLD ACCLIMATIZATION OF A64-81064 RAT

DXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE

BALANCE OF BLOOD AD-600077

N64-26550

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD AAL-TDR-63-3 N64-31934

COLD TOLERANCE /BIOL/ CF ACCLIMATIZATION

OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN RELATION TO COLD TOLERANCE A64-80107

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A NEPALESE PILGRIM A64-80121

COLD STRESS - INTENSITY AND DISTRIBUTION OF REFLEX MUSCULAR ACTIVITY IN MAN A64-80343

COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AAL-TER-62-50 N64-23109

MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC

FTD-TT-64-291/1 N64-32236

HUMAN REACTIONS TO COLD ENVIRONMENT AD-444482

N64-33366

N64-18829

COLD WEATHER

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE AD-429526 N64-25323

COLLECTOR

COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE AD-428703 N64-19877

COLLOID

ELECTROPHORESIS

COLOR VISION THEORY

SOLID SUSPENSION

COLOR PERCEPTION

COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE A64-25825

HUMAN COLOR DISCRIMINATION IN PURPLE REGION A64-27753

SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR THREE RETINAL ECCENTRICITIES, USING COLOR NAMING METHOD

COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS A64-80603

COMPARATIVE BALLISTOCARDIOGRAPHIC INVESTIGATIONS OF REACTION TO COLORED LIGHT STIMULI IN MAN A64-81091

READING AND COLOR DISCRIMINATION THROUGH FINGERTIPS

A64-81124

CGLER DISCRIMINATION WITHOUT CHROMATIC VISION N64-22241

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS

N64-28581

COLUMBIUM S NICBIUM

COMBUSTION

SA HYDROCARBON CONBUSTION
COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS
UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH
CXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK CARI-63-27 N64-23618

COMBUSTION PRODUCT COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA TN-62-16 N64-21554 COMMAND CONTROL

EXPERIMENT FOR COLLECTING EMPIRICAL DATA ON HUMAN PERFORMANCE IN COMMAND AND CONTROL SYSTEMS

DECISION-MAKING SUBFUNCTIONS FOR SIMULATED COMMAND AND CONTROL SYSTEMS A64-24844

AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC VOICE PATTERN RECOGNITION A64-26

EXIT REQUIREMENTS FOR EMERGENCY EVACUATION OF COMMERCIAL AIRLINERS

RADIOACTIVITY MEASUREMENTS OF AIR FRANCE AIRLINERS A64-80030

COMMERCIAL AVIATION

AEROMEDICAL ASSISTANCE TO INDUSTRIAL PHYSICIANS IN PILOT AND PASSENGER SELECTION FOR BUSINESS FLIGHTS

AIRLINE FLIGHT SURGEON DUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

COMMUNICATION

SA INTERSTELLAR COMMUNICATION SA SPACE COMMUNICATION

SA TELECOMMUNICATION

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

N64-17882

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH ANIMALS FTD-TT-62-1876/1

COMMUNICATION BETWEEN MAN AND OTHER SPECIES -DOLPHIN STUDIES NASA-CR-56530

BIOLOGICAL COMMUNICATIONS RESEARCH - COMMUNICATION BETWEEN DOLPHINS NASA-CR-53228 N64-23391

COMMUNICATION SYSTEM

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MAN-MACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT ATAA PAPER 64-421

IELECONFERENCING STUDIED AS MEANS OF GROUP COMMUNICATION A64-24834

CUTANEOUS COMMUNICATION SYSTEM FOR TRANSMITTING LINGUISTIC INFORMATION 464-80019

CUTANEOUS CODE TRANSFER TO DIFFERENT LOCI A64-80584

UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY IN HOSPITALS JPRS-17534 N64-11004

COMMUNICATION THEORY CF INFORMATION THEORY ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES

COMMUNICATIONS DEVICE PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE ASD-TDR-63-732 N64-14689

COMPASS

S SOLAR COMPASS COMPENSATORY TRACKING

HUMAN TRACKING PERFORMANCE UNDER TRANSVERSE **ACCELERATION** A64-14013

NONLINEAR CHARACTERISTICS OF CLOSED LOOP MANUAL CONTROL SYSTEM WITH COMPENSATORY TRACKING A64-24130

HYPNOTIC CONTROL OF COMPENSATORY TRACKING WITH NORMAL AND REVERSE COMPATIBILITY UNDER DIFFERENT STATES OF AROUSAL A64-807 A64-80713 COMPOSITION

S ATMOSPHERIC COMPOSITION

S CHEMICAL COMPOUND

COMPRESSED AIR

BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS KAPL-M-TL-1

N64-21844

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY

SAM-TDR-63-71

N64-26653

COMPRESSION

CF DECCMPRESSION MEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS N64-19213 FTD-TT-63-300/1&4

COMPUTER

CF ANALOG COMPUTER CF CONTROL SIMULATOR

CF DATA PROCESSING
CF DATA TRANSMISSION

CF DIGITAL COMPUTER

OF FINITE-STATE MACHINE

BIBLICGRAPHY ON COMPUTERS IN LIFE SCIENCES

464-80210

COMPUTATIONAL PRINCIPLES OF LIVING ORGANISMS AND RELATION TO ELECTRONIC HARDWARE

A64-80489

AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL A64-80533 PHENOMENA BY COMPUTERS

CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS

RELATEC TO COMPUTER DIAGNOSIS A64-80733

COMPUTER AND RELATION TO HUMAN PERCEPTION

464-81164

GENERAL PURPOSE COMPUTER, SPECIAL BIOLOGICAL TYPE SYSTEM, SELF-ORGANIZATION, AND CONTROL SYSTEM SIZES AND SCOPES N64-1153

ROLE CF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT N64-14334

CONTROL SYSTEMS, COCING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS JPRS-23700

N64-16860

COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY

N64-17491

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND

MACHINES - BIONICS ASD-TDR-63-946

N64-18826

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING

N64-18827

CYBERNETICS AND DEVELOPMENT OF COMPUTERS

N64-27057

JPRS-25714

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS

N64-12525

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND

CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

COMPUTER METHOD

COMPUTER TO MAN INFORMATION TRANSFER COMPARING TECHNOLOGY WITH INTUITION A64-2: A64-22531

COMPUTATIONAL PRINCIPLES IN LIVING ORGANISMS, COVERING PARALLEL NETWORKS WITH UNALTERABLE INTERNAL STRUCTURE AND DYNAMICALLY ADAPTIVE A64-24405 SYSTEMS

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER

NASA-CR-55689

N64-16324

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS N64-22861

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL N64-27385

NASA-CR-56373

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL

SCIENCES - BIBLIOGRAPHY SP-1025/001/00

COMPUTER PROGRAM

CE CODE CF DATA PROCESSING

STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY

FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM

N64-11534

COMPUTER PROGRAMMING

FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING AMRL-TDR-63-78

N64-11177

COMPUTER SIMULATION

SA ANALOG SIMULATION SA DIGITAL SIMULATION

DIGITAL COMPUTER SIMULATION OF MAN-MACHINE SYSTEMS. SIMULATING HUMAN OPERATOR STRESS, URGENCY

CONDITIONS AND POINT OF BREAKDOWN

A64-12976

HUMAN OPERATOR PERFORMANCE IN COMPLEX MAN-MACHINE SYSTEM SIMULATED, USING BOOLEAN ALGEBRA AND A64-24822

COMPUTER SIMULATION OF ELECTRONIC NETWORK EMULATING PHENOMENON OF CONDITIONED REFLEX

A64-24823

DECISION-MAKING SUBFUNCTIONS FOR SIMULATED COMMAND AND CONTROL SYSTEMS A64-24844

DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER
SYSTEM USING ANALOG COMPUTER TO SIMULATE
PHYSIOLOGICAL RESPONSE A64-25320

COMPUTER SIMULATION OF CARDIOVASCULAR SYSTEM A64-80209 HYDRODYNAMICS

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION N64-1 N64-18839

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698

CONCENTRATION

S ION CONCENTRATION

CONCENTRATOR S COLLECTOR

CONDITIONED RESPONSE

CF LEARNING CF REFLEX

FREQUENCY, AMPLITUDE, LATENCY AND MAGNITUDE MEASUREMENTS OF CONDITIONED EYELID REFLEX

A64-19521

COMPUTER SIMULATION OF ELECTRONIC NETWORK EMULATING PHENOMENON OF CONDITIONED REFLEX

A64-24823

CONDITIONED HEART RESPONSE IN HUMAN IN RELATION TO CONTROLLED AND UNCONTROLLED RESPIRATION

A64-81041

HUMAN CONDITIONED REFLEX POTENTIAL EVOKED BY COMBINED STIMULI OF SOUND AND LIGHT MONITORED BY ELECTROENCEPHALOGRAPH A64-81082

THALAMUS CONTROL OF VOLUNTARY MOVEMENT IN RAT
A64-81179

ADAPTATION OF GALVANIC SKIN RESPONSE UNDER REPEATED PRESENTATION OF VISUAL STIMULUS A64-81201

HYPOXIA AND HYDROSTATIC PRESSURE EFFECTS ON

CONDITIONED REFLEXES IN FISH A64-81288
EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED

REFLEXES IN SEA FISH
NASA-TT-F-189
N64-11564

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER SPACE FLIGHT N64-11676

PHYSICLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS
TPST-985

N64-11946

CONDITIONED REFLEX TO MAGNETISM IN FISH NASA-TT-F-190

N64-12962

EFFECTS CF MASSIVE COSES OF IONIZING RADIATION UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES DASA-NWER-03.008 N64-15993

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES
JPRS-23833 N64-17351

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS

JPRS-24967 N64-21783

SENSORY STIMULATION & CONDITIONED RESPONSE
N64-22418

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL RERCEPTION N64-25139

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144

PATTERN ANALYSIS OF CONDITIONED RESPONSE AND THOUGHT PROCESSES OF HUMAN BRAIN FTD-TT-64-184/164 N64-25951

BICLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX JPRS-26060 N64-28446

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS FTD-TT-64-282/162

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/18284 N64-33102

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE AD-607325 N64-33507

CONDUCTION

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FRCG BY HIGH ENERGY IRRADIATION

N64-29725

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DOG

N64-3146

CONDUCTIVE HEAT TRANSFER
S THERMCCONDUCTIVITY

CONDUCTIVITY

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES

N64-25892

CONFERENCE

SYMPOSIUM ON PHYSIOLOGICAL EFFECTS OF HIGH ALTITUDE AT INTERLAKEN, SWITZERLAND IN SEPTEMBER 1962 A64-23253

PROCEEDINGS OF FIFTH NATIONAL SYMPOSIUM ON HUMAN FACTORS IN ELECTRONICS OF IEEE AT SAN DIEGO, CALIFORNIA IN MAY 1964 A64-24819

PAPERS ON BIDASTRONAUTICS PROBLEMS FROM AMERICAN ASTRONAUTICAL SCCIETY MEETING IN CLEVELAND IN DECEMBER 1963 A64-28338

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942 N64-24606

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY

MAG-2:

ZOOLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE, PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECOLOGY
NASA-CR-59306

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MCRPHOLOGY, AND EVOLUTION

NASA-CR-59305

N64-33514

ZCOLOGY CONFERENCE - NORTH AMERICAN FAUNA, INSECT ENDOCRINOLOGY, NAMMALIAN EVOLUTION, MIMICRY, BLOOD PROTOZOA, CHROMOSOME STRUCTURE, AND ECOLOGY NASA-CR-59304

N64-33515

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES
NASA-CR-59303 N64-33687

CONFINEMENT

PHYSICAL INACTIVITY EFFECT, DISREGARDING
WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING
DURING ORTHOSTATIC TESTING
A64-22060

GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS
AFFECTED BY CONFINEMENT AND EXERCISE
A64-80067

A01 00001

CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO CONFINED GROUPS WITH AND WITHOUT REFERENCE TO CLOCK TIME A64-80747

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY A64-80779

LEADERSHIP AS RELATED TO PSYCHOPHYSIOLOGICAL ACTIVATION OF GROUP MEMBERS DURING CONFINEMENT A64-81205

HUMAN GROUP PERFORMANCE DURING CONFINEMENT ER-6024 N64-15747

CONGENITAL ANOMALY

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY RADIATION SICKNESS, CONCENITAL DISEASE, AND
HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819
N64-10723

N64-10723

CONNECTIVE TISSUE

COLD AND RESTRICTION STRESS EFFECT ON ACID MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT

A64-80514

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE AND REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS FTD-TT-64-329/18264

N64-32544

CONSTRUCTION S SPACECRAFT CONSTRUCTION MATERIAL

CONTACT DERMATITIS CONTACT DERMATITIS OF HANDS OF PILOT DUE TO WEARING UNLINED FLIGHT GLOVES, NO. B3A

A64-80098

CONTACT LENS SINGLE AND DOUBLE MIRROR SYSTEMS USED IN CONTACT LENS TECHNIQUES FOR MEASURING THREE ORTHOGONAL COMPONENTS OF OCULAR ROTATION A64-23796

CORNEAL CONTACT LENSES FOR FLYING PERSONNEL IN MILITARY AVIATION - CLINICAL EVALUATION A64-80401

CONTAINER S TANK

CONTAINMENT CONFINEMENT

CONTAMINANT

SA TRACE CONTAMINANT ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE NRL-6074

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES N64-24609

EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE AND SPACECRAFT EQUIPMENT N64-24613

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE

RARTICLE SIZE CONSIDERATIONS OF AIRBORNE N64-24628 CONTAMINANTS

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY N64-27693 AD-600259

CONTAMINATION SA SPACECRAFT CONTAMINATION CF DECONTAMINATION CF GNOTOBIOTICS

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY

RACIDACTIVE ISOTOPES N64-13320 JPRS-22610

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE N64-15397 JPRS-23284

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR N64-21837

BICLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES FTD-TT-63-664/1

ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES N64-24607

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND N64-24608 MERCURY SPACECRAFT ATMOSPHERES

CONTINUOUS FLOW SYSTEM DROPLET SECTMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION N64-15211 AND GRAVITY

CONTINUOUS NOISE CF IMPULSE NOISE AUDITORY DISCRIMINATION OF IMPULSE AND CONTINUOUS NOISE

CONTINUOUS THEORY CONTINUOUS AND QUANTAL THEORIES OF SENSORY DISCRIMINATION A64-12939 CONTINUUM MECHANICS S DYNAMICS

CONTRACTION

SA CONVULSION ISOMETRIC CONTRACTION OF HAND AND EFFECT ON BLOOD SUPPLY TO FOREARM

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY N64-17928

CONTROL

SA ADAPTIVE CONTROL SA ATTITUDE CONTROL SA AUTOMATIC CONTROL SA BANG-BANG CONTROL SA BIOCONTROL SYSTEM SA COMMAND CONTROL

SA ENVIRONMENTAL CONTROL SA FEEDBACK CONTROL SYSTEM

SA FEEDBACK CONTROL
SA FIRE CONTROL
SA FLIGHT CONTROL
SA MANUAL CONTROL
SA MISSILE CONTROL
SA OPTIMAL CONTROL
SA QUALITY CONTROL

SA REACTION CONTROL SA REMOTE CONTROL SA SERVOCONTROL SA TEMPERATURE CONTROL

HUMAN EYE MOVEMENT TRACKING SYSTEM FOR CONTROL A64-23105 PURPOSES

CONTROL OF RODENT POPULATION AND POTENTIAL VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS A64-80913

CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE A64-81037

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040

GENERAL PURPOSE COMPUTER, SPECIAL BIOLOGICAL TYPE SYSTEM, SELF-ORGANIZATION, AND CONTROL SYSTEM SIZES AND SCOPES N64-11534 N64-11535

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR IAM-TM-226 N64-2582 N64-25828

COMPARISON OF JOY STICK WITH MULTIPLE LEVERS FOR EFFECTIVE CONTROL-EFFECTOR RELATIONSHIPS IN REMOTE MANIPULATOR APPLICATIONS A64-26852

HUMAN FACTORS & CONTROL SYSTEM N64-21945 FTD-TT-63-331/162

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY N64-25172 NASA-CR-83

CONTROL SIMULATOR CF COMPUTER
CF FLIGHT SIMULATOR
REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM EARTH, EXAMINING HUMAN AND SIMULATION ASPECTS A64-23297

CONTROL TOWER
S AIR TRAFFIC CONTROL

CONVECTION CONVECTION IN LOW INTENSITY GRAVITATIONAL FIELDS, AND SIMULATION WITH SIMILAR DENSITY LIQUIDS N64-15212

CONVERSION S ENERGY CONVERSION

CONVULSION CF EPILEPSY COLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND A64-80102 ELECTROSHOCK SEIZURES

CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE SULFATE IN RATS EXPOSED TO OXYGEN UNDER PRESSURE A64-80283 VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS ECCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER HIGH PRESSURE A64-80920

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FORCE CREWS AND RECRUITS
A64-809 A64-80947

BICCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION NASA-TT-F-9121 N64-33400

COOLING

SA LIQUID COOLING SA SURFACE COOLING HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING JPRS-20037 N64-11320

COOLING SYSTEM

- S AIR CONDITIONING S VENTILATION

COPPER COMPOUND COPPER SULFIDE

COPPER SULFIDE CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA — MINERALOGY 8M-RI-6423 N64-18987

CORIDLIS EFFECT

ELECTRICARDIDGRAMS AND PLETHYSMOGRAPHS USED TO STUDY BIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION

HEMATCLOGY AND BIOCHEMICAL STRESS EFFECTS OF CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT

RHYSICLOGICAL EFFECTS OF CORICLIS ACCELERATION A64-80156

VESTIBULAR CORICLIS EFFECT DURING ADDITIONAL LINEAR ACCELERATION A64-80250

LEUKOCYTE, CORTICOSTEROID, AND CATECHOLAMINE RESPONSE TO CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT 464-80921

ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED BY COMPLEMENTARY CORIOLIS ACCELERATION

A64~81120 ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN

LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

~ N64-10432

VESTIBULAR DISORIENTATION DUE TO CORIOLIS **ACCELERATION** N64-16331

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS NASA-CR-58675 N64-28876

CORNEA

IONIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF MITOSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-81308

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM JPRS-24936 N64-21 285

CORGNARY CIRCULATION

HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART

CORONARY CIRCULATION AND HEART METABOLISM IN MAN EXPOSED TO DRY HOT ENVIRONMENT A64-80465 CORONARY FLOW RESPONSE TO HYPOCAPNIA OF DOG INDUCED BY HYPERVENTILATION A64-80829

CONCENTRATION OF CARBON DIOXIDE, HYPERCAPNIA AND EFFECT ON CORONARY CIRCULATION IN DOG

A64-80892

HEART VOLUME, STROKE VOLUME, AND CARDIAC OUTPUT DURING EXERCISE OF OLD MEN COMPARED TO YOUNG MEN A64-81031

CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS SAM-TDR-64-33 N64-29989

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE REPT -- 9 N64-29995

CORRELATION

- AUTOCORRELATION CROSS CORRELATION DATA CORRELATION
- SIMULTANEOUS IMAGE CORRELATION /SIMICOR/

CORROS TON

PRODUCTION METHOD FOR CONTROLLED MICROBIOLOGICAL CORROSION ON TEST SPECIMENS ADN-09-08A-63.1 N64-23899

CORTICOSTEROID

PLASMA 17-HYDROXYCORTICOSTEROID AND ADRENAL SECRETORY RATES OF ALDOSTERONE AND CORTISOL RELATED TO BED REST

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-80636

STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS RESPONSIVE INDOLE SUBSTANCE A64-80675

SECRETORY RATES OF ALDOSTERONE AND CORTISOL MEASURED BEFORE, DURING AND AFTER BED REST A64-80922

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY SAM-TDR-63-11 N64-12366

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS SAM-TDR-63-86 N64-15742

THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE-EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL SAM-TDR-63-101 N64-15746

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE SAM-TDR-63-12

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN SAM-TDR-64-50 N64-31053

COSMIC RADIATION

ENERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY TRAPPED RADIATION AS HAZARDS TO MANNED SPACE TRAVEL A64-11457

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTOLOGICAL ORGANISMS A64-13798

DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD VOSTOK V AND VOSTOK VI SPACESHIPS

A64-18573

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING COSMIC RADIATION EFFECTS ON GENETIC CHARACTERISTICS OF PLANT SEEDS, CELLS AND FRUIT FLIFS A64-18630

WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON REPRODUCTION IN DROSOPHILA MELANOGASTER AND HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA

464-18673

SUBRADIATION EFFECTS ON BIOLOGICAL OBJECTS CONCERNING NATURAL RADIATION ENVIRONMENT

A64-20691

BICLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION METHODS A64-25578

IONIZING RACIATION OPERATIONAL HAZARDS OF SUPERSCRIC TRANSPORT A64-25786

RACIATION FIELD WITHIN SPACE VEHICLES

A64-80173

BICLOGICAL AND MUTATIONAL EFFECTS OF COSMIC A64-80443 RADIATION ON HUMAN SKIN TISSUE

BICLOGICAL AND TECHNOLOGICAL PROBLEMS OF MANNED A64-80602

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE A64-80614

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD SHIELDED COSMIC RADIATION A64-80615

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI INCCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE AND AT SEA LEVEL A64-8061 A64-80616

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL N64-10514

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY N64-11668

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER

BICLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES

N64-11700

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/18284 N64-23335

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS -COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY JPRS-25844

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

REVIEW OF COSMIC RAY EFFECTS ON BIOLOGICAL MATERIAL ON EARTH, IN AIR, AND IN SATELLITE A64-80912

COSMOLOGY

TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BICLOGICAL AND ECONOMIC ASPECTS OF SPACE EXPLORATION A64-80786

FUTURE PLANS FOR SPACE PROBES IN RELATION TO COSMOLOGY, BIOGENESIS AND EXTRATERRESTRIAL LIFE A64-80790

COSMONAUT

S ASTRONAUT

COULOMETER

S MEASURING APPARATUS

COUNTER

S SCINTILLATION COUNTER

COUNTERBALANCE SYSTEM S TEST EQUIPMENT

CRACK

S FAILURE

CRANIUM

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG A64-80 A64-80611

SURVIVAL FOLLOWING CONTROLLED AIRCRAFT CRASHES A64-13996

INJURY REDUCTION AND CRASH SAFETY DESIGN IN AGRICULTURAL AVIATION A64-19141

AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH INJURIES TO PASSENGERS SAE PAPER 851A A64-20759

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD A64-80858

CREATINE

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-1257: N64-12572

CREATININE

BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND
CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO
CENTIMETER WAVES FOR 24 HOURS A64-8071 A64-80715

URINARY CAST FORMATION OF TH-MUCOPROTEIN AND CREATININE EXCRETION DURING EXERCISE

A64-81318

CREW

AIRCREW

ASTRONAUT GROUND CREW

PILOT

SPACECREW

CRITICAL FREQUENCY LONGITUDINAL DEPENDENCE OF DAILY VARIATIONS IN F-2 LAYER CRITICAL FREQUENCY FOR EQUATORIAL REGIONS 464-13978

LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL **FREQUENCIES** NASA-TT-F-9018 N64-23133

CROSS CORRELATION

MODEL FOR INTERPRETING DATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF NOISE IN MASKING SIGNALS

AUTOCORRELATION AND CROSSCORRELATION ANALYSIS OF MARKED RHYTHM IN HUMAN EEG DURING MUSCULAR ACTIVITY

CRYOGENIC TEMPERATURE CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64: N64-13693

CRYOGENICS

S COOLING

CRYSTAL

POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE -**BIOGENESIS** N64-32074 UR-656

CRYSTAL STRUCTURE DEFECT

PLASTIC DEFORMATION

CRYSTALLIZATION

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE N64-32048 DEHYDROGENASE

CULTURE CF EDUCATION CF LANGUAGE INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM JPRS-18092 N64-11211

PHYSICLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/ $\ensuremath{\mathsf{T}}$ NASA-CR-58287

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495

CULTURE TECHNIQUE PHCTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE DXYGEN IN AIR REGENERATION SYSTEM A64-25609

CHLORELLA PYREMIDOSA GROWTH UNDER STIMULATORY AND INHIBITORY EFFECTS OF CULTURE LIQUIDS A64-25611

MASS PRODUCTIVITY OF CHLORELLA IN NONSYMMETRIC BICLOGICAL CULTIVATOR, NOTING IRRADIATEC SURFACE AND SUSPENSION VOLUME REQUIRED FOR GAS EXCHANGE A64-25612

AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BICLOGICAL AIR REGENERATION SYSTEM

CONTINUOUS CULTURE TECHNIQUE FOR GROWTH OF ALGA, CHLORELLA PYRENCIDOSA 7-11-05 AS SCURCE OF SPACE A64-80466

CARBON DIOXIDE CONCENTRATION AS RELATED TO PHCTOSYNTHESIS IN MASS CULTURE OF ALGAE

A64-80608

A64-25613

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY CHLORELLA AND OTHER ALGAE USED IN CLOSED ECCLOGICAL SYSTEMS AS RELATED TO RECYCLING TIME OF GROWTH A64-80784

TEMPERATURE MAINTENANCE, CARBON DIOXIDE AVAILABILITY, NUTRIENT SUPPLY, AND CONSISTENT LIGHTING DILUTION DEVICE FOR CONTINUOUS CHLORELLA A64-81050

CURING

S AGING

CURRENT

- DIRECT CURRENT /DC/
- ELECTRIC CURRENT
- ION CURRENT

CURVE

S NONEUCLIDIAN GEOMETRY

CUTANEOUS PERCEPTION CUTANECUS COMMUNICATION SYSTEM FOR TRANSMITTING LINGUISTIC INFORMATION A64-80019

PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MODALITIES A64-80289

ELECTRECUTANEOUS COMMUNICATION BASED ON LOCUS DIMENSION A64-80309

REVIEW OF VIGILANCE STUDIES A64-80377

SPATIAL ORIENTATION IN MAN VIA VISUAL, KINESTHETIC, LABYRINTHINE, AND CUTANEOUS SENSATIONS 464-80445

CUTANEOUS CODE TRANSFER TO DIFFERENT LOCI

A64-80584

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL. AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

TACTUAL ACUITY CHANGES AND INTERLIMB TRANSFER FOLLOWING OCCLUSION OF CIRCUMSCRIBED AREA OF SKIN A64-80796

AUDITORY STIMULATION BY MODULATED ALTERNATING CURRENT APPLIED TO SKIN OF TOTALLY DEAF HUMAN A64-80833

READING AND COLOR DISCRIMINATION THROUGH A64-81124

REACTION TIME IN HUMAN TO ONSET AND END OF MECHANICAL CUTANEOUS STIMULI A64-81148

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING N64-14595

CYANIDES AND NITRILES FOR RADIATION THERAPY -MEDICAL RADIOLOGY JPRS-26887 N64-32306

CYBERNETICS

CF BIONICS
CF HUMAN ENGINEERING
IONIZING RADIATION EFFECT ON STABILITY OF GENETIC
INFORMATION STORAGE AND TRANSMISSION MECHANISMS IN TERMS OF CYBERNETICS A64-27587

CYBERNETICS ROLE IN SPACE FLIGHT INCLUDING CONTROL CIRCUITS FOR GUIDANCE AND ELECTRONIC EQUIPMENT AUTOMATION AND DEVELOPMENT A64-28379

CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATED TO COMPUTER DIAGNOSIS A64-8073 A64-80733

APPLICATION OF BICCYBERNETICS TO BIOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007

PHILOSOPHICAL ANALYSIS OF BASIC CYBERNETIC MODELS JPRS-21807 N64-10270

CEMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY OF CYBERNETIC MECHANISM JPRS-18873 N64-10506

THEORETICAL ANALYSIS OF STRUCTURE OF TACTILE SENSATION USING CYBERNETICAL CONCEPTS JPRS-19565 N64-10658

BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING TASKS JPRS-17500 N64-10690

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS

JPRS-17544 N64-10695 NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS -

CYBERNETICS JPRS-18372 N64-10759

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787

CYBERNETICS IN EDUCATION AND AUTOMATION JPRS-18832 N64-11058

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES N64-11060

PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS JPRS-19043 N64-11124

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC

MACHINES - CYBERNETICS JPRS-22188

N64-11416

CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE N64-11417 JPRS-22189

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS -SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION

CYBERNETICS AND DEVELOPMENT OF CONTEMPORARY SCIENTIFIC KNOWLEDGE N64-11782

JPRS-22296

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS N64-11917 JPRS-22345

CYBERNETICS IN MEDICINE & PHYSIOLOGY

N64-11918

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/18284

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE N64-12509

PHYSICLOGY & PROBLEMS OF CYBERNETICS

N64-12512

N64-12508

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA N64-12513

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS

N64-12514

N64-12518

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA -N64-12516 CYBERNETICS

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N6 N64-12517

INFORMATION PROCESSING OF PHYSICLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN N64-12519 BRAIN - CYBERNETICS

BICLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS

VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR N64-12522 RETINAL IMAGE - CYBERNETICS

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523

AUTOMATIC TEACHING MACHINE FOR VISUAL N64-12524 PERCEPTION - CYBERNETICS

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS N64-12525

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS N64-12526

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS N64-12527

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL -N64-12528 CYBERNETICS

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS -INTERNAL PROCESS SELF-REGULATION - CYBERNETICS N64-12529

CYBERNETICS AND AUTOMATION - HIGHER NERVOUS

ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES N64-12621

ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE N64-13085 JPRS-22647

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING JPRS-22931 N64-14142

RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS N64-14143 JPRS-22963

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE N64-14333 FTD-TT-63-732/164

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT N64-14334

INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS N64-14530 JPRS-23060

CYBERNETICS N64-14536 JPRS-23132

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS N64-14613 JPRS-18127

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY N64-14944 JPRS-23234

MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO N64-15167 PEDAGOGY

SPEECH SIGNAL TRANSFORMATION FOR USE IN COMMUNICATIONS AND CYBERNETICS TECHNOLOGY N64-15169

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY N64-15417 JPRS-23370

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS RADC-TDR-63-528 N64-15726

CONTROL SYSTEMS, CODING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS JPRS-23700 N64-16860

CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS JPRS-23554

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT N64-17244 JPRS-23749

CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE HYPOTHERMIA PROCESSES N64-20012 JPRS-24504

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS JPRS-24452 N64-20943

CYBERNETICS IN RADIATION THERAPY

N64-20947

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS N64-21125 JPRS-24816

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA N64-22182 FTD-TT-63-521/184

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION N64-26765

JPRS-25761 CYBERNETICS AND DEVELOPMENT OF COMPUTERS N64-27057 JPRS-25714

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTROL

N64-28050 JPRS-26201

PHYSICLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLCATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION FTD-TT-64-386/162 N64-31074

CYSTEAMINE

TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL CULTURES A64-B0964

CYSTEINE

HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY FOLIC ACID AND CYSTEINE A64-B0750

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG NIJS-R-423 N64-21049

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINCETHYLISOTHIURONIUM DIBROMIDE SAM-TDR-64-40 N64-32031

CYTOCHROME

CRITICAL OXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS RELATED TO THE DEGREE OF OXIDATION OR REDUCTION OF CYTOCHROME SYSTEM

A64-13513

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA NADC-MA-6319 N64-12255

CYTOGENESIS

WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON REPRODUCTION IN DROSOPHILA MELANDGASTER AND HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA A64-18673

CYTOL OGY

TOXIC EFFECTS OF ELEVATED DXYGEN LEVELS ON PLANTS, INVERTEBRATES AND HUMAN CELLS A64-10258

CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN TEMPERATURES A64-13516

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTOLOGICAL ORGANISMS

BICLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B CELLS A64-22813

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

ENDOGENOUS PERIODIC GROWTH BAND FORMATION IN NEUROSPORA DEPENDENT ON MEDIUM TEMPERATURE AND COMPOSITION A64-28416

VESTIBULAR RECEPTORS - FINE STRUCTURE AND FUNCTION A64-80302

GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN E. COLI B A64-80362

SUBCELLULAR CHEMICAL AND PHYSICAL CHANGES IN BICLOGICAL SYSTEMS INDUCED BY IONIZING RADIATION A64-80825

INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN RHYTHM OF DXYGEN BALANCE IN CYTOPLASM OF GREEN ALGA, ACETABULARIA A64-81320

BICPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION OF LIFE PHENOMENA JPRS-21966 N64-10329

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT

SPECIES OF IRRADIATED MAMMALS
JPRS-22778

N64-13230

LYSCMES, MITOCHONDRIA, AND GOLGI APPARATUS
ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND
ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION
N64-14609

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS

N64-19495

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI AMRL-TDR-64-52 N64-29974

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDGCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-33513

D

DARK ADAPTION
BLEACHING OF RETINAL PHOTOSENSITIVE PIGMENTS AND
RELATION TO AFTERIMAGES AND VISUAL THRESHOLDS IN
DARK ADAPTATION
A64-1957:

SCOTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED BODY POSITION A64-80140

DASSAULT MIRAGE III AIRCRAFT
MEDICAL ASPECTS OF EJECTIONS FROM MIRAGE III
AIRCRAFT
A64-80768

DATA S INFORMATION

DATA CORRELATION
PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR
MAN-MACHINE SYSTEMS
A64-80546

DATA PROCESSING

CF COMPUTER PROGRAM

CF INFORMATION

DECISION-MAKING SUBFUR

DECISION-MAKING SUBFUNCTIONS FOR SIMULATED LUMMAND AND CONTROL SYSTEMS A64-24844

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING NASA-TN-D-1973 N64-11548

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-12505

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING — CYBERNETICS N64-12523

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM LF-13

HUMAN INFORMATION PROCESSING UNDER TASK STRESS ESD-TDR-63-657 N64-16088

INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED STRESS
REPT.-1129
NA4-22557

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY JPRS-26444

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA

RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR N64-31537 COMPUTER PROCESSING

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT N64-32480 AMRL-TER-64-10

DATA RECORDER

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION

DATA RECORDING

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

DATA REDUCTION OF BIOLOGICAL INFORMATION DURING PROLONGED FLIGHT MISSIONS, NOTING CASE OF ELECTROENCEPHALOGRAMS

A64-25 A64-25556

DATA RETRIEVAL

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL JPRS-19100 N64-10814

DATA STORAGE

CF MAGNETIC TAPE MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

DATA TRANSMISSION

CF COMPUTER COMPUTER TO MAN INFORMATION TRANSFER COMPARING TECHNOLOGY WITH INTUITION A64-2 A64-22531

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION N64-12521 IN RETINA - CYBERNETICS

RHCTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM 464-12989

RECOVERY TIME AFTER EXPOSURE TO GLARE STUDIED AS FUNCTION OF DURATION, INTENSITY, AND CONTRAST A64-80601

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING 464-80925

DC- 8 AIRCRAFT

S DOUGLAS DC-8 AIRCRAFT

DEAFNESS

CF HEARING LOSS
PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING CHARACTERISTICS AND EFFECTS OF AERONAUTICAL NOISE A64-11731

COMPARISON OF BROADBAND NOISE AND CONTINUOUS SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS A64-21334

NOISE INDUCED DEAFNESS IN CAT

A64-80308

AUDIOMETRIC INVESTIGATION OF HEARING LOSSES SUSTAINED THROUGHOUT TEN YEARS OF NOISE EXPOSURE A64-80599

VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS

A64-80799

AUDITORY STIMULATION BY MODULATED ALTERNATING CURRENT APPLIED TO SKIN OF TOTALLY DEAF HUMAN A64-80833

DEATH

MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE 464-80660

RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH N64-10600 JPRS-20013

GELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND

MATHEMATICAL EXPLANATION

N64-11216

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH

DECAY

S DEGRADATION

DECELERATION

CF ACCELERATION CF VELOCITY ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL SEMICIRCULAR CANALS BY ELECTRO- AND **PHOTOELECTRONYSTAGMOGRAPHY**

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENOUS PRESSURE IN THE FOREHEAD

DISTURBANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-A64-80859

DECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED CENTRIFUGATION

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND N64-22075 DECELERATION FORCES

DECELERATOR

S PARACHUTE

DECISION

CF COGNITION
CF STATISTICAL DECISION THEORY VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN MANNED SPACEFLIGHT

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM N64-12319 ESD-TDR-63-608

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS N64-29947 HISAPRO-TRN-145

DECISION ELEMENT

OPERATOR DECISION PERFORMANCE COMPARED FOR PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF OBJECT LOCATION

DECISION-MAKING SUBFUNCTIONS FOR SIMULATED COMMAND AND CONTROL SYSTEMS

DECISION THEORY

VIGILANCE TEST SHOWING EFFECT OF EVENT RATE ON OBSERVATION PERFORMANCE AND NOTING DECISION THEORY A64-15474 APPROACH

RISK-TAKING BEHAVIOR OF INDIVIDUALS AND GROUPS RELATED TO CERTAIN PERSONALITY TRAITS

A64-80211

DECISION-MAKING PROCESSES CONSIDERED WITHIN DIFFERENT THEORETICAL FRAMEWORKS

A64-80380

DECISION-MAKING RELATED TO CERTAIN PERSONALITY A64-80440 **VARIABLES**

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS N64-12527

DECISION THEORY - MEASUREMENTS OF SUBJECTIVE PROBABILITY AND UTILITY PROBLEMS N64-16074 ESD-TDR-63-622

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR AMRL-TDR-63-118 N64-16799

APPLICATION OF STATISTICAL DECISION THEORY TO

DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS NASA-CR-58531 N64-28939

DECOMPOSITION

SA THERMAL DECOMPOSITION CF DEGRADATION

CF DISSOCIATION

CF ELECTROLYSIS

CF HYDROLYSIS

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS AMRL-TER-63-69

DECOMPRESSION

SA EXPLOSIVE DECOMPRESSION CF COMPRESSION

DECOMPRESSION TESTS FOR 8-58 ESCAPE CAPSULE SYSTEM

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-B08

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION FTD-TT-64-134/18284 N64-21973

INCIDENCE OF PHYSICLOGICAL SYMPTOMS IN HEALTHY MEN AFTER EXPOSURE TO RAPID DECCMPRESSION - ALTITUDE SIMULATION TESTS

N64-31886

DECOMPRESSION SICKNESS
PHYSIOLOGICALLY DESIRABLE RELATIONSHIP BETWEEN
OXYGEN CONCENTRATION IN THE INSPIRED GAS AND THE
ABSOLUTE PRESSURE WITHIN A PRESSURE OR SEALED A64-10248

RAPID DECOMPRESSION HAZARDS AFTER PROLONGED EXPOSURE TO 50 PER CENT DXYGEN-50 PER CENT NITROGEN ATMOSPHERE A6 A64-10259

PRESSURE DECREASE EFFECTS ON ANIMALS IN STUDIES OF DECOMPRESSION SICKNESS

HISTOPATHOLOGY OF EXPERIMENTAL DECOMPRESSION SICKNESS IN THE DOG, NOTING BONE MARROW EMBOLI AND FAT EMBOLIZATION

CARDICRESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS, BOTH CAISSON AND ALTITUDE

DECCMPRESSION OF MICE IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN TO TEST HYPOXIC TOLERANCE OF ANIMALS

A64-20 A64-20693

TREATMENT OF SEVERE DECOMPRESSION SICKNESS IN **AVIATORS** A64-80216

RCYAL NAVAL HIGH-ALTITUDE SELECTION TEST AS MEASURE OF DECOMPRESSION SICKNESS SUSCEPTIBILITY A64-80225

TOLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET WEARING STANDARD OXYGEN MASK A64-80268

DECCMPRESSION SICKNESS IN RAT RELATED TO BODY FAT A64-80328

DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND MUSCLES BY EXERCISE A64-804: A64-80411

DECOMPRESSION SICKNESS AT 18,500 FEET - CASE HISTORY OF PILOT A64-80442

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN A64-80499

BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION SICKNESS IN MICE A64-80687

CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS A64-80762

LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT

FAT EMBOLISM ASSOCIATED WITH UNEXPLAINED AIRCRAFT

ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

A64-80803

A64-80791

TIME SPENT AT ALTITUDE, AGE, AND WEIGHT AS RELATED TO DECOMPRESSION SICKNESS A64-80950

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION DVL-273 N64-12751

FAT EMBOLISM DURING DECOMPRESSION

N64-12755

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION N64-12756

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY N64-15042

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECCMPRESSION SICKNESS SAM-TDR-63-94

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

N64-15856

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES N64-26665

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE FPRC-MEMO-199 N64-29768

ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS AD-601600 N64-32400

DECONTAMINATION

CF CONTAMINATION DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN A64-81317

REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775

MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME OPERATION WITHOUT REFUELING EUR-407.F

ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL

N64-24626

DEFENSE

S CIVIL DEFENSE S PHYSIOLOGICAL DEFENSE

DEFORMATION

S PLASTIC DEFORMATION

DEGENERATION

S DECOMPOSITION S DEGRADATION

DEGRADATION

CF CORROSION CF DECOMPOSITION

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIDASSAY METHODOLOGY IPR-6

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -BIDASSAY WITH CHLORELLA AD-605724

N64-30569

DEGREE OF FREEDOM S MULTIPLE-DEGREE-OF-FREEDOM SYSTEM

DEHYDRATION BLCOD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION A64-80271

VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS JPRS-18576

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783

DEIGNIZATION S IONIZATION

DELAY S LAG

DENSITY

S GAS DENSITY

DENTAL CALCULUS ULTRASCNIC DEVICE FOR REMOVAL OF DENTAL CALCULUS N64-10390 JPRS-21998

DENTISTRY SA DENTAL CALCULUS CRAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR **FLIGHTS** N64-10558

HYCROXYCORTICOSTEROIC LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY

N64-12366 SAF-TCR-63-11

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION N64-23046 NASA-TT-F-8851

HEMATCLCGIC CHANGES FOLLOWING TOOTH EXTRACTION N64-30498 SAM-TR-63-82

VACUUM ACAPTATION OF BASEPLATE MATERIALS TO DENTAL CASTS N64-31054 SAM-TCR-64-51

DEOXYRIBONUCLEIC ACID
RADIATION EFFECT ON ORGANISM OF MAMMALS,
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

BICCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-RIBONUCLEIC ACID INTO PROTEIN N64-10566 JPRS-17811

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING N64-12511 OF PROTEIN

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765

INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES N64-12883 JPRS-22050

INHIBITING CAPACITY OF DEDXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N6 N64-12884

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS N64-12885 CONJUNCTIVITIS

INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY N64-13694 IRRADIATION IN LIVER & SPLEEN

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS N64-14428 UCRL-10979

NUCLEIC ACICS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PRCTEIN SYNTHESIS N64-18328 JPRS-24070

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESCXYRIBONUCLEIC ACID

MECHANISM OF REPRODUCTION /REDUPLICATION/ OF N64-18331 DESOXYRIBONUCLEIC ACID

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESCXYRIBONUCLEIC ACID AND PROTEINS

N64-18412

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESCRYRIBONUCLEIC ACID SYNTHESIS

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEGXYRIBONUCLEIC ACID N64-

FLEXIBILITY OF MOLECULES OF NATURAL DNA -DETERMINATION USING LIGHT SCATTERING AT LARGE N64-19783

PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED DEOXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS USNRDL-TR-655

STABILITY OF HETEROGENEOUS DEOXYRIBONUCLEIC ACID TO IONIZING RADIATION JPRS-25282 N64-24487

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DECXYRIBOSIDE IN MAMMALIAN CELLS NASA RP-245

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION

N64-28111

RADIOCHEMISTRY OF PYRMIDINE BASES - ACTION OF RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF BACTERIA FIIR-1646.F

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE

LFEN-NI-11 /ALPHA/

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID N64-30782 UCRL-11387, SUPPL.

RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY

N64-30785

DEPRESSANT EMOTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS WITH CENTRAL NERVOUS ACTION A64-80

DEPRIVATION

SLEEP DEPRIVATION STARVATION

DEPTH PERCEPTION VARIATION OF VISUAL PERCEPTION OF PERCEIVED FRONTOPARALLEL SIZE AND DEPTH WITH OBSERVATION A64-15170

DEPTH EFFECT IN STEREOSCOPICALLY COMBINED LINES A64-19008

INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND A64-80139 PERCEIVED ABSOLUTE DISTANCE

ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION A64-80141

SIZE CONSTANCY- FUNCTIONAL RELATION BETWEEN VISUALLY PERCEIVED SIZE AND DISTANCE A64-80190

DEPTH PERCEPTION FROM BINOCULAR DISPARITY A64-80318

SUBJECT INDEX

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI

A64-80496

PERCEPTION OF RELATIVE SIZE EXAMINED AS SOLE STIMULUS FOR DISTANCE PERCEPTION

A64-80561

SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY A64-B0604 CUES

ACCURACY OF SPACE PERCEPTION AS FUNCTION OF IRREGULARITY AND REDUNDANCY OF SURFACE TEXTURE A64-80714

CEPTH PERCEPTION - EFFECTIVE DIFFERENCE IN INFLUENCE OF RELATIVE SIZE ON PERCEIVED RELATIVE A64-80794 DISTANCE

DEPTH PERCEPTION - LAWS OF BINOCULAR CORRESPONDENCE, DISPARITY, AND INTERSECTION OF VISUAL DIRECTIONAL LINES A64-8 A64-80888

STERECSCOPIC DEPTH PERCEPTION LOSS WITH LOCAL MONOCULAR SUPPRESSION A64-80959

RELATIVE DEPTH JUDGMENT AS FUNCTION OF EYE A64-80974 MOVEMENT

BINCCULAR RIVALRY AND STEREOSCOPIC ACUITY

A64-B1122

STERECCEPTH FROM AFTERIMAGES

A64-81213

SIZE CUE OPERATING IN VISUALLY PERCEIVED DISTANCE A64-81295

VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION BETWEEN PERCEIVED & PHYSICAL DISTANCE CART-63-20 N64-17235

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BINOCULAR DEPTH PERCEPTION AMRL-TCR-63-134 N64-17509

ADJACENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES

CARI-63-28 N64-23619 PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL

PERCEPTION OF DISTANCE TO MOVING OBJECTS N64-25140

INCIVICUAL PECULIARITIES IN DEPTH PERCEPTION WITH OBJECT MOVING AWAY AND TOWARD SUBJECT

N64-25141 KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS

N64-25154 DERMATCLOGY

SA CONTACT DERMATITIS DERMATCLEGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS AMRL-TDR-64-13 N64-18932

TRACE ELEMENTS IN RADIATION DERMATITES N64-25198

DERMATCLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY

JPRS-16055 N64-28631

DESERT ADAPTATION ADAPTION TO DESERT CONDITIONS - A PSYCHIATRIC SURVEY AMONG U.S. ARMY PERSONNEL IN THE LIBYAN SAHARA RELATING FINDINGS TO SENSORY DEPRIVATION A64-80C18

THERMCREGULATORY RESPONSES OF MAN TO HOT DESERT CONDITIONS 464-80427 DETECTION SA SIGNAL DETECTION CF TARGET DISCRIMINATION METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED SENSITIVITY

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK N64-20409

DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND NASA-CR-56520 N64-22780

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION JPRS-25986 N64-27668

DETECTOR SA LIFE DETECTOR
SA SOUND DETECTOR
BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE SID-63-755 N64-10137

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS JPRS-21771 N64-10205

DEUTER TUM S HYDROGEN

DEUTERIUM OXIDE
EFFECT OF DEUTERIUM OXICE ON PROPERTIES OF DESCRYRIBONUCLEIC ACTO AND PROTFINS N64-18412

DEVICE

CONTROL DEVICE

ERROR CORRECTING DEVICE S

FEEDING DEVICE SAFETY DEVICE SAMPLING DEVICE

DIAGNOSIS CF FUNCTION TEST TETRAETHYLLEAD INTOXICATION DIAGNOSIS

A64-80196

ELECTROCARDIOGRAPHIC CHANGES DURING WORK AND PROLONGED EFFORT A64-80228

PATHOLOGICAL AND PSYCHOLOGICAL EFFECTS OF WHIPLASH INJURY A64-80233

WHIPLASH INJURY - MECHANICS, SITE OF INJURY, DIAGNOSIS. AND TREATMENT A64-80557

DESIGN

S COMPUTER DESIGN

EXPERIMENT DESIGN

DIAGNOSIS AND TREATMENT OF CORNEAL ENDOTHELIAL

DYSTREPHY IN FLYING PERSONNEL

CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATEC TO COMPUTER CIAGNOSIS A64-80733

EARLY CIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING A64-80865 ATRCREW

PENTABORANE INTOXICATION DIAGNOSED WITH ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT A64-81C46 **TECHNIQUE**

POLYGRAPHIC METHOD FOR MONITORING PHYSICLOGICAL RESPONSE IN AUTOMATIC DIAGNOSIS OF HYPOXIA 464-81285

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING PUSSIELE DIAGNOSIA TECHNIQUE FOR DETERMINED BODY REACTION TO SMALL ODSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA N64-15679

ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS N64-16668 JPRS-23590

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS N64-16945 ORTNS-43

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING N64-23444

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR N64-23698 DIAGNOSIS OF HEART MALFUNCTION

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS N64-30239

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM N64-339C7 AMRE-TER-64-51

DIAGRAM S GRAPH

DIAPHRAGM RIB CAGE AND DIAPHRAGM CONTRIBUTIONS TO VENTILATION IN MAN

A64-80765

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING

N64-17929

EFFECT OF NEUROMUSCULAR BLOCKING AGENT ON DIAPHRAGM TISSUE OF RAT N64-30538 AD-439674

DIET SA SPACE FLIGHT FEEDING CF NUTRITIONAL REQUIREMENTS CF STARVATION DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS

SPACE FEEDING PROBLEMS SURVEYED

A64-80C89 464-80199

FECAL FLORA IN MAN UNDER NORMAL CONDITIONS AND IN SPACE FLIGHT SIMULATION WITH SPECIAL DIET A64-80822

NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED DIET FOR SPACE FLIGHT MISSION A64-80863

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL EXERCISE

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS CF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-1 N64-12444

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES N64-21094 SAM-TOR-63-63

AMINO ACIDS IN HUMAN DIET - NUTRITION STUDY N64-23308 FTD-TT-64-148/184

CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN NASA-CR-59003 N64-33044

DIFFRACTION S LIGHT TRANSMISSION

DIFFRACTOMETER S PARTICLE SIZE

DIFFUSION SA OSMOSIS SA PERFUSION OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL N64-14583

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES AD-437359 N64-248

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395

DIGESTIVE SYSTEM CF INTESTINE CF STOMACH RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM N64-27367 NASA-TT-F-9026

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECERDING INSTRUMENTATION N64-31074 FTD-TT-64-386/182

DIGITAL COMPUTER CF ANALOG COMPUTER ARTIFICIAL INTELLIGENCE GENERATED BY NATURAL EVOLUTION PROCESS A64 A64-24824

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER N64-10742 JPRS-18126

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNCRMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM N64-30493 REPT.-11

DIGITAL SIMULATION DIGITAL COMPUTER SIMULATION OF MAN-MACHINE SYSTEMS, SIMULATING HUMAN OPERATOR STRESS, URGENCY CONDITIONS AND POINT OF BREAKDOWN

DIMETHYL HYDRAZINE PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS,
PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF
ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION A64-10250

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR IN JAVA MONKEY

BIOCHEMICAL AND PHARMACCLOGICAL STUDIES OF DIMETHYLHYDRAZINE

AMRL-TER-63-127

N64-16584

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS

AMRL-TER-64-48

N64-29938

DICXIDE S NITROGEN DIOXIDE

DIPHENYL HYDANTOIN ANCXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY
AND ELECTROENCEPHALOGRAM AS AFFECTED BY
DIPHENYLHYDANTOIN, TRIMETHADIONE, IODOACETATE, AND A64-80800

DIRECT CURRENT /DC/
CF ALTERNATING CURRENT /AC/
DIRECT-CURRENT EFFECT ON ULTRABOUNDARY INHIBITION IN DOGS

N64-12725

DISCHARGE S GAS DISCHARGE

DISCRIMINATION SA TIME DISCRIMINATION

NOISE EFFECTS ON DISCRIMINATION REACTION TIME A64-80010

BISECTION OF DESIGNATED VISUAL SPACE AS FUNCTION OF LUMINANCE AREA AND SEPARATION OF FIDUCIAL LINES A64-81300

FACTORS AFFECTING PHOTOGRAPHIC CHANGE CISCRIMINATION

N64-10533

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY AMRL-TCR-64-19 N64-22566

DISEASE

CF AIRBORNE INFECTION CF ASTHMA

CF EPILEPSY

CF LEUKENTA

CF NEURASTHENTA

CF PARASITIC DISEASE

CF PATIENT

CF PNEUMCTHORAX

CF POLIOMYELITIS CF SCHIZOPHRENIA

CF SMALLPOX

INTERVERTEBRAL DISK DISEASE IN FLYING PERSONNEL A64-13994

CYPERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATED TO COMPUTER DIAGNOSIS A64-80733

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING 464-80865

PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT SAM-TDR-64-9 N64-22506

MICROWAVE TREATMENT OF DISEASES JPRS-26038

N64-27670

INTERCEPENDENCE OF FACTORS LEADING TO CORONARY REPT -- 9 N64-29995

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD N64-33993

DISPLAY SYSTEM

CF IMAGE

EFFECT OF ADDING BODY MOTION CUES, PROVIDED BY
VEHICULAR MOTION, UPON THE INTERPRETATION OF
OUTSIDE-IN AND INSIDE-OUT VISUAL DISPLAY

A64-10260

INPUT FACTORS AFFECTING ACCURACY WITH WHICH OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET A64-21610

INTEGRATED GUIDE FOR DESIGNERS OF DISPLAYS FOR COMPLEX SYSTEMS A64-22080

PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM MANUALLY CONTROLLED VEHICLES A64-23300

RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND CONTROLLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS A64-24126

OPERATOR DECISION PERFORMANCE COMPARED FOR PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF OBJECT LOCATION

MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION. USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST TIME CUTPUT SOLUTION A64-7

AIRCRAFT ENGINE INSTRUMENT DISPLAY TYPES IN DISCUSSING EASE OF READING, ACCURACY, COMPLEXITY AND SPACE

MAN-MACHINE INTERACTION MODELS USED TO SHORTEN PRELIMINARY SYSTEM DESIGN A64-24845

CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK A64-25202

VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN PERFORMANCE FOR VIGILANCE TASKS

A64-26850

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY, CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO TWO-HAND CRANKING TASK A64-26851

DISPLAY UPDATE RATE EFFECTS ON IMMEDIATE MEMORY OF HUMAN MONITOR IN CONTROL SYSTEM

A64-26853

HEAD-UP DISPLAY SYSTEM FOR LOW FLYING OVER HILLS AND POOR WEATHER APPROACHES A64-28588

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION N64-26609

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION NAVTRADEVCEN-1303-3 N64-26953

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION AD-601973 N64-30646

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES RADC-TDR-64-266 N64-31695

DISSOCIATION CF ELECTROLYSIS OXYGEN DISSOCIATION CURVE DETERMINATION -

POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

DISTANCE PERCEPTION DEPTH PERCEPTION

PERSPECTIVE

DISTRIBUTION

PROBABILITY DISTRIBUTION

DIURESIS

WATER INTOXICATION & DIURESIS IN ADRENAL

INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OS MOREGULATION N64-33397 NASA-TT-F-9115

DIURNAL RHYTHM AFTEREFFECT OF SLEEP DEPRIVATION ON VIGILANCE AND CHCICE SERIAL REACTION RELATED TO DISTURBED DIURNAL RHYTHM

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE

SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS -PHYSICLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MAMMAL

CIRCADIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRONAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT

DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION IN TWO STRAINS OF MICE 464-80726

DIURNAL MITCTIC RHYTHM IN TISSUE CULTURES OF A64-80881 MONKEY KICKEY

PHYSICLOGY OF DIURNAL RHYTHMS

A64-80943

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM A64-81 C56 OF ROCY FUNCTION

DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL CIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM 464-81118

ICNIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF MITCSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-813C8

DIURNAL VARIATION DIURNAL VARIATION IN BODY TEMPERATURE DURING RAPID AIR TRANSPORTATION ACROSS LONGITUDES 464-80406

DIURNAL TEMPERATURE VARIATION OF CYNOMCLGUS MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN ROUTINE LIGHTING A64-80 A64-80591

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

A64-80823

DIURNAL VARIATION IN PLASMA VOLUME AND HEMOGLOBIN CONCENTRATION OF NORMAL AND HYPERTENSIVE SUBJECTS TREATED WITH GUANETHIDINE OR OTHER DRUGS A64-81095

DIURNAL VARIATIONS OF GASTRIC SECRETION IN 464-81312 MONKEY

DNA

S DEGXYRIBONUCLEIC ACID

DOCKING PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR N64-12715 NASA-TN-0-2036

DOFRFLER-STEWART TEST HEARING LOSS DETERMINED BY MODIFIED DEERFLER-STEWART TEST A64-

DOG STRESS REACTION EVOKED BY FORMALIN INJECTION — MANIFESTATION IN HIGHER NERVOUS ACTIVITY OF DOGS A64-80041

REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN A64-80042 PROLONGED EXPERIMENTS

BRAIN CXYGEN TENSION IN DOGS DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION A64-80043

EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF

ANESTHETIZED DOG TO HYPOTHERMIA

A64-80049

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA

A64-80053

CEREBROSPINAL FLUID AND PLASMA BICARBONATE AND ELECTROLYTES IN DOG IN ACUTE AND PROLONGED A64-80085

DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM OF A64-80086 HYPOTHERMIC DOGS

HEMATOCRIT RATIO AND SURVIVAL OF UNACCLIMATIZED DOGS AT SIMULATED ALTITUDE A64-80 A64-80103

PRESSURE BREATHING PATTERN VARIATION AND ALVEOLAR A64-80106 ARTERIAL GRADIENTS IN DOGS

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DCG AND RHESUS MONKEY A64-80113

HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC OXYGEN A64-80154

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY A64-80195

PENTABORANE TCXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION A64-80204

COMPUTATION OF BLOOD FLOW VELGCITY FROM PRESSURE PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC FLOWMETER

NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG

BRAIN OXYGEN TENSION IN DOG DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION A64-80359

CARDIOVASCULAR RESPONSE TO ACUTE HYPOCAPNIA DUE TO A64-80407 OVERBREATHING

PHYSICLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT ON ANIMALS AND MEN - A REVIEW A64-80488

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY A64-80493 RESTRICTION ON DOG

ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN UNANESTHETIZED DOGS AT 21,000 FEET A64-80519

NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND A64-80559 RABBIT

HYPOTHERMIC EFFECT ON GLYCOLYSIS AND OXYGEN CONSUMPTION IN DOG KIDNEY A64-80569

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG A64-80611

SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND DOG EXPOSED TO PROLONGEC VIBRATION 464-80725

LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY NEGATIVE PRESSURE BREATHING OF 100 PER CENT DXYGEN A64-80738 IN DOG

RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN A64-80753 DOG INHALING OXYGEN

CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS A64-80762 IN DOG

CXYGENATION OF BRAIN TISSUE IN DOG DURING BREATHING OF VARIOUS CONCENTRATIONS OF CARBON DICXIDE AND OXYGEN A64-B0793

FORWARD ACCELERATION EFFECT ON BLOOD CXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT CXYGEN A64-80817

CORONARY FLOW RESPONSE TO HYPOCAPNIA OF DOG INDUCED BY HYPERVENTILATION A64-80829

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-80830

PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG DURING SURFACE HEATING A64-80874

CONCENTRATION OF CARBON DIOXIDE, HYPERCAPNIA AND EFFECT ON CORONARY CIRCULATION IN DOG

A64-B0892

CYANDSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

VENTILATORY RESPONSE OF DCG TC INTERMITTENT INSPIRED CARBON CIOXIDE A64-80993

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY
HYPERVENTILATED DDG AS RELATED TO PH AND CARBON
DIOXIDE TENSION A64-B1C09

CIRCULATORY RESPONSE TO HYPOXIA IN UNANESTHETIZED COG WITH AND WITHOUT CARDIAC DENERVATION

A64-81061

CAROTIC SINUS DEPRESSOR REFLEXES OF DOG DURING HYPOTHERMIA A64-81062

RADIATION PROTECTIVE EFFECT OF PYRIDDXAL-5-PHOSPHATE IN RAT AND DOG A64-81092

SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS A64-81094

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

LOCAL REGULATION OF BLOOD FLOW IN SKELETAL MUSCLE OF DOG A64-81133

PATHOGENESIS OF HIGH-ALTITUDE EMPHYSEMA WITH AND WITHOUT PRESSURE RREATHING A64-RIISR

CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND DXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN MAN AND DOG A64-81209

ADRENALIN EFFECT ON RELATIONSHIP BETWEEN OXYGEN NEED AND SUPPLY IN HEART IN DOG

A64-81210

AUTOREGULATION OF BLOOD CIRCULATION IN SKELETAL MUSCLE OF DOG A64-81236

BLCCD FLCW RATE, VENOUS PRESSURE, AND OXYGEN EFFECT ON BLOOD FLOW RESISTANCE IN DOG FORELIMB

A64-81237

EVIDENCE FOR TISSUE OXYGEN DEMAND AS MAJOR FACTOR IN AUTOREGULATION IN DOG A64-81238

CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249

HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF ERYTHROCYTES IN YOUNG AND MATURE DOG

A64-81250

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL
RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG
64-81251

POLAROGRAPHIC METHOD FOR STUDY OF DXYGEN SATURATION OF BRAIN TISSUE IN DOG

A64-81254

OXYGEN SATURATION IN BRAIN TISSUE IN DGG INHALING VARIOUS GASEOUS MIXTURES A64-81255

OXYGEN SATURATION AND TEMPERATURE OF BRAIN TISSUES UNDER CONDITIONS OF PHYSIOLOGICAL STRESS DETERMINED BY POLAROGRAPHIC METHOD IN DOG A64-81256

ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO HYPOXIA A64-81258

DEPRESSION OF OXYGEN CONSUMPTION AND CARBON DIOXIDE REMOVAL IN PRESSURE BREATHING UTILIZING MASK A64-81265

HIGH ALTITUDE EFFECT ON SALIVARY SECRETION AND KIDNEY FUNCTION IN DOG A64-81277

KIDNEY FUNCTION AT HIGH ALTITUDE IN DOG

A64-81278

NEURDHUMORAL CHANGES IN BLOOD OF DOG AND DOMESTIC FCML AT HIGH ALTITUDE A64-81279

INHIBITOR OF THYROID AND EFFECT ON ADAPTATION TO HIGH ALTITUDE IN DOGS A64-81280

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS -DYNAMICS OF ACUTE RADIATION SICKNESS JPRS-21775 N64-10206

SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES

N64-10389

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DCGS WITH SODIUM GALLATE
JPRS-19269 N64-11349

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION

N64-11524

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674

BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT

N64-11690

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

N64-11699

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG

UCD-107	N64-12111	OXYGEN TENSION IN LIVING BRAIN TISSUE OF	DOG
BONE MARROW TRANSPLANTATION EFFECT ON DOG ACUTE RADIATION SICKNESS	S WITH	DURING LONG ACCELERATION FTD-TT-63-848/182	N64-29278
	N64-12149	CHANGES IN CEREBRAL METABOLIC PARAMETERS	OF DOGS
REDUCEC SET POINT TEMPERATURE IN EXERCISI	NG DOG N64-12219	34H-10K 04 11	N64-29288
BICLOGICAL EFFECT OF LOW COSES OF RADIOAC ISCTOPES - SODIUM-24 AND PHOSPHORUS-32 IN	i RATS,	CATHETER-TIP FLOW METER FOR MEASUREMENT C CORONARY ARTERIAL BLOOD FLOW IN DOGS SAM-TDR-64-33	N64-29989
REELIST AND DOCS	N64-12433	MCRPHOLOGICAL CONNECTIONS AND RESPONSES ANALYZER IN CEREBRAL CORTEX OF DOG	F VISUAL
DIRECT-CURRENT EFFECT ON ULTRABCUNDARY INHIBITICN IN COGS	N64-12725	ANALYZER IN CEREBRAL CONTEX C. 200	N64-31462
PROTEIN METABOLISM IN DOGS GIVEN TREATMEN	T FOR N64-12780	PATHS FOR PRIMARY SPECIFIC INFORMATION (IN VISUAL ANALYZER SYSTEM OF DOG	ONDUCTION
ACUTE RACIATION SICKNESS	N04-12100		N64-31463
INCCULATION OF COG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST LF-10	N64-13344	INTERACTION OF EXCITATION & INHIBITION PI IN ACOUSTIC ANALYZER OF DOG IN RESPONSE TONES	ROCESSES TO PURE N64-31464
REPEATED POSITIVE ACCELERATION OF LOW IN LONG DURATION - ANATOMICAL STUDY OF DOG	TENSITY & Kidney N64-13462	ENDOCRINE AND METABOLIC RESPONSE OF REST DOGS TO WHOLE-BODY VIBRATION AMRL-TDR-64-54	RAINED N64-31943
RECTAL TEMPERATURE OF WORKING SLED DOGS	IN LOW	HEMATOLOGICAL. BIOCHEMICAL, AND MORPHO	GICAL
TEMPERATURE ENVIRONMENT AAL-TDR-63-40	N64-13633	CHANGES IN DOGS DURING RECOVERY PERIOD F RADIATION SICKNESS	ROM N64-32780
EFFECTS OF EXTERNALLY APPLIED PHYSICAL VON TISSUES OF COG EYE	IBRATION	DOLPHIN	
AMRL-TCR-63-120	N64-14696	COMMUNICATION BETWEEN MAN AND OTHER SPEC DOLPHIN STUDIES	
CARDIGRESPIRATORY RESPONSES OF ANESTHETIZ TO COMPRESSION THERAPY FOLLOWING EXPERIME DECOMPRESSION SICKNESS SAM-TDR-63-94	ZED DOGS ENTAL	NASA-CR-56530	N64-22791
	N64-15744	BIOLOGICAL COMMUNICATIONS RESEARCH - COM BETWEEN DOLPHINS NASA-CR-53228	N64-23391
TOXICOLOGY - EFFECTS OF ENDRIN INSECTICING CARDIOVASCULAR SYSTEM CARI-63-16	DE ON DOG	DOSAGE	
	N64-16541	SA RADIATION DOSE EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON	
TECHNIQUES FOR MEASURING INTRAPLEURAL AN PERICARDIAL PRESSURES IN DOGS AMRL-TDR-63-107	NG4-16809	COAGULATION INHIBITION BY HIGH-WEIGHT PC	N64-31343
CXYGEN & CARBON DICXIDE TENSIONS IN DOG VEIN	PULMONARY N64-17943	DOSIMETER RADIATION HAZARD IN X-RAY CLINICS, CAPAC DOSIMETER FOR X-RAY AND GAMMA RADIATION, ELECTROKYMOGRAPHS	, AND
DISTRIBUTION OF LUNG DIFFUSING CAPACITY ANESTHETIZED DOG - BLOOD FLOW	IN N64-17946	JPRS-17533	N64-10561
CHANGES IN ARTERIAL LACTIC ACID OF DOGS	AT HIGH	GLASS MICRODOSIMETER ROC MEASUREMENT OF DOSE WITHIN TISSUE UR-651	N64-31059
SAM-TER-64-2	N64-18886	DOSIMETRY	
ADDITION OF MODES OF RADIATION INJURY IN LETHALITY IN DOGS, MICE, AND RATS UR-654	N PRODUCING N64-20696	COSMIC RADIATION HAZARD FOR MANNED SPACE PHARMACOLOGICAL PROTECTION, PHYSICAL & LOSIMETRY	BIOLOGICAL N64-10514
MEASUREMENT OF ISOMETRIC CONTRACTION AN TIME BY VIBROCARDIOGRAM OF ANESTHETIZED	DOG	RACIATION DOSE DISTRIBUTION IN MODEL AS AMRL-TDR-64-9	TRONAUT N64-18629
OCCUPANT OF DOCUMENTS OF DOCUMENTS	N64-21346	ANALYSIS TECHNIQUES FOR NEUTRON FOIL AN DOSIMETRY	D GAMMA
CATECHOLAMINES IN VARIOUS ORGANS OF DOG CONDITIONS OF DEEP HYPOTHERMIA	N64-22142	AFSWC-TDR-62-107	N64-21523
FTC-TT-63-1096/182 EFFECTS OF INSECTICIDE ENDRIN ON RENAL F		PROBLEMS OF RADIATION DOSIMETRY IN X-RADIAGNOSIS AND TREATMENT	Y N64-22732
HEMODYNAMICS IN DOGS CARI-63-26	N64-23700	DOSIMETRY FOR RADIATION DAMAGE STUDIES	N64-25205
X-RAY IRRADIATION EFFECTS ON WORK CAPACI Lifespan of DOGS UCD-472-109	ITY AND	FAST NEUTRON SPECTRUM AND DOSIMETRY OF	REACTOR
	N64-25111	MEDICAL THERAPY FACILITY BEAM Mitne-47	N64-25472
EFFECT OF STRONTIUM 90 AND RADIUM 226 C UCC-472-110	N64-26043	RADIATION DOSIMETRY ABOARD MERCURY /MA- SPACECRAFT	
CHANGES OF HEMATOPOIETIC TISSUE IN DOG RACIATION SICKNESS AFTER BONE MARROW TR JPRS-25251	WITH ACUTE RANSPLANT N64-26055	NASA-TN-D-1862 Dosimetric data evaluation on solid and	N64-28320
NORMAL VARIATIONS OF VECTORCARDIOGRAM (BREAKDOWN OF SHIELD THICKNESS FOR APOLL RADIATION HAZARD IN SPACE FLIGHT	
IN DOG, CAT, AND RABBIT JPRS-25599	N64-27318	NASA-CR-59266	N64-33284

N64-19825

N64-32400

DOUGLAS DC-8 AIRCRAFT PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED HUMIDITY IN THE CABIN OF A COUGLAS DC-8 AIRLINER CURING CCMMERICAL FLIGHT A64-800 ECCLOGICAL SYSTEMS N64-24617 A64-80025 DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE NASA-RP-262 WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING RRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS N64-25975 EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND N64-32C66 ORTHOSTATIC TCLERANCE CARI-63-34 DRIVE N64-26845 INCREASED HEART RATE AFFECTING PSYCHOMOTOR ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS PERFORMANCE A64-8C138 PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF REPT -- 597 N64-16089 VISUAL PERCEPTION AD-447092 DRUG CF ANESTHETIC DRY HEAT CF ANTIBIOTICS REVIEW OF BIOLOGICAL AND PHYSICAL FACTORS IN DRY CF ANTIHISTIMIC CF BARBITURATE HEAT STERILIZATION CF CENTRAL NERVOUS SYSTEM DEPRESSANT CF CENTRAL NERVOUS SYSTEM STIMULANT DRY HEAT STERILIZATION OF SPACE PROBES BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS
INFLUENCING EFFECTIVENESS CF DOSAGE CF PHARMACOLOGY NASA-CR-58285 CF TRANQUILIZER TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND DRIHOSTATIC DUAL CENTROL PROBLEM
S LINEAR PROGRAMMING TOLERANCE A64-22057 DUFFING EQUATION CHEMICAL PROTECTION OF THE BODY AGAINST IONIZING S PROBABILITY RACIATION A64-80144 **DUNALIELLA** LOSS OF CONSCIOUSNESS ASSOCIATED WITH POISONS, INCLUDING CARBON MONOXIDE, AND VARIOUS DRUGS OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELIA A64-80716 SALINA CELLS N64-23657 PRCPOSED UNIVERSAL SYMBOL TO WARN AVIATION PERSONNEL OF ADVERSE DRUG EFFECTS DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS JPRS-21771 ELECTRENYSTAGMOGRAPH RECORDING OF RESPONSE TO N64-102C5 VARIEC LIGHT AND SOUND, MENTAL PROBLEMS, ACTIVITY, AND CHEMICAL FACTORS RELATED TO TRAVEL SICKNESS INDGCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC A64-80980 BLOCD FLOW DURING EXERCISE IN UPRIGHT MAN ATRCPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RADIANT HEATING OF TRUNK A64-80998 SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDING DRANGE DYF VENTILATERY RESPONSE TO EXCESS CARBON DIOXIDE AND JPRS-22521 HYPOXIA AND RELATION TO DRUG EFFECT WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON NASA-TT-F-9056 METABLLISM N64-31445 JPRS-21472 DYNA-SOAR SPACE GLIDER S X-20 AIRCRAFT PSYCHCPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT DYNAMIC RESPONSE EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE JPRS-22042 N64-11269 NASA-TN-D-2067 ANTIHYPERTENSIVE DRUG SYNTHESIS N64-24815 JPRS-22524 DYNAMIC STABILITY
HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC
STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO N64-12146 RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSICLOGY OF MUSCLE RELAXANTS JPRS-22995 N64-14C74 REPT.-2-59740/3R-479 N64-15343 ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE DYNAMICS SA AERODYNAMICS N64-15041 SA BIODYNAMICS SA GAS DYNAMICS
SA HYDRODYNAMICS DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM JPRS-23254 N64-15382 SA THERMODYNAMICS CF KINETICS DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950 N64-15383 DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL

A-81

N64-24064

N64-24612

ELECTRONARCOSIS OF LOWER VERTEBRATES AND

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS

FTD-TT-63-931/162

COMBINATION WITH DRUG NARCOSIS IN MAMMALS

PROTEINOID

AD-601600

ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS

E

EAR

SA COCHLEA
ACCUSTIC REFLEX OF MIDDLE EAR UPON STEP
STIMULATION OF WHITE NOISE STUDIED BY VARIATION CF
INPUT IMPEDANCE TO HUMAN SUBJECTS

A64-2380

ACCUSTICAL IMPEDANCE PRESENTED TO EARPHONES BY HUMAN EAR IS CRITICAL DESIGN FACTOR OF ACCURATE ARTIFICIAL EAR A64-26636

CRIGIN OF SINUSITIS AND OTITIS AND MECHANISM OF BARCTRAUMA IN AVIATORS AND TRAVELERS A64-B0264

MONAURAL ADAPTATION TO SOUND AND EFFECT OF NOISE EXPCSURE IN CONTRALATERAL EAR A64-80372

INCREASED DXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN STMULATOR A64-80627

EAR AS FREQUENCY ANALYZER

A64-81235

BLCCD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL MONKEYS

NASA-CR-55517 N64-16328 STUDY CF VESTIBULAR SUPPRESSION PHENOMENA IN CATS

AMRL-TCR-63-119 N64-16810
HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF

GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS
SUBJECTED TO RADIAL ACCELERATION
JPRS-23837
N64-1808

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER

ARL-TDR-64-1 N64-18650
MEDICAL RESEARCH IN AUDIOLOGY - FUNCTION OF AUDITORY ANALYZER AND INSTRUMENTS FOR EAR SURGERY

JPRS-24519 N64-20229
NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR

MUSCLES REPT.-1128 N64-25125

ROLE OF PINNA IN HUMAN LOCALIZATION AD-600151

N64-30491

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSICLOGY NASA-CR-59374 N64-33906

EAR PRESSURE TEST
MIDDLE EAR PRESSURE DETERMINED BY MASTOID PUNCTURE
TECHNIQUE
A64-80307

EARTH

HYDROCARBONS OF TERRESTRIAL SAMPLES AND ORGUEIL METEORITE ANALYZED, SHOWING THAT ALKANES ARE BEST INDICATORS OF FORMER LIFE ON EARTH

A64-18644

CHEMICAL ORIGINS OF LIFE ON EARTH AND OTHER PLANETS A64-80529

EXTRATERRESTRIAL LIFE AS RELATED TO ORIGIN OF TERRESTRIAL LIFE A64-80530

ORIGIN OF LIFE IN SPACE COMPARED TO THAT ON EARTH
A64-80917

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-RP-94
N64-13168

EARTH ATMOSPHERE EVIDENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON

EARTH AND IN SPACE

A64-80942

EARTH ORBIT
SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD
IN EARTH ORBIT

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021 N64-2

ECHO SUPPRESSION
S VOICE COMMUNICATION

ECOLOGICAL SYSTEM
SA CLOSED ECOLOGICAL SYSTEM
SELF-MAINTAINING PHOTOELECTRIC CELL OF BLUE-GREEN
ALGAL MAT AND BACTERIA AS LAYERED ECOSYSTEM IS
EXAMINED FOR ELECTRICAL AND ORGANIC POTENTIAL
ENERGY
A64-14152

SUBRADIATION EFFECTS ON BIOLOGICAL OBJECTS CONCERNING NATURAL RADIATION ENVIRONMENT

A64-20691

A64-80786

ECOLOGY
RADIOACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY HYDROBIOLOGY
JPRS-20614
N64-10593

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS NASA-CR-55423 N64-16325

ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWER-PLANTS TID-19562 N64-165

GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIPS OF LIVING ORGANISMS WITH ENVIRONMENTAL FACTORS JPRS-24978 N64-21481

ECONOMICS
TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL,
BIOLOGICAL AND ECONOMIC ASPECTS OF SPACE

EXPLORATION A64-807

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING

ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN AIRCRAFT FLIGHT SAFETY N64-22042

EDEMA WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA

WATER AND MINERAL METABOLIC WASTE IN INSULIN EUCHA NASA-TT-F-9112 N64-33395

CYBERNETICS IN EDUCATION AND AUTOMATION
JPRS-18832
N64-11058

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059

MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO PEDAGOGY N64-15167

S ELECTROENCEPHALOGRAM

JPRS-22931

EFFECT

EDUCATION

S BIOLOGICAL EFFECT S CHEMICAL EFFECT

S GRAVITATIONAL EFFECT S HALL EFFECT S HEAT EFFECT

S LONG PERIOD EFFECT S PELTIER EFFECT

S PELTIER EFFECT S TEMPERATURE EFFECT S VESTIBULAR EFFECT

S VIBRATION EFFECT

EGG S EMBRYO

EINSTEIN EQUATION
S RELATIVITY THEORY

EJECTION

CF BAILOUT AT SUBSONIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION

RAPID ACCELERATION EFFECT ON SYMPATHICOTONIC CHARACTER OF ELECTROCARDIOGRAM IN PILOTS EJECTED FROM CATAPULTS

INJURIES SUSTAINED CURING HIGH SPEED EJECTION FROM ATRCBAFT A64-13749

EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES A64-20698

SURFACE WIND VELOCITIES CORRELATED WITH PARACHUTE LANDING INJURIES A64-27602

EJECTION SEAT INJURIES IN ROYAL CANADIAN AIR FORCE AS RELATED TO EQUIPMENT AND TRAINING A64-80175

VERTEBRAL FRACTURES AS RELATED TO EJECTION SEAT

DESIGN, POSTURE, AND EJECTION FORCES A64-80501

EJECTION SEAT ACCELERATIONS AND INJURIES OF VERTERRAL COLUMN A64-80504

INJURIES SUSTAINED DURING SURVIVABLE SONIC

EJECTION WITH FRENCH E. 96 AND E. 97 SEATS A64-80669

MEDICAL ASPECTS OF EJECTIONS FROM MIRAGE III **AIRCRAFT** A64-80768

EJECTION SEAT

ROCKET ASSISTED EJECTION ADVANTAGE OVER BALLISTIC EJECTION, CONSIDERING SYSTEM MALFUNCTION, PILOT INJURIES, ACCIDENT CAUSES AND ALTITUDE

A64-25552

SEAT ESCAPE SYSTEMS FOR JET AIRCRAFT USING SOLID FUEL ROCKET MOTOR IN COMBINATION WITH STANDARD A64-80838

L-SHAPE TRAJECTORY IN EMERGENCY ESCAPE SYSTEM IN ARMY HELICOPTERS

IMPROVEMENT OF RUCKET EJECTION SYSTEM LIFE-SAVING CAPABILITY THROUGH SYSTEM REFINEMENT AND AIRCREW TRAINING A64-80946

EJECTION TRAINING

EJECTION SEAT INJURIES IN ROYAL CANADIAN AIR FORCE AS RELATED TO EQUIPMENT AND TRAINING

A64-80175

IMPROVEMENT OF ROCKET EJECTION SYSTEM LIFE-SAVING CAPABILITY THROUGH SYSTEM REFINEMENT AND AIRCREW TRAINING A64-80946

ELASTICITY

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES CF HUMAN BODY DUE TO ELASTICITY OF TISSUES

464-80939

ELECTRIC CONDUCTIVITY CF RESISTANCE

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BICLOGICAL FLUIDS AND TISSUES

61 R-24

N64-25892

ELECTRIC CURRENT

CF ALTERNATING CURRENT /AC/
CF DIRECT CURRENT /DC/
WORKING CONDITION EVALUATION & HEALTH STATUS OF
PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY N64-11858

RÉLAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION N64-19C86

ELECTRIC DISCHARGE S LIGHTING

ELECTRIC ENERGY

ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT

ELECTRIC FIELD

ELECTRIC FIELD EFFECT ON ACTIVITY AND RADIATION STRESS IN MICE A64-80334

ELECTROCARDIDGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS JPRS-19030 N64-11123

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES AD-600263 N64-28812

ELECTRIC IMPEDANCE

ELECTRICAL IMPEDANCE PLETHYSMOGRAPH, EMPHASIZING ITS APPLICATIONS TO WEAPON SYSTEM EVALUATION AND TO SPACE FLIGHT

MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE A64-80541

ELECTRIC POTENTIAL

ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS SAM-TDR-63-95

N64-15570

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY N64-31542

ELECTRIC PROPERTY CF CONDUCTIVITY CF IMPEDANCE CF RESISTANCE

ELECTRIC PROPERTIES OF TISSUES

N64-17539

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE JPRS-26191 N64-28092

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR FIFCTRODES N64-31544

ELECTRIC RESISTANCE

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS RSIC-105 N64-13812

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN JPRS-25464 N64-28425

ELECTRIC STIMULUS

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY JPRS-21909

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264

ELECTRICITY

S STATIC ELECTRICITY

ELECTROCARDIOGRAM

STRONG MAGNETIC FIELDS EFFECT ON ELECTRO-CARDIOGRAMS OF SQUIRREL MONKEYS /SAIMIRI SCIUREUS/, NOTING HEART RATE A64-27598

ELECTROCARDIOGRAM IN SINUS TACHYCARDIA AND AURICULAR HYPERTROPHY A64-80024 ELECTROCHEMISTRY SUBJECT INDEX

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM OF HYPOTHERMIC DOGS A64-80086 PRODUCT ION NASA-CR-54051 FLECTROCARDIOGRAPHIC CHANGES DURING WORK AND ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES - BIDASSAY WITH CHLORELLA PROLONGED EFFORT A64-80228 N64-30569 AD-605724 PHYSIOLOGICAL TELEMETRY METHOD DURING EXERCISE - STUDY OF HEART AND RESPIRATORY RATE FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE A64-80474 N64-31315 ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY **ELECTRODE** A64-80731 BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH N64-11103 AS RELATED TO CARDIOVASCULAR DISEASE A64-80821 TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS VESTIBULAR AND CARDIOVASCULAR RESPONSES TO WEIGHTLESSNESS AND ADAPTATION TO INCREASED G FORCES AS RELATED TO PULSE, BLOOD PRESSURE, N64-11710 PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL RESPIRATION, AND ELECTROCARDIOGRAM MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MCNITORING SYSTEM 464-80845 N64-13872 RAPID ACCELERATION EFFECT ON SYMPATHICOTONIC AMRL-TDR-62-98/2/ CHARACTER OF ELECTROCARDIOGRAM IN PILOTS EJECTED FROM CATAPULTS ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS A64-80929 N64-25767 ELECTROCARDIOGRAMS OF MARATHON RUNNERS NASA-CR-56205 464-80951 ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249 N64-31546 ELECTROCARDIOGRAM OF SNAKES, COLUBER JUGULARIS AND PTIAS MUCOSUS, UNDER NORMAL CONDITIONS AND DURING MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN FTD-11-63-1119/16264 N64-33970 A64-81289 ELECTRCCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR AND SPACE FLIGHT ACCELERATIONS ON HUMAN **ELECTRODERMAL RESPONSE** TEMPERATURE EFFECT ON MEASURES OF ELECTRODERMAL ACTIVITY AND THEIR INTERRELATIONSHIP CIRCULATORY SYSTEM A64-80220 N64-10236 ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE MEDICINE OF HUMAN BODY ELECTRIC FIELDS A64-80677 N64-11123 JPRS-19030 ELECTRODERMAL SKIN RESPONSE TO FATIGUE IN AIRLINE ELECTROCARCIOGRAPHIC METHODS AND APPLICATION TO DOG STUDY DURING SPACE FLIGHTS N64-11707 DISPATCHER A64-80873 ADAPTATION OF GALVANIC SKIN RESPONSE UNDER TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS REPEATED PRESENTATION OF VISUAL STIMULUS N64-11710 A64-81201 ELECTROENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE RESPIRATION, AND GALVANIC SKIN RESPONSE DURING ELECTRICARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS SLEEP AFTER LONG WAKEFULNESS PERIOD N64-12142 JPRS-22508 A64-81204 WCLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK -ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH ELECTROCARDIDGRAPHIC ANOMALY N64-14778 REPT -- 15 PRURITIC DERMATCSIS N64-13812 SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC RSTC-105 **FUNCTIONS** EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA SAM-TDR-63-70 N64-32 N64-21482 JPRS-25015 INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLCOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTRICARDIOGRAM **ELECTROENCEPHALOGRAM** N64-27125 JPRS-25897 DE WEIGHTLESSNESS NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT JPRS-25599 N64-273 CORRELATION OF FLYING APTITUDE WITH ELECTRO-ENCEPHALOGRAM FOR AIRCREW SELECTION MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS SAM-TER-64-38 N64-31050 **ELECTROCHEMISTRY**

N64-32602 ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS A64-19137 ELECTROENCEPHALOGRAPHIC FINDINGS AND CALORIC IRRIGATION OF RIGHT EAR STUDIED IN DIAGNOSIS OF INFLIGHT LOSS OF CONSCIOUSNESS IN PRIVATE PILOT FLYING ALONE DATA REDUCTION OF BIOLOGICAL INFORMATION DURING PROLONGED FLIGHT MISSIONS, NOTING CASE OF ELECTROENCEPHALOGRAMS BIOELECTRIC ACTIVITY OF CEREBRAL CORTEX IN RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS OF ELECTROENCEPHALOGRAMS A64-2559 A64-25599

N64-15873

BICELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION

ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO

NA SA-CR-526C7

NASA-CR-55744

SYSTEMS

POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY

ELECTRECARCIDGRAM OF YOUNG AND ADULT RAPBIT AND CHICKEN CURING HYPOTHERMIA AND HYPERTHERMIA A64-80C48

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP CEPRIVATION AND EEG STAGE OF SLEEP A64-R0316

AMPLITUDE AND DURATION OF OCCIPITAL ELECTROENCEPHALOGRAPHIC RESPONSE TO DIFFERENT INTENSITIES OF FLASH STIMULATION

A64-80375

BRAIN EIOPOTENTIALS - ELECTROENCEPHALOGRAPHIC VARIATIONS IN RESPONSE TO RHYTHMIC PHOTIC STIMULATION A64-80469

VISUAL-OCULOMOTOR TRACKING IN MAN - CHARACTERISTIC ELECTROCORTICAL ACTIVITY A64-80494

CORTICAL EVOKEC POTENTIALS AND ATTENTIVENESS AS RELATED TO SIGNAL DETECTION IN VIGILANCE TASK
A64-80619

EVCKED CORTICAL POTENTIALS DURING PERFORMANCE OF TASK REQUIRING DECISION IN DISCRIMINATING FILTERED SOUNDS A64-80621

LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN

A64-80651

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTROMYCGRAPHIC, AND ELECTROMYCGRAPHIC, AND ELECTROMYSTAGMOGRAPHIC RECORDINGS

A64-80681

ELECTRCENCEPHALOGRAPHIC DEMONSTRATION OF CRIHOSTATIC SYMPTOMS A64-80748

CHRCNIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTROENCEPHALOGRAM IN MAN A64-80749

BICINSTRUMENTATION WITH BARANY CHAIR FOR RECORDING ELECTROENCEPHALOGRAM DURING ROTATION A64-80754

ANCXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY
AND ELECTROENCEPHALOGRAM AS AFFECTED BY
DIPHENYLHYDANTOIN. TRIMFTHADIONE, IDDOACETATE, AND
RESERPINE A64-80800

EPILEPTIC CHARACTER OF ELECTROENCEPHALOGRAM AFTER MENTAL FATIGUE - DISTURBANCE IN CORTICAL AND SUBCORTICAL REGION IN RAILROAD PERSONNEL

A64-80937

A64-81067

ELECTRCENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FCRCE CREWS AND RECRUITS
A64-80947

ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA
RHYTHMS/ CURING MENTAL ACTIVITY IN HUMANS
A64-B1043

PENTABORANE INTOXICATION DIAGNOSED WITH
ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT
TECHNIQUE
A64-B1046

SPENTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

HUMAN CONDITIONED REFLEX POTENTIAL EVOKED BY COMBINED STIMULI OF SOUND AND LIGHT MONITORED BY ELECTROENCEPHALOGRAPH A64-81082

EVCKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM SOLVING A64-81135

ELECTRORETINOGRAM AND ELECTROENCEPHALOGRAM OF VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA A64-81187

ELECTROENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE

RESPIRATION, AND GALVANIC SKIN RESPONSE DURING SLEEP AFTER LONG WAKEFULNESS PERIOD

A64-81204

ALPHA FREQUENCY OF ELECTROENCEPHALOGRAM AND STABILIZED RETINAL IMAGE A64-81241

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCORTICAL AREAS OF BRAIN IN RABBIT A64-81253

LIGHT STIMULATION EFFECT ON VISUAL CORTEX AND BRAIN POTENTIALS IN RABBIT A64-81297

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

N64-22427

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION N64-23867

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP NASA-CR-56908 N64-27395

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY JPRS-26839

ELECTROENCEPHALOGRAPHY
SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN
ELECTROENCEPHALOGRAPHY
A64-25557

ELECTROENCEPHALOGRAPHIC RESPONSE TO TACTILE AND AUDITORY STIMULATION IN MAN A64-80236

ELECTROENCEPHALOGRAPHIC CHANGES IN VARIOUS AREAS
OF CEREBRAL CORTEX DURING PHYSICAL WORK BY MAN
A64-80237

ELECTROENCEPHALOGRAPHY IN AVIATION MEDICINE
A64-80274

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION

A64-81153

ELECTROENCEPHALCGRAPHIC SIGNS OF FATIGUE CAUSED BY SLEEP DEPRIVATION A64-81154

PRINCIPLES AND METHODS OF USING ELECTROENCEPHALOGRAPHY IN AEROSPACE MEDICINE A64-81336

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANDXIA UPON CENTRAL NERVOUS SYSTEM
N64-14585

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21
N64-14952

ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS

JPRS-23590 N64-16668

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY AFCRL-63-364 N64-18581

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION REPT.-12-63 N64-20380

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION NADC-ML-6402 N64-20450

RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL ANALYZER IN BINCCULAR VISION AND VISION DISTURBANCE - ELECTROENCEPHALOGRAPHY

N64-25136

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH
FTD-TT-63-1190/18284

N64-26212

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR AFOSR-64-1195 N64-30465

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPCLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH **ELECTRODES** NASA-CR-59001

N64-33041

ELECTROLYSIS

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON CLOXIDE N64-27432 AMRL-TDR-64-35

ELECTROLYTE CF ANION

CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

464-80722

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC N64-15040 SALT SCLUTIONS IN PLASMA

ELECTROLYTE METABOLISM CALCIUM AND PHOSPHORUS METABOLISM IN MAN DURING ACCLIMATIZATION TO CARBON DIOXIDE

VIERATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-80155

ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN SUBARCTIC SURVIVAL SITUATIONS A64-A64-80167

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

BODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE A64-80552

HUMAN SERUM ELECTROLYTE AND IRON CONCENTRATION CHANGES DURING PHYSICAL EXERCISE

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

A64-80823

PHYSIOLOGICAL RESPONSES TO HIGH ENVIRONMENTAL
TEMPERATURE AND HYPERTHERMIA A64-A64-80878 IRCN AS GROWTH FACTOR OF ALGAE. CHLORELLA

PYRENCIDOSA, AND CHICK 82 A64-81081 ION MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER

HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

SODIUM-POTASSIUM ION SHIFT IN HUMAN BLOOD PLASMA A64-81271 AND ERYTHROCYTE

ELECTROMAGNETIC FIELD
BICLOGICAL EFFECT OF HIGH FREQUENCY ELECTRO-A64-80014 MAGNETIC FIELD

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC N64-32782 FIELD

ELECTROMAGNETIC INSTRUMENT
SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC
DEVICE OF GIVEN DEPENDABILITY
FTD-TT-63-37/162
N64-2329 N64-23295

ELECTROMAGNETIC RADIATION
CF ALPHA RADIATION
CF BETA RADIATION

MODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR SPACE FOR FLIGHT TRAINING SIMULATION

A64-81220

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-

FLECTROMYOGRAM

ELECTROMYOGRAPHIC ANALYSIS OF SIMPLE VOLUNTARY
MOVEMENT AND SPREAD OF EXCITATION TO CONTRALATERAL
INACTIVE EXTREMITY
A64-80047

ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY MUSCLES DURING POSITIVE PRESSURE BREATHING A64-80050

PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL A64-80260

ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION A64-80279

ELECTROMYOGRAPHIC STUDY OF HIP AND THIGH MUSCLE FUNCTION IN ROMBERG POSITION AND STANDING AT EASE A64-80383

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND **ELECTRONYSTAGMOGRAPHIC RECORDINGS** A64-80681

ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL A64-80966 MUSCLE IN HUMAN

ACTION POTENTIALS RECORDED BY SURFACE ELECTRODES OF QUADRICEPS, HAMSTRINGS, TIBIALIS ANTERIOR, AND TRICEPS SURAS MUSCLES DURING POSTURE CHANGE A64-81020

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

ELECTROMYOGRAPHIC CHARACTERISTICS OF MUSCLE ACTIVITY WITH VARYING LOADS AND RATES OF MOVEMENT IN HUMANS A64-81315

ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES JPRS-22782 N64-13376

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES FTC-TT-63-1052/162

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS

ELECTRON

SA PI-ELECTRON PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATCMIC OUTER ENERGY LEVELS N64-17977 JPRS-24099

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS N64-19465

ELECTRON BUNCHING VELCCITY

ELECTRON MICROSCOPY

ELECTREN MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE

N64-12497

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN MEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837

N64-18084

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY NASA-CR-56227 N64-24110

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

IRRADIATION-PROCUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEDXYRIBONUCLEIC ACID UCRL-11387. SUPPL N64-30782

RING STRUCTURE OF SINGLE STRAND DEDXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY

N64-30785

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY N64-30791

ELECTRON MICROSCOPE FACILITIES AND RESEARCH RROGRAM IN MOLECULAR BIOLOGY NASA-CR-59151 N64-33277

ELECTRON MICROSCOPY AND ELECTRON OPTICAL

TECHNIQUES IN EXOBIOLOGY NASA-CR-59251

ELECTRON PARAMAGNETIC RESONANCE ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RACIATION JPRS-23983 N64-18138

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT

N64-18519

N64-33286

ELECTRON RADIATION ABDOMINAL VISCERA, BODY WEIGHT, AND BLOCD-FORMING CRGANS OF MICE AS AFFECTED BY ELECTRON RADIATION

A64-80824

ELECTRON SCATTERING

AND POSSIBLE MEANS OF PROTECTION

HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS LAMS-2959 N64-12113

ELECTRON SPIN S ELECTRON SPIN RESONANCE

ELECTRON SPIN RESONANCE

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS AD-602394 N64-32295

ELECTRON TRANSFER PHCTOSYNTHETIC ELECTRON TRANSPORT

N64-13199

ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL FUEL CELL REACTIONS N64-19311 ELECTRONARCOSIS

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS RSIC-105

METHODS USED TO ADMINISTER ELECTRICALLY INDUCED SLEEP JPRS-23524

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS FTD-TT-63-931/162 N64-24064

ELECTRONIC EQUIPMENT

COMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY OF CYBERNETIC MECHANISM JPRS-18873

PROCEDURE FOR PREDICTION OF TIME AND MANPOWER REQUIRED FOR MAINTENANCE OF ELECTRONIC EQUIPMENT REPT .- 64-34 N64-22095

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING DIAGNOSIS

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION **PROCEDURES** SAM-TDR-63-73

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY JPRS-24682

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS N64-30239

ELECTRONIC EQUIPMENT FOR MEDICAL RESEARCH AND **TREATMENT** JPRS-25587

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF N64-30392

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES

N64-30393

ELECTRONIC RECORDING INSTRUMENT ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS MONITOR A64-81110

ELECTRONICS

SA MEDICAL ELECTRONICS SA MICROELECTRONICS SA MOLECULAR ELECTRONICS MEANS & METHODS OF USING ELECTRONICS IN SCIENTIFIC & PRACTICAL MEDICINE JPRS-17497 N64-10682

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM REPT.-63-27 N64-21680

ELECTRONICS AND INDUSTRIAL SAFETY FTD-TT-63-1200/164

N64-22160

ELECTRONYSTAGMOGRAPHY

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONYOGRAPHIC, AND ELECTRONYSTAGMOGRAPHIC RECORDINGS

A64-80681

VESTIBULAR CLINICAL EXAMINATION USING ELECTRONYSTAGMOGRAPHY

A64-80948

ELECTRONYSTAGMOGRAPH RECORDING OF RESPONSE TO VARIED LIGHT AND SOUND, MENTAL PROBLEMS, ACTIVITY, AND CHEMICAL FACTORS RELATED TO TRAVEL SICKNESS

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF VERTIGO IN RABBIT A64-81123

ELECTROPHORESIS

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD

SUBJECT INDEX

GELLS UCRL-10898

N64-22855

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PRCTEIN FRACTIONS N64-22856

ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY NASA-CR-58340 N64-28935

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNCLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048

FLECTROPHYSIOLOGY BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS MIT-TR-416

ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY CEPRIVATION N64-26053 TR-9

PHYSICLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BICINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY JPRS-26444

VARIABILITY OF PRIMARY EVCKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE CF NARCCSIS - ELECTROPHYSIOLOGY

CRIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY N64-31542

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM

N64-31546

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS NASA-TT-F-9147 N64-334C8

ELECTROPLETHYSMOGRAPHY

RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND CREANS OF HUMAN BODY N64-20194 NASA-TT-F-203

ELECTRORETINGGRAM PHYSICLOGICAL EXPLANATION OF WATERFALL PHENOMENCN AND FIGURAL AFTEREFFECTS A64-80194

ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRACCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF L'GHT STIMULUS INTENSITY

A64-80374

ELECTRORETINGGRAPHY - USEFULNESS IN SELECTION OF A64-808C2 FLYING PERSONNEL

ELECTRORETINGGRAM AND ELECTROENCEPHALOGRAM OF VISUAL CERTEX IN MAMMAL DURING HYPOTHERMIA A64-81187

HUMAN ELECTRORETINGGRAPHY AND VISUAL PERFORMANCE N64-32379

ELECTROSTATIC FIELD ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS ON HUMAN PERFORMANCE A64-13999

ELECTRISTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIOLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS

A64-25545

HEARING PHENOMENA WITH EXPOSURE TO ALTERNATING ELECTRESTATIC FIELD A64-80919

ELECTROSTATICS S STATIC ELECTRICITY

ELEMENT

S DECISION ELEMENT

S TRACE ELEMENT

ELEMENT ABUNDANCE X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM UCRL-10873

ELEMENTARY PARTICLE

- CHARGED PARTICLE
- ELECTRON
- FAST NEUTRON
- NEUTRON
- POSITRON PROTON

ELEVATOR ILLUSION

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION A64-80174

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION N64-25846

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION NASA-CR-59180 N64-33159

STRONTIUM 90 TOXICITY IN RAT EMBRYO

N64-18348

HEARTREAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH N64-19015 NASA-SP-5007

CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES DURING EMBRYONATION

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, ABSTRACTS ON INVESTMENT AND ARTICLES, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-33513

EMERGENCY BREATHING TECHNIQUE S PRESSURE BREATHING

EMERGENCY LIFE SUSTAINING SYSTEM EMERGENCY LIFE SUSTAINING SYSTEM FOR SPACECRAFT A64-13997

LIFE SUPPORT MANAGEMENT WITHIN SPACECRAFT DURING EMERGENCY THAT MAY REQUIRE RESCUE

A64-27823

EMISSION S RADIATION

EMOTIONA', FACTOR HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS A64-22062

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO **ACCELERATION**

STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND A64-80361 PSYCHOLOGICAL RESPONSES

EMCTIONAL STRESSES AND FUNCTIONAL PROCESSES IN ORGANISM A64-80640

EMOTIONAL STRESS EFFECT ON BLOOD PRESSURE AND PULSE RATE IN MAN A64-A64-80641

CATECHOLAMINE EXCRETION PATTERNS DURING VARIOUS PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL CONDITIONS

EMCTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS WITH CENTRAL NERVOUS ACTION A64-80 A64-80653

PCLYGRAPHIC INVESTIGATION OF EMOTIONAL INFLUENCE ON PHYSIOLOGICAL INDICES AND AFTER CENTRALLY EFFECTIVE DRUG IN MAN A64-806 A64-80654

CATECHOLAMINE EXCRETION AND PERFORMANCE DURING

STRESS

A64-80743

A64-80514

PSYCHOLOGICALLY PRODUCED HYPERVENTILATION IN AIRCRAFT ACCIDENTS AND METHODS OF PREVENTION A64-80818

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL STRESS IN RATS A64-81087

SET AND SHOCK-STRESS EFFECT UPON ILLUSION PERCEPTION IN HUMAN A64-81183

MANIFEST ANXIETY RELATED TO PHENOMENON OF NARROWING VISUAL FIELD WITH INCREASE IN DISTANCE A64-81196

ENCODING S CODING

ENDOCRINE GLAND

VIBRATIONAL STRESS ON PLASMA AND URINARY CORTICESTEROID LEVELS

A64-22064 COLD AND RESTRICTION STRESS EFFECT ON ACID

MUCOPCLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPERCYTA

SAM-TER-64-6

ENDOCRINE SYSTEM

LIGHT AS REGULATOR OF NEUROENDOCRINE FUNCTION

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENOMECULLARY SYSTEM AND ADRENAL CORTEX IN GOAT A64-81226

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION AMRL-TER-64-54 N64-31943

ZOCLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION CF MANMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION NASA-CR-59305 N64-33514

ENDOCRINCLOGY

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR. PHYSICLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVCLUTION, AND CELL BIOLOGY
NASA-CR-593C7
N64-335

ENERGY

- ATOMIC ENERGY
- ELECTRIC ENERGY SOLAR ENERGY

ENERGY CONVERSION CF PHOTOELECTRIC CELL

CF TRANSDUCER

MECHANICAL ENERGY CONVERSION AND CONTROL EQUIPMENT SHEWING HUMAN LEARNING AS CONTRIBUTION TO RELIABILITY

ENERGY EXCHANGE

MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS IN PROTEIN MACROMOLECULE JPRS-23991 N64-18318

ENERGY LEVEL

CF EXCITATION CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATCHIC OUTER ENERGY LEVELS JPRS-24099 N64-17977

ENERGY REQUIREMENT

CF METABOLISM ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN SUBARCTIC SURVIVAL SITUATIONS A64-A64-80167

MAXIMUM CXYGEN CONSUMPTION OF SUBJECTS PERFORMING THE STEP TEST

NUTRITIONAL REQUIREMENTS IN SPACE TRAVEL

A64-80395

ENERGY SOURCE

EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMOPHILIC PLANT

JPRS-21501

N64-10067

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS. ENZYME INHIBITORS, AND RADIOBIOLOGY

JPRS-19995 N64-12570

ENERGY SPECTRUM

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9 NASA-CR-58948 N64-31553

ENERGY TRANSFER

ORIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL NONLIVING MATTER IN RELATION TO INFORMATION AND ENERGY TRANSFER

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING ORGANISMS N64-10797

ENGINE

JET ENGINE

NUCLEAR ENGINE FOR ROCKET VEHICLE /NERVA/

ENGINE TESTING

ALTITUDE TEST

ENVIRONMENTAL TESTING

FLIGHT TEST

ENGINEERING /GEN/ SA HUMAN ENGINEERING MANNED SPACE STATION FOR BIOLOGICAL AND

ENGINEERING RESEARCH A64-80011

THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS JPRS-19999 N64-10592

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE,

ECONOMICS, AND ENGINEERING JPRS-22931 N64-14142

ENGINEERING PSYCHOLOGY

JPRS-23448

N64-16667

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

N64-23740

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BICINSTRUMENTATION NASA-CR-76 N64-26609

ENVIRONMENT

SA EXTRATERRESTRIAL ENVIRONMENT

SA LUNAR ENVIRONMENT

SA MARS ENVIRONMENT SA ROTATING ENVIRONMENT

SA SPACE ENVIRONMENT

SA SPACECRAFT ENVIRONMENT

ORGAN SYSTEM RESPONSE AND ADAPTATION TO ENVIRONMENTAL CHANGES - HANDBOOK

A64-80414

N64-13692

CELL REACTIONS UNDER EXTREME ENVIRONMENTAL CONDITIONS JPRS-22613

ENVIRONMENT MODEL

MODEL OF ELECTRONAGNETIC ENVIRONMENT IN CISLUNAR SPACE FOR FLIGHT TRAINING SIMULATION

ENVIRONMENT SIMULATION

CF SPACE SIMULATION

EXPERIMENTAL MARTIAN ENVIRONMENT CONSTRUCTED FOR STUDYING POSSIBLE LIFE ON THE PLANET

ENUMERATION OF INTERACTIONS THAT HIGHT BE EXPECTED FROM CONSTITUENTS IN A SEALED ENVIRONMENTAL SYSTEM AIAA PAPER 63-258 A64-14341

COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN A64-14461

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN CONDITIONS AND POSSIBLE EFFECTS ON EXTRA-

TERRESTRIAL LIFE

A64-24948

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON A64-24980 MICROGRGANISMS

MODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR SPACE FOR FLIGHT TRAINING SIMULATION

A64-81220

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT N64-11131 JPRS-19953

SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS ENVIRCHMENT N64-11293 NASA-CR-52841

BEHAVICRAL TESTING CURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK NASA-TN-C-1974

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT. AND TRANSPARENCY OF HUMAN ECCY TO RADIO WAVES N64-16642 SAM-TER-63-80

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL **ENVIRONMENT** NASA-CR-531C6

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT NASA-CR-50516

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT N64-22777 NASA-TM-X-50873

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON N64-22790 NASA-CR-56529

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRONMENT N64-31440 JPRS-26762

ENVIRONMENTAL CHAMBER

CARBON DIOXIDE INHALATION AND SWEATING DURING EXPOSURE TO DIFFERENT TEMPERATURES IN A64-80171 ENVIRONMENTAL CHAMBER

CLIMATIC CHAMBERS FOR ADAPTATION RESEARCH

A64-80422

BRAIN ELCOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPCXIA IN ENVIRONMENTAL CHAMBER

DXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLOOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN A64-81270 RAT

LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED ENVIRONMENT N64-11825 NASA-CR-52913

BICMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER N64-12226 AFDC-TCR-63-256

ENVIRONMENTAL CONTROL

HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND RRCTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS A64-13522

ENVIRONMENTAL CONTROL, REPLENISHMENT AND STABILITY OF SPACE LIFE SUPPORT SYSTEM WITH PRIMARY CONSIDERATION GIVEN TO OXYGEN-CARBON DIOXIDE AND THE WATER CYCLE A64-14332 AIAA PAPER 63-65

STEADY STATE BIGENERGETICS CONSIDERED IN ATMOSPHERIC AND ENVIRONMENTAL CONTROL OF MANNED SPACE VEHICLES

GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH

ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A SPACE-STATION LABORATORY AIAA PAPER 63-140

ALKALT AND ALKALINE EARTH SUPEROXIDES USED IN NONREGENERATIVE AIR REVITALIZATION SYSTEMS FOR SPACE MISSIONS

SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS EXPOSURE TO CARBON DIOXIDE AND INCREASED DXYGEN A64-25319

ENVIRONMENTAL CONTROL FOR SPACECRAFT INCLUDING CRYCGENIC GAS STORAGE, TEMPERATURE CONTROL, ATMOSPHERE CONTROL AND WATER MANAGEMENT A64-28087

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON 464-80446 METABOLIC APPROACH

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS N64-11258

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE N64-13716 LIFE SUPPORT SYSTEM MODULES

RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS N64-14044 ARL-TDR-63-26

SPACE VEHICLE THERMAL & ATMOSPHERIC CONTROL N64-14470 AD-428573

PRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL FTD-TT-62-1424/18384

ENVIRONMENTAL SCIENCE GRAVITATIONAL, MAGNETIC, RADIATION, ATMOSPHERIC, HYDROSPHERIC, LITHOSPHERIC, AND BIOTIC ENVIRONMENTAL DATA NEEDED FOR SUCCESSFUL MANNED A64-10101 FLIGHT TO MARS

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE AND TOLERANCE

ENVIRONMENTAL TEMPERATURE SA LOW TEMPERATURE ENVIRONMENT ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND AMOEBA EXPOSED TO ATMOSPHERIC OXYGEN A64-20699

OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN A64-80107 RELATION TO COLD TOLERANCE

DXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL A64-80111 **FNV IRONMENTS**

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED BY MUSCULAR ACTIVITY IN NORMAL AND WARM **ENVIRONMENTS** A64-80112

INSENSIBLE WEIGHT LOSS OF CLOTHED RESTING SUBJECTS IN COMFORT ZONE TEMPERATURES A64-80118

CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN A64-80142 ANTI-G SUIT

HUMAN SKIN TEMPERATURE AND NONEVAPORATIVE HEAT A64-80163 EXCHANGE WITH THE ENVIRONMENT

CARBON DIOXIDE INHALATION AND SWEATING DURING EXPOSURE TO DIFFERENT TEMPERATURES IN ENVIRONMENTAL CHAMBER A64-A64-80171

PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS RELATED TO SKIN AND RECTAL TEMPERATURES A64-80179

TEMPERATURE EFFECT ON MEASURES OF ELECTRODERMAL ACTIVITY AND THEIR INTERRELATIONSHIP

A64-80220

SEASONAL VARIATION OF BLOOD AND PLASMA VOLUMES IN

HEALTHY MEN IN FINLAND

PELOMYXA CAROLINENSIS

A64-80252

A64-80505

SEALEC ENVIRONMENTS IN RELATION TO HEALTH AND A64-80265

SKIN RCLE DURING ADAPTATION TO ENVIRONMENTAL 464-80417

THERMCREGULATORY SYSTEM OF HOMECTHERMS AND POIKILCTHERMS IN COLD AND HOT ENVIRONMENTS A64-80419

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMDEBA,

THIRST, HUNGER, ENVIRONMENTAL TEMPERATURE, AND PHYSICAL ACTIVITY AS RELATED TO BODY WATER 464-80547

WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM ACTIVITY IN RAT IN VARIOUS ACTIVITY MEASURING DEVICES AT DIFFERENT ENVIRONMENTAL TEMPERATURES 464-80556

SEASONAL VARIATION OF ADRENAL CORTEX, LEUCOCYTES, AND REACTION TO ENVIRONMENTAL TEMPERATURE 464-80899

TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLCCD OF HUMAN ADULT AND NEWBORN

A64+81012

ENVIRONMENTAL TESTING

CF MATERIAL TESTING ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT LIFE SUPPORT SYSTEMS A64-23200

TEST SCOPE FOR OPERATIONAL INTEGRITY OF SPACE SUIT A64-23246

MANNED SPACE STATION FOR BIOLOGICAL AND ENGINEERING RESEARCH A64-80011

EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF MAK AMRL-TER-63-85 N64-12215

SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN SHELTER - ATMOSPHERE AND TEMPERATURE STUDIES

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING GREWIH NASA-CR-52635 N64-15895

OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES SAM-TER-63-91 N64-16643

GASEOUS ENVIRONMENTAL TESTING FOR MANNED N64-22073 SPACECRAFT

ENZYME

SA CAREONIC ANHYDRASE SA HEXCKINASE SA DXICASE

INTRAMCLECULAR REDRGANIZATION IN ALCOHOL DEHYDROGENASE AND PROTEINASE OF B. SUBTILIS DUE TO SUBZERC TEMPERATURES 464-24969

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE A64-80593

EFFECT OF IMPACT VELOCITY ON LDH ISDENZYMES AND RELATED TISSUE DAMAGE IN CHIMPANZEE A64-80847

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTANIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN. AND PHYSICAL STRESS A64-81156

THICL-ACTIVATED AMINOPEPTIDASE OF PITUITARY EXTRACT NASA-RP-55 N64-10293

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS

BIDELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY NASA-CR-52607 N64-11103

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLEUSIDE SUBSTANCES N64-12510

BIOCHENICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPCXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754

INHIBITING ACTION OF DEOXYRIBONUCLEASE ON ADENOVIRUSES N64-12883 JPRS-22050

INHIBITING CAPACITY OF DEDXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N64-12884

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-13502

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND. AND INTESTINE ENZYME ACTIVITIES N64-13504

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE AAL-TDR-63-13

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA N64-14606

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG AD-429070

ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA N64-15038

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO DXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039

ENZYME ACTIVATION DETERMINATION OF OXYGEN DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME FORMATION

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION N64-15211 AND GRAVITY

ELECTRICHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, CXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS

NASA-CR-55744

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES NASA-CR-53290

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES JPRS-24838

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES NASA-RP-236 N64-26710

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION JPRS-25986 N64-27668

ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS N64-31347

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32C48

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICRODRGANISMS JPRS-27146 N64-33345

ENZYME ACTIVITY

PUBL -- 281

INTRAMCLECULAR REORGANIZATION IN ALCOHOL DEHYDROGENASE AND PROTEINASE OF B. SUBTILIS DUE TO SUBZERO TEMPERATURES

CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER STRUCTURE AND ENZYME ACTIVITY A64-80074

BENZENE INTOXICATION AS RELATED TO ENZYME ACTIVITY IN RAT AND RABBIT A64-80720

CXYGENATING ENZYMES IN BRAIN CORTEX AND MEDULA IN RATS ADAPTED TO HYPOXIA A64-81293

BLCOD, TISSUE, ENZYME, AND ISCENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS JPRS-25630 N64-27319

EPILEPSY

EPILEPTIC CHARACTER OF ELECTROENCEPHALOGRAM AFTER MENTAL FATIGUE - DISTURBANCE IN CORTICAL AND SUBCORTICAL REGION IN RAILROAD PERSONNEL

EPINEPHRINE

INEPHRIME

URINARY CUTPUT OF ADRENALINE AND NORADRENALINE,
PULSE RATE AND BLOOD PRESSURE OF SUBJECTS AFTER
WATER IMMERSION STUDIED, TO DETERMINE THE
SYMPATHOADRENAL RESPONSE AND ORTHOSTATIC TOLERANCE A64-10252

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH

MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

BLCOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA

ADRENALIN EFFECT ON RELATIONSHIP BETWEEN DXYGEN NEED AND SUPPLY IN HEART IN DOG

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE JPRS-22522 N64-12068

EQUILIBRIUM

SA BODY SWAY TEST CF STABILIZATION EQUILIBRIUM FUNCTION ANALYSIS THROUGH NEWLY DEVELOPED STRAIN-GAGE-TYPE INSTRUMENTS

A64-80253

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24 N64-24341

EQUIPMENT

- AUDIO EQUIPMENT
- CHECKOUT EQUIPMENT TRAINING EQUIPMENT

FRROR

SA PILOT FRROR ERROR ANALYSIS OF PARALLAX IN INDIVIDUAL SCALE A64-13081

ERROR ANALYSIS OF PARALLAX IN INDIVIDUAL SCALE A64-17598

MOTION PERCEPTION - STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, TIME, AND DISTANCE A64-80402

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112 N64-14168

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE AMRL-TDR-63-137 N64-17510

ERROR CORRECTING DEVICE
CONTROL OF DISCRETE STOCHASTIC PROCESSES AS
FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS AMRL-TDR-63-111

ERYTHROCYTE

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPOXIA IN ENVIRONMENTAL CHAMBER

A64-80759

CHANGES IN RED BLCOD CELLS, PLASMA VOLUME, BLCOD PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS

ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS A64-80841

STRENUOUS EXERCISE AND WORKING CONDITIONS AND EFFECT ON BLOOD PLASMA AND RED CELL VOLUME A64-81018

HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF ERYTHROCYTES IN YOUNG AND MATURE DOG

A64-81250

SODIUM-POTASSIUM ION SHIFT IN HUMAN BLOOD PLASMA AND ERYTHROCYTE A64-81271

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION JPRS-18938

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD CELLS UCRL-10898 N64-22855 WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA NASA-TT-F-9125 N64-33401

FSCAPE

LAPE
HISTORY OF ESCAPE SYSTEM DEVELOPMENT FOR AIR, SEA,
AND SPACE USE
A64-80198

AERCSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS AGARDOGRAPH-52 N64-13493

RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES NASA-CR-53344 N64-17790

B-58 ESCAPE CAPSULE FLIGHT TEST OF EIGHT EJECTIONS AT SUBSONIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION A64-13510

TOLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET WEARING STANDARD DXYGEN MASK A64-80268

DECOMPRESSION TESTS FOR B-58 ESCAPE CAPSULE SYSTEM

ESCAPE ROCKET

ROCKET ASSISTED EJECTION ADVANTAGE OVER BALLISTIC EJECTION, CONSIDERING SYSTEM MALFUNCTION, PILOT INJURIES, ACCIDENT CAUSES AND ALTITUDE

A64-25552

ESCHERICHIA

BICLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GRENTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B A64-22813

GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN E. COLT P. A64-80362

GREWITH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY

464-80684

RACIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI

N64-19544

GENETIC RECCMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI NASA-RP-296 N64-28231

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649

ETHANE

S TETRAETHYL

ETHANOL

COMPARATIVE EFFECT OF CHLORMEZANONE, SINGLY AND IN COMBINATION WITH ASPIRIN, ETHANOL, AND PLACEBO ON HUMAN PERFORMANCE UNDER DELAYED AUDITORY FEEDBACK A64-81240

ETHYL ALCCHOL

BLCOD-ALCOHOL CONCENTRATION IN SIMULATED DAY AND NIGHT DRIVING AND ITS EFFECT ON VISION

A64-80009

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING A64-80352

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819 EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES AD-433129 N64-17924

ETHYLENE COMPOUND

TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-80893

ETHYLENE OXIDE

TREME UAIDE
SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY
SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL
STERILIZATION BY ETHLENE OXIDE A64-80-A64-80463

HUMAN RESPONSE TO LONG-TERM, LOW-LEVEL EXPOSURE TO ETHYLENE OXIDE A64-80511

ETTOLOGY

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES

ETICLOGY OF DYSBARISM - DECOMPRESSION SICKNESS N64-32400

EUCLIDEAN SPACE

HYPERBOLIC SPACE STRUCTURE COMPARED WITH EUCLIDEAN STRUCTURE OF VISUAL SPACE 464-80491

EUROPE

FRANCE

S U.S.S.R.

EUSTACHTAN TURF

EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM A64-80306

EVACUATION

TRANSPORTATION TECHNIQUES OF AEROMEDICAL EVACUATION IN ALGERIA 464-80035

EVAPORATION

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS CAR 1-63-25 N64-29846

EVOLUTION

ORIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL NONLIVING MATTER IN RELATION TO INFORMATION AND ENERGY TRANSFER A64-80368

SPECULATIONS ON LIFE IN UNIVERSE, EVOLUTION OF MAN, AND BEGINNINGS OF UNIVERSE

A64-80595

EVIDENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON EARTH AND IN SPACE A64-80942

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS -EVOLUTION OF LIFE N64-19584

CHEMICAL EVOLUTION AND ORIGIN OF LIFE

NASA-RP-233

N64-25970

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS AD-600319

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR **EVOLUTION** N64-27797

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDCCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-33513

ZOCLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION NASA-CR-59305

EXCHANGE

S ENERGY EXCHANGE S GAS EXCHANGE

S HEAT EXCHANGER

EXCITATION CF IONIZATION BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY JPRS-21894 N64-10517

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS

N64-23749

PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040

EXCRETION

CF URINE
STEROIC AND CATECHOLAMINE EXCRETION OF PILOTS
IN SPACE CABIN SIMULATOR
A64-12938

ADRENCCCRTICAL ACTIVITY AT HIGH ALTITUDE UNDER STRESS CONCITIONS A64-12990

TRYPTCPHAN-RICH PREALBUMIN EXCRETION AFTER STRENUCUS EXERCISE A64-80006

CALCIUM AND PHOSPHORUS METABOLISM IN MAN DURING ACCLIMATIZATION TO CARBON DIOXIDE

A64-80110

HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION, VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY

A64-80115

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-80155

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE
A64-80184

URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-80200

CATECHCLAMINE EXCRETION PATTERNS DURING VARIOUS PHYSICLOGICAL AND PATHOPHYSIOLOGICAL CONDITIONS A64-80652

PROLONGED STARVATION EFFECT ON BLOOD PLASMA CONCENTRATION AND EXCRETION OF ADRENAL HORMONES A64-80767

CHLORPROMAZINE EFFECT ON CATECHOLAMINE EXCRETION
OF NORMAL AND COLD ACCLIMATED RAT

A64-80983

URINARY CAST FORMATION OF TH-MUCOPROTEIN AND CREATININE EXCRETION DURING EXERCISE

A64-81318

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IGDINE-131 FROM RATS N64-12436

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM N64-12437

MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROWINE, AND RUBIDIUM N64-12438

EXAMINATION OF GROUNC SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES TN-62-12 N64-13988

ISCLATION OF FECAL BACTERIA AND ESTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS
NASA-CR-55561 N64-15550

TIME AND COSE DEPENCENCY OF NITRUGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION NIJS-R-422 N64-21C48

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS NIJS-R-421 N64-2105

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT REPT.-280 N64-23896

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION N64-33452

EXERCISE
CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING
EXERCISE
A64-80352

EXOBIOLOGY
THEORETICAL PREDICTIONS THAT 3 OUT OF 42 KNOWN
STELLAR SYSTEMS MAY SUPPORT LIFE IF PLANETS HAVE
EVOLVED FOR THESE STARS
A64-10217

LIFE DETECTION ON MARS, USING GAS CHROMATOGRAPHY
A64-13439

PHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERISTICS OF LIFE IN SPACE WITH OBSERVATIONS ON INTERPLANETARY TRANSMISSION OF BACTERIAL SPORES

464-16475

BIOLOGICAL IMPLICATIONS AND BACTERIA RESPONSE TO SIMULATED MARTIAN CONDITIONS, DISCUSSING PRESENCE OF WATER ON MARS A64-18258

LIMONITE ENVIRONMENT MAY PROVIDE ECOLOGICAL BASIS FOR RESPIRATORY AND PHOTOSYNTHETIC MARTIAN ORGANISMS A64-18837

EXOPHORIA

ACCOMMODATION AND CONVERGENCE CONSIDERED WITHIN
CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS
FUNCTION OF EXOPHORIA AND HYPEROPIA.

A64-80026

EXPECTANCY HYPOTHESIS

SELECTIVE RESPONSE TIME INFLUENCED BY
INTER-STIMULUS INTERVAL AND PROBABILITY OF
OCCURRENCE OF STIMULUS

A64-80967

VISUAL REACTION TIME RELATED TO EXPECTANCY OF STIMULUS A64-81151

EXPERIMENT DESIGN
BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH
MRC-405
N64-17921

SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS
N64-21867

EXPIRED AIR

CF ALVEOLAR AIR

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE
PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL
DEAD SPACE WITH CHANGES IN BODY POSITION

A64-80016

WATER LOSS THROUGH RESPIRATION A64-80028

GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL EXPIRATORY FLOW VOLUME RELATIONSHIP

A64-80068

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR A44-90281

MOVEMENTS AND DISPERSION OF RESPIRED AIR OF IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT A64-80826

EXPLORATION S SPACE EXPLORATION

EXPLOSION
S NUCLEAR EXPLOSION

EXPLOSIVE S PROPELLANT

SUBJECT INDEX

EXPLOSIVE DECOMPRESSION

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE

DECOMPRESSION IN SUBJECTS WEARING A FRENCH HIGH—

ALTITUDE SUIT

A64-80282

TOLERANCE OF MICE X-IRRADIATED IN HYPEROXIC ENVIRONMENT TO EXPLOSIVE DECOMPRESSION

A64-80441

PRCTECTIVE EFFECT OF XYLOCAINE ON TOLERANCE OF VIERATED RATS TO EXPLOSIVE DECOMPRESSION AD-432880 N64-2037

EXPLOSIVE GAS

ACCUMULATION OF STATIC ELECTRICITY ON ARCTIC
CLOTHING WITH DECREASE IN TEMPERATURE AND HAZARD
OF EXPLOSIVE GAS-AIR MIXTURES IGNITING BY
ELECTROSTATIC DISCHARGE

A64-13523

EXPOSURE

SA RADIATION EXPOSURE
DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL
ASPECTS OF PHOTO INTERPRETATION — EXPOSURE
TIME & WORK-REST CYCLES N64-10534

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE
COLD EXPOSURE AT NIGHT
AAL-TDR-62-44
N64-13645

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED

OXYGEN TENION

SAM-TER-63-64

N64-16640

EXTRACTION S HYDROLYSIS

EXTRASENSORY PERCEPTION
EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH
ANIMALS
ETD-11-62-1876/1
N64-21928

EXTRATERRESTRIAL ENVIRONMENT CF LUNAR ENVIRONMENT CF PLANETARY ENVIRONMENT CF SPACE ENVIRONMENT BICLOGICAL RHYTHMS DEFINED

CF SPACE ENVIRONMENT
BICLOGICAL RHYTHMS DEFINED TO DETERMINE ALTERATION
DUE TO EXTRATERRESTRIAL SPACE ENVIRONMENT
A64-24399

AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL
NETEORITE PARENT BODY AND SUSTEMANCE OF LIFE
A64-80451

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT NASA-CR-53106 N64-16745

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302
N64-17766

ANAERCEIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-50934
N64-22758

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-56527
N64-22788

EXTRATERRESTRIAL LIFE

CF LIFE DETECTOR

ORIGINS OF TERRESTRIAL LIFE IN TERMS OF CHEMICAL
EVCLUTION OF ATMOSPHERE, CATALYSIS, MOLECULES AND
CELLS, WITH REFERENCE TO EXTRATERRESTRIAL LIFE

A64-10215

REQUIREMENTS FOR BIOLOGICAL EVOLUTION IN THE UNIVERSE, ON THE BASIS OF NATURE AND EVOLUTION OF STARS

A64-10216

THECRETICAL PREDICTIONS THAT 3 OUT OF 42 KNOWN STELLAR SYSTEMS MAY SUPPORT LIFE IF PLANETS HAVE EVCLVED FOR THESE STARS A64-10217

EXISTENCE OF LIFE ON PLANETS IN A BINARY SYSTEM, WITH REGARD TO HABITABLE ZONES, STABILITY OF PLANETARY ORBIT AND CONDITIONS FOR LIFE SUPPORT A64-10218

MESSENGER PROBES TO SURROUNDING STARS IN OUR GALAXY TO DETERMINE EXISTENCE OF EXTRATERRESTRIAL INTELLIGENT LIFE A64-10234

METEORITIC INVESTIGATIONS FOR DETECTING
EXTRATERRESTRIAL LIFE, PARTICULARLY EXAMINATION OF
CARBONACEOUS CHONDRITES A64-10876

PHYSICO-CHEMICAL PROPERTIES OF LIFE, THE EVOLUTION OF LIFE, AND EVIDENCE OF EXTRATERRESTRIAL LIFE

BASIC CONDITIONS FOR THE EXISTENCE OF LIFE IN THE UNIVERSE, AND ITS PROBABLE OCCURRENCE

A64-11415

LIFE DETECTION ON MARS, USING GAS CHROMATOGRAPHY A64-13439

CARBONACEOUS MATERIAL IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE FOR EVIDENCE OF EXTRATERRESTRIAL LIFE A64-14781

NCNPREVALENCE OF EXTRATERRESTRIAL LIFE IN OUR SOLAR SYSTEM, URGING CONCENTRATION ON TERRESTRIAL LIFE A64-15475

PHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERISTICS OF LIFE IN SPACE WITH OBSERVATIONS ON INTERPLANETARY TRANSMISSION OF BACTERIAL SPORES

A64-16475

RESULTS FROM FIELD TESTS OF GULLIVER AND DIOGENES EXPERIMENTS FOR DETECTING LIFE IN SEVERE NATURAL ENVIRONMENTS A64-18680

PREVENTION OF BIOLOGICAL CONTAMINATION ON EXTRATERRESTRIAL BODIES A64-18827

LIMONITE ENVIRONMENT MAY PROVIDE ECOLOGICAL BASIS FOR RESPIRATORY AND PHOTOSYNTHETIC MARTIAN ORGANISMS 464-18837

PROBABILITY OF EXTRATERRESTRIAL LIFE BASED ON ORIGIN OF TERRESTRIAL LIFE IN SPACE ENVIRONMENTS AND DIRECT EVIDENCE A64-24944

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS A64-24949

SOLAR ULTRAVIOLET RADIATION EFFECTS ON MICROORGANISMS AND RELATION TO GERM TRANSPORTATION IN INTERPLANETARY SPACE A64-24973

GNOTOBIOTIC TECHNIQUES CEVELOPED TO PROVIDE HIGH ORDER OF STERILITY FOR FABRICATION OF STERILE SPACECRAFT A64-24983

POSSIBILITY OF LIFE ORIGINATING IN SPACE BASED ON STUDY OF ENVIRONMENTAL CONDITIONS WHICH LED TO LIFE ON EARTH A64-25261

MARTIAN LIFE /MICROORGANISMS/ DETECTION AND IDENTIFICATION FROM SPACE PROBE CHEMICAL, MORPHOLOGICAL AND PHYSIOLOGICAL EVIDENCE A64-28342

EVIDENCE FOR AND AGAINST THE PRESENCE OF EXTRATERRESTRIAL LIFE FORMS IN THE ORGUEIL METEORITE A64-80161

PROGRESS OF MAN IN SPACE AND EXTRATERRESTRIAL LIFE - A POPULAR REVIEW A64-80238

PORPHYRINS FOUND IN THE ORGUEIL METEORITE AND THEIR RELATION TO THE ORIGIN OF LIFE

A64-80348

SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON MICROORGANISMS A64-80354

SPACE RADIATION RCLE IN SYNTHESIS OF ORGANIC COMPOUNDS LEADING TO CREATION OF LIFE

A64-80448

NATURE OF ORGANIZED ELEMENTS IN ORGUEIL AND IVUNA METEORITES A64-80449

ORIGIN OF CARBONACEOUS CHONDRITES AND

SUGGESTING BIOGENIC ORIGIN

EXTRATERRESTRIAL LIFE

A64-80450

AQUEOUS. LOW TEMPERATURE ENVIRONMENT OF ORGUETL METEORITE PARENT BODY AND SUSTENANCE OF LIFE A64-80451

ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES A64-80452

CHEMICAL ORIGINS OF LIFE ON EARTH AND OTHER PLANETS A64-80529

EXTRATERRESTRIAL LIFE AS RELATED TO ORIGIN OF TERRESTRIAL LIFE A64-80530

MANNED SPACE FLIGHT PROBLEMS AND POSSIBILITY OF LIFE ON OTHER PLANETS A64-80532

INFRARED SPECTRA OF MARS SUGGEST PRESENCE OF LIFE A64-80565

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS A64-80592

SPECULATIONS ON LIFE IN UNIVERSE, EVOLUTION OF MAN, AND BEGINNINGS OF UNIVERSE

A64-80595

TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BICLOGICAL AND ECONOMIC ASPECTS OF SPACE

A64-80786

FUTURE PLANS FOR SPACE PROBES IN RELATION TO COSMOLOGY, BIOGENESIS AND EXTRATERRESTRIAL LIFE A64-80790

PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE, LIFE FORMS, AND SOIL STUDY A64-80860 A64-80860

ORIGIN OF LIFE IN SPACE COMPARED TO THAT ON EARTH 464-80917

EVIDENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON EARTH AND IN SPACE A64-80942

INFECTION OF SPACECREW BY EXTRATERRESTRIAL MICROCRGANISMS A64-81026

ENVIRONMENTAL BIOPHYSICS, ORIGIN OF LIFE AND EXTRATERRESTRIAL MICROBIAL LIFE

SPECTROPHOTOMETER ATTACHMENT FOR DETECTION OF EXTRATERRESTRIAL LIFE

N64-10169 EXTRATERRESTRIAL LIFE - METEORITES, PLANETS,

AND OUTER SPACE ENVIRONMENTS N64-10599 POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING

EXTRATERRESTRIAL LIFE N64-11671

EVIDENCE FOR EXISTENCE OF LIFE ON MARS

N64-14741

BIBLICGRAPHY OF BIGREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION AMRL-TCR-63-121 N64-16095

ULTRAVICLET RACIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS NASA-CR-55655 N64-16109

BACTERIAL CELL CIVISION IN RELATION TO CXIDATION-RECUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE CETECTION NASA-CR-53734 N64-19577

RACICISCTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET SPECTROPHOTOMETRY NASA-CR-50815 N64-22760 HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES NASA-CR-50703 N64-22761

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE NASA-CR-50208

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL NASA-CR-56523 N64-22783

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE NASA-CR-56532 N64-22793

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS NASA-CR-58531 N64-28939

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE

N64-31026

CF INTRAOCULAR PRESSURE

CF LENS CF OCULAR CIRCULATION

CF RETINA CF VISION

SAMPLED DATA MODEL FOR EYE MOVEMENT CONTROL SYSTEM

SOLAR RADIATION EFFECTS ON EYE, SOLAR IRRADIANCE COMPUTATIONS UP TO 100 KM AND EYE PROTECTION FOR A64-14994

THRESHOLD RANGE FOR EYEBURN DAMAGE FOR EXOATMOSPHERIC NUCLEAR EVENT A64-18366

FREQUENCY, AMPLITUDE, LATENCY AND MAGNITUDE MEASUREMENTS OF CONDITIONED EYELID REFLEX A64-19521

HUMAN EYE MOVEMENT TRACKING SYSTEM FOR CONTROL PURPOSES A64-23105

SINGLE AND DOUBLE MIRROR SYSTEMS USED IN CONTACT LENS TECHNIQUES FOR MEASURING THREE ORTHOGONAL COMPONENTS OF OCULAR ROTATION A64-23796

NEURAL NET FOR MODIFICATION OF YOUNG SAMPLED DATA MODEL FOR EYE TRACKING MOVEMENTS

A64-23810

HEAD MOUNTED ELECTROCULAR DISPLAY SYSTEM COMPARED WITH CONVENTIONAL CONSOLE DISPLAY FOR TARGET DETECTION

EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT PERSONNEL A64-25007

NYSTAGMUS RECORDED SIMULTANEOUSLY IN THREE ORTHOGONAL PLANES A64-80339

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE RADIATION A64-80685

EYE FIXATION CONTROL BY AUDITORY FEEDBACK

A64-80905

BLCCD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA A64-80926

CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

OPTICAL LENSES AND PROTECTION OF RABBIT EYE AGAINST BALLISTIC MISSILES A64-81045

RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER

A64-81053

AXIAL LENGTH AND REFRACTIVE INDEX OF EMMETROPIC LIVING EYE IN MEN AND WOMEN A64-81074

THEORETICAL TOTAL REFRACTION INDEX OF UNACCEMBEDATED LIVING EYE CALCULATED FROM SIMPLE OPTICAL MODEL A64-81075

TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE CF CAT UCRL-11005

EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION ON TISSUES OF DOG EYE

ADAPTATION OF EYE TO FLASHBLINDNESS NADC-MA-6327

N64-15052

EYE FATIGUE STUDY

N64-20483

SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN

JPRS-24967 N64-21783 LIGHT AND COLOR IN NATURE, STRUCTURE OF HUMAN EYE.

AND HYGIENE OF COLOR VISION JPRS-25184 N64-22742

RRCTECTION OF HUMAN EYE FROM LASER BEAM TR-1153

N64-24092

ROLE CF EYE MOVEMENTS IN SPATIAL VISION

N64-25138

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE POTION FPRC-1207 N64-25847

HIGH CXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND DOULAR PHYSTOLOGY SAM-REVIEW-3-64

VISUAL ACAPTATION IN EYE OF MAN - ANTIBIOTIC EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF PULMONARY TISSUE IN MAN

N64-28425 RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT

N64-28788

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA ARL-TER-64-9 N64-32026

EYE DISEASE

JPRS-25464

CF GLAUCCMA EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT A64-25007

DIAGNESIS AND TREATMENT OF CORNEAL ENDETHELIAL DYSTROPHY IN FLYING PERSONNEL A64-80693

PSYCHOSOMATIC BASES FOR EYE DISEASES IN THE AVIATOR

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS WITH NORMAL VISION AND WITH VARIOUS VISUAL ANCMALIES A64-81033

EYE DISEASES WHICH INCAPACITATE FOR OCCUPATION RECUIRING OPERATION OF VEHICLES ON LAND, SEA, OR IN AIR A64-81326

EYE EXAMINATION

EYE MCTILITY EXAMINATION BY OBJECTIVE TECHNIQUES TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION

A64-13995

INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF GLAUCOMA INCIDENCE IN AVIATORS

A64-2 A64-20700

AEROMEDICAL SELECTION STANDARDS OF NATO NATIONS FOR AIRCREMS REEVALUATED A64-80269

VISUAL EXAMINATIONS FOR CIVILIAN AIR PERSONNEL A64-80460

HYPEROPIA, MYOPIA, AND ASTIGMATISM - DIAGNOSIS AND EVALUATION OF PHYSICAL FITNESS FOR OCCUPATIONAL OPERATION OF VEHICLES A64-81296

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS ARL/HE-15 N64-22133

EYE MOVEMENT

NEURAL NET FOR MODIFICATION OF YOUNG SAMPLED DATA MODEL FOR EYE TRACKING MOVEMENTS

A64-23810

CONTROL SYSTEM OF EYE IN TARGET TRACKING INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL IMAGE MOTION SERVING AS FEEDBACK

VISUAL-OCULOMOTOR TRACKING IN MAN - CHARACTERISTIC ELECTROCORTICAL ACTIVITY A64-80494

AUTOKINETIC ILLUSION - FREQUENCY AND DIRECTION OF MCVEMENT OF LIGHT STIMULUS RELATED TO SUGGESTION, EYE MOVEMENT, AND RELATIVE SENSORY DEPRIVATION A64-80576

OCULOMUSCULAR THEORY OF AUTOKINESIS

A64-80622

GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND PERCEPTION OF VERTICAL IN PRESENCE OF TILTED VISUAL FIELD A64-80703

EXTRAOCULAR FEEDBACK IN BINOCULAR RIVALRY A64-80744

EYE MOVEMENTS RECORDED DURING VIGILANCE

A64-R0795

464-80823

DISADVANTAGE OF PREDOMINANCE OF ANTICOMPENSATORY EYE MCVEMENTS DURING RAPID HORIZONTAL ROTATION OF HEAD A64-80862

RELATIVE DEPTH JUDGMENT AS FUNCTION OF EYE **HOVEMENT** A64-80974

EYE MOVEMENTS INVESTIGATED IN RELATION TO VISUAL ACUITY FOR MOVING OBJECT

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS DURING SENSORY DEPRIVATION A64-81 A64-81212

STEREODEPTH FROM AFTERIMAGES A64-81213

RCLE OF VESTIBULAR APPARATUS IN OPTOKINETIC NYSTAGMUS IN RABBIT

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL N64-30325

F- 2 LAYER LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL FREQUENCIES NASA-TT-F-9018 N64-23133

F-100 AIRCRAFT NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

F-105 ATRCRAFT BIOMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH

A64-80094 STUDIES OF F-105 PILOTS FACILITY CF TEST FACILITY AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY AD-435787 FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM N64-25472 MITNE-47 ELECTRON MICROSCOPE FACILITIES AND RESEARCH PROGRAM IN MOLECULAR BIOLOGY NASA-CR-59151 N64-33277 FACTOR AGE FACTOR HUMAN FACTOR PH FACTOR PHYSICAL FACTOR PHYSIOLOGICAL FACTOR PSYCHOLOGICAL FACTOR RACE FACTOR SAFETY FACTOR SOCIAL FACTOR TIME FACTOR FAILURE SA SYSTEM FAILURE
HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL
FAILURE OR MICROMETEOR IMPACT N64-17 N64-17550 SA RADIOACTIVE FALLOUT FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY N64-12908 FALLOUT - RADIONUCLIOE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE N64-12909 HASL-135 RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142 N64-13329 OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER N64-28141 MRD-1242-2530 **FAST NEUTRON** COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM N64-10326 JPRS-21521 GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794 FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM MITNE-47 EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740 N64-27649 S ADIPOSE TISSUE FAT EMBOLISM FAT EMBOLISM ASSOCIATED WITH UNEXPLAINED AIRCRAFT **ACCIDENT**

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBOLISM DURING DECOMPRESSION N64-12751 DVL-273

FAT EMBOLISM DURING DECOMPRESSION

N64-12755

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION N64-12756

FATIGUE S ACOUSTIC FATIGUE S FAILURE S FLIGHT FATIGUE

FATIGUE /BIOL/ ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS CN A64-13999 HUMAN PERFORMANCE

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND ISOTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS RESPONSES AS COMPARED TO MALE SUBJECTS UNDER SIMILAR CONDITIONS A64-2:

PHYSICAL STRESS EFFECTS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN MICE A6 A64-80015

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE OF OCULAR AND NECK MUSCLES A64-800 A64-80072

HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS SYSTEM FUNCTION DURING RELATIVE SENSORY DEPRIVATION A64-80235

KINETIC VISUAL ACUITY IN PILOT SELECTION AND A64-80315 EVALUATION OF FATIGUE

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS COMPARED TO MEN

ELECTRODERMAL SKIN RESPONSE TO FATIGUE IN AIRLINE A64-80873

PHYSIOLOGICAL AND PSYCHOGENIC ASPECTS OF ACUTE: SUBACUTE, AND CHRONIC FATIGUE A64-80930

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST A64-81054

WEIGHT LOAD EFFECT AND MOVEMENT SPEED ON COORDINATED ACTION OF ANTAGONIST PAIR OF A64-81055 MUSCLES IN HUMAN

ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK - INVESTIGATION OF CARDIOVASCULAR AND METABOLIC CORRELATES IN MAN

A64-81088

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION

ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY SLEEP DEPRIVATION A64-81154

DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR N64-10385 JPRS-21974

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION N64-12506

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE -ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM N64-14409 CAR I-63-12

EYE FATIGUE STUDY JPRS-24592

N64-20483

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI N64-21288 JPRS-24961

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE N64-21840 AD-432086

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS N64-21938 FTD-TT-63-1015/18284

FATTY ACID CONCENTRATION OF NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD UNDER DIFFERENT EXPERIMENTAL

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL

STERILIZED FIBERS FOR CLINICAL MEDICINE

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE

METHOD OF TREATMENT OF AURICULAR FIBRILLATION
NASA-TT-F-8555
N64-

JPRS-23609

JPRS-25252

FIBRILLATION

N64-11318

A64-80071

A64-80586

N64-14695

N64-24626

N64-28902

N64-28949

EXERCISE A64-80884 FIBRIN THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN STARVATION AND REFEEDING EFFECTS ON LIPOGENESIS BLOOD COAGULATION HEMOSTATIC PROCESS AND FREE FATTY ACID METABOLISM IN CHESE AND NONCHESE HUMAN JPRS-19219 A64-81C47 FIBRINGGEN VARIATION IN PLASMA FREE FATTY ACIDS IN RESTED IMMUNOLOGICAL RENOVAL OF IODINE-131 LABELED RABBIT FASTING SUBJECTS A64-81173 ANTIBODY TO RAT FIBRINGGEN IN NORMAL AND TUMOR-BEARING RATS PLASMA NGNESTERIFIEC FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION NASA-TT-F-197 BICCHEMISTRY OF X-RAY IRRADIATION EFFECT ON BLOOD PROTEIN REACTIONS, DISULFIDE BONDS OF FIBRINOGEN, AND SYNTHESIS OF AMINO ACIDS N64-26782 FAULT MECHANICS FAULT ISCLATION PRESENTATION AMPL-TCR-64-57 JPRS-24164 N64-31944 FIELD FEAR OF FLYING ELECTRIC FIELD FEAR CF FLYING SYNDROME - REAPPRAISAL AND ELECTROMAGNETIC FIELD PREGNESIS A64-80181 ELECTROSTATIC FIELD GRAVITATIONAL FIELD **FECES** MAGNETIC FIELD REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN SOUND FIELD PRCLONGED EXPERIMENTS A64-80042 FIELD EMISSION FECAL FLORA IN MAN UNDER NORMAL CONDITIONS AND IN SPACE FLIGHT SIMULATION WITH SPECIAL DIET MAGNETIC FIELD A64-80822 FIELD THEORY S CUANTUM THEORY NORMAL FECAL BACTERIAL FLORA OF MAN - MORPHOLOGICAL TYPE CULTURES FIGURAL AFTEREFFECT NASA-CR-59257 N64-33288 FIGURAL AFTEREFFECTS INFLUENCED BY EXPOSURE VARIABLES IN TACHISTOSCOPIC PRESENTATION **FFFDBACK** SUPPLEMENTARY FEEDBACK IN ROTARY PURSUIT TRACKING A64-80758 FIGURAL AFTEREFFECT STUDIED BY TACHISTOSCOPIC EXPOSURES OF STIMULI ROLE OF FEEDBACK IN PERCEPTION OF TONES WITH AND WITHOUT BACKGROUND GAUSSIAN NOISE FILM BOILING A64-80857 VAPOR EYE FIXATION CONTROL BY AUDITORY FEEDBACK FILTER A64-80905 SA BAND PASS FILTER
EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS POTABLE WATER FROM URINE USING MEMBRANE FILTERS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS AMR1-TDR-63-113 AMRL-TCR-64-39 N64-26884 ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL ENHANCEMENT OF WORK PERFORMANCE BY ORALLY PRESENTED RESULTS N64-27096 EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE FILTERS AND STRUCTURES CONTROL HANDLING TASKS NAVTRADEVCEN-IH-14 AMRL-TER-64-46 N64-27433 MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY WATER FROM CABIN AIR DEHUNIDIFIERS CF VOCAL CORDS N64-30394 FEEDBACK CONTROL SYSTEM CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH CONTROL SYSTEM OF EYE IN TARGET TRACKING INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL IMAGE MOTION SERVING AS FEEDBACK BLINDNESS PREVENTION MR-64-1 464-25747 **FILTRATION** FEEDING DEVICE MANUALLY OPERATED PELLET FEEDER FOR PRIMATES IN MEMBRANE FILTERS A64-80188 NASA-CR-51575 CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-1 N64-11703 AMRL-TDR-63-113 FERRITE S CARBON FINGER **FERROMAGNETISM** POLARIZATION

N64-32299 URINE ULTRAFILTRATION FOR WATER RECOVERY USING N64-11383 EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS N64-14695 TACTILE SENSITIVITY THRESHOLD OF FINGER IN RELATION TO SKIN TEMPERATURE A64-80120 FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH AND WITHOUT GLOVES AMRL-TDR-64-41 N64-27444 FINISH S PAINT FINITE-STATE MACHINE MATRIX ANALYSIS OF TRANSFER STATE OF NONSYNCHRONOUS FINITE AUTOMATONS N64-24690

N64-16545

N64-26056

N64-23117

FIRE FIRE SURVIVAL FOLLOWING CONTROLLED AIRCRAFT CRASHES A64-13996 FIRE HAZARO IN LOW PRESSURE OXYGEN ATMOSPHERE N64-22705 REPT -- 4 FIRE CONTROL IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS BY USE OF TRAINING AIDS NAVTRACEVCEN-1105-1 N64-29280 FIRE PREVENTION OXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND EFFECT ON BURNING RATE OF FABRICS FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION CF SPACE CABIN ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE A64-80208 TRAVEL HYPOXIA AND HYDROSTATIC PRESSURE EFFECTS ON CONDITIONED REFLEXES IN FISH A64-81288 EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED REFLEXES IN SEA FISH NASA-TT-F-189 N64-11564 CONDITIONED REFLEX TO MAGNETISM IN FISH NASA-TT-F-190 N64-12962 GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS GF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO N64-18334 JPRS-23944 FISSION PRODUCT PRCCECURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS N64-11206 COUNTING SYSTEM

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALEC FISSION PRODUCTS WITH AUTOMATIC READOUT LF-13 N64-14750

FITNESS

FLARE

S PHYSICAL FITNESS

S SOLAR FLARE

FLASH BLINDNESS CF DAZZLE CF VISION

PHOTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM A64-12989 DAZZIE

FLASHBLINDNESS PROBLEMS EVALUATED, CISCUSSING RELATION OF ADAPTATION OF EYE TO CHANGING LIGHTING CONDITIONS AND RECOVERY OF SENSITIVITY TO FUNCTIONAL LEVEL

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH **BLINDNESS PREVENTION**

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES TDR-2

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE SAM-TDR-64-36 N64-33352

FLEXIBILITY S ELASTICITY

FLICKER FUSION FREQUENCY DECLINE IN FLICKER FUSION FREQUENCY AFTER INTERMITTENT STIMULATION WITH LIGHT SIGNALS OR A64-80091 **LETTERS**

FLIGHT

BALLOON FLIGHT

INTERPLANETARY FLIGHT

JET FLIGHT

POSTFLIGHT

FLIGHT ALTITUDE GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT N64-31508

GEOGRAPHICAL CRIENTATION DURING LOW ALTITUDE N64-31509

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511

FLIGHT CLOTHING CF PRESSURIZED SUIT
CF PROTECTIVE CLOTHING CONTACT DERMATITIS OF HANDS OF PILOT DUE TO WEARING UNLINED FLIGHT GLOVES, NO. B3A

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION

FTD-TT-63-774/162 N64-22180

TESTS OF ELECTRICALLY HEATED FLIGHT CLCTHING EPRC/MEMO-200 N64-25844

FLIGHT CONDITION SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONCITIONS ARL-TDR-64-4 N64-26197

FLIGHT CONTROL CF ATTITUDE CONTROL CF MANEUVER FEASIBILITY OF PILOT CONTROL OF THE X-20/
TITAN III BOOSTER, GIVING RESULTS OF SIMULATION
WITH BOOST CONSTRAINTS A64-12

CONTROL SYSTEM OPTIMIZATION WITH RESPECT TO EFFICIENCY AND RELIABILITY DISCUSSED IN TERMS OF MAN-MACHINE ADAPTABILITY

VISUAL GUIDANCE AIDS FOR MANUAL FLIGHT CONTROL A64-23298

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT N64-16489 CAL-TH-1715-E-5

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE AD-441953 N64-30199

FLIGHT DUTY LEFT BUNDLE BRANCH BLOCK IN FLYING PERSONNEL A64-80172

FLIGHT FATIGUE FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING A64-1948 A64-19489

JET CREW FATIGUE EMPHASIZING EFFECTS OF VISUAL DIFFICULTIES, NOISE, OZONE CONTAMINATION, COLDS AND SMOKING A64-19800

PHYSIOLOGICAL AND PHARMACOLOGICAL EFFECTIVENESS OF ADENOSINETRIPHOSPHORIC ACID AND COCARBOXYLASE IN TREATMENT OF PILOTS AFFLICTED WITH FLIGHT FATIGUE A64-24099

MEDICAL PROBLEMS OF CIVILIAN AIR TRANSPORT A64-80158 ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT OF JET PILOT WITH FLIGHT FATIGUE

A64-81069

FLIGHT FITNESS

PROCEDURES DEVISED FOR DIVERS, SUBMARINERS, AND PILOTS FOR CHECKING THEIR ABILITY TO REGULATE PRESSURE IN MIDDLE EAR A64-80949

CARDIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPOXIA - METHOD DEVELOPED FOR FLIGHT FITNESS EXAMINATION A64-8123

EYE DISEASES WHICH INCAPACITATE FOR OCCUPATION REQUIRING OPERATION OF VEHICLES ON LAND, SEA, OR IN AIR A64-81326

FLIGHT HAZARD

INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM FUMES FROM FLUOROCARBON RESIN PYROLYSIS

A64-22065

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK -ELECTRCCARDIOGRAPHIC ANOMALY REPT--15 N64-1477

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS -ELECTROENCEPHALOGRAPHIC STUDIES CARI-63-21 N64-

N64-14952

FLIGHT INSTRUMENT

HEAD-UP DISPLAY SYSTEM FOR LOW FLYING OVER HILLS AND POOR WEATHER APPROACHES A64-28588

FLIGHT SAFETY

AIRCRAFT ACCIDENTS AND FATALITIES WITH EMPHASIS ON EJECTION AT SAFE ALTITUDE A64-20697

RELATIONSHIP OF FREQUENCY OF PATHOLOGICAL DEFECTS OF SAMPLE PILOTS IN AIRCRAFT ACCIDENTS TO SAME DEFECTS IN TOTAL PILOT POPULATION

A64-25549

PROPOSED UNIVERSAL SYMBOL TO WARN AVIATION PERSONNEL OF ADVERSE DRUG EFFECTS

A64-80843

STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY A64-80851

SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT FTD-TT-62-1605/1 N64-12849

ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN AIRCRAFT FLIGHT SAFETY N64-22042

FLIGHT SINU ATTOM

METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK A64-20696

ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT LIFE SUPPORT SYSTEMS A64-23200

PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS RELATED TO SKIN AND RECTAL TEMPERATURES

A64-80179

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

DISADVANTAGE OF PREDOMINANCE OF ANTICOMPENSATORY
EYE MOVEMENTS DURING RAPID HORIZONTAL ROTATION OF
HEAD A64-80862

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS

N64-1152

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT NACC-MA-6308

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING

SMCOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT

N64-28948

CREN PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 N64-29206

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR
TURBULENCE ON JET AIRLINE PILOTS
NADC-ML-6411
N64-31666

....

FLIGHT SIMULATOR

DESIGN CRITERIA FOR FLIGHT TRAINING DEVICES AND SIMULATORS, WITH EMPHASIS ON TASK FIDELITY

A64-13776

PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR FOR ASTRONAUT TRAINING SAE PAPER 866H

FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL CONTROL A64-80989

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS
AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS
N64-13457

SIMULATOR STUDY OF HUMAN PERFORMANCE DURING LOW ALTITUDE, HIGH SPEED FLIGHT TRECOM-TR-63-52 N64-16648

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR 1AM-TM-226 N64-25821

GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR NATRADEVCEN-294-5

FLIGHT TEST

B-58 ESCAPE CAPSULE FLIGHT TEST OF EIGHT EJECTIONS AT SUBSONIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION A64-13510

FLIGHT TRAINING

SA EJECTION TRAINING
SA SPACE FLIGHT TRAINING
SA SPACE FLIGHT TRAINING
SPACECRAFT PILOT SELECTION AND TRAINING FOR
MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING
ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT
SCHOOL

A64-11340

PILOT TRAINING PROGRAM FOR THE HYPERSONIC X-20 AIRCRAFT COVERING GROUND TRAINING, FLIGHT SIMULATOR AND X-15 EXPERIENCE A64-11341

RELATIONSHIP OF VESTIBULAR TEST RESPONSES, ESPECIALLY THOSE WHICH ARE ELECTRONYSTAMOGRAPHIC, TO PILOT PERFORMANCE DURING FLIGHT TRAINING A64-12380

PHYSIOLOGICAL FACTORS IN THE TRAINING OF AIRCREM IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS

A64-13512

CORRELATION OF MATHEMATICS AND PHYSICS GRADES WITH FLIGHT TRAINING GRADES IN BASIC AND ADVANCED STAGES A64-19139

MEDICAL SUPPORT AND TRAINING OF FLYING PERSONNEL IN HIGH ALTITUDE FLYING A64-80394

MOTOR VEHICLE ACCIDENTS OF FLYING AND NONFLYING AIR FORCE PERSONNEL AS RELATED TO SELECTION AND TRAINING A64-80686

PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT TRAINING REPT.-38 N64-30148

FLIGHT VEHICLE S HELICOPTER

A-101

FLOW

BOUNDARY LAYER FLOW

FLOW VELOCITY GAS FLOW

HEAT FLOW

FLOW METER

CATHETER-TIP FLOW METER FOR MEASUREMENT OF CORONARY ARTERIAL BLOOD FLOW IN DOGS N64-29989

FLOW THEORY S HYDRODYNAMICS

FLOW VELOCITY

COMPUTATION OF BLOOD FLOW VELOCITY FROM PRESSURE PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC A64-80259

FLUID

BODY FLUID

LIQUID

FLUID MECHANICS

AERODYNAMICS

GAS DYNAMICS
HYDRODYNAMICS

THERMODYNAMICS

FLUORESCENCE

PHCTOSYNTHESIS AND FLUORESCENCE DURING VARIOUS
STAGES OF CELL GROWTH IN SYNCHRONIZED CULTURES OF
CHLORELLA PYRENCIDOSA A64-8080 A64-80805

FLUORESCENCE OF CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO VARYING CONCENTRATIONS OF PLASMOLYTICS AT DIFFERENT STAGES OF CELL 464-80806 DEVELOPMENT

PHOTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE A64-80808

ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES JPRS-19287

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE GRANGE DYE JPRS-22521

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64 N64-23434

HYGIENE & SANITATION — EFFECT OF LOW CONCENTRATION OF FLUCRINE, SANITARY INDICES FOR WATER RESERVOIR,

AND AIR IGNIZATION JPRS-19067 N64-11064

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUORCCARBON RESIN PYROLYSIS A64-80637

FLUTTER VIBRATION

FILLIORDCARRON

FLYING

HIGH ALTITUDE FLYING

S HIGH SPEED FLYING

FLYING PERSONNEL POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER OCCUPATIONS

INTERVERTEBRAL DISK DISEASE IN FLYING PERSONNEL A64-13994

CORRELATION OF FLYING APTITUDE WITH ELECTRO-ENCEPHALOGRAM FOR AIRCREW SELECTION A64-19137

LEFT BUNDLE BRANCH BLOCK IN FLYING PERSONNEL A64-80172 TREATMENT OF SEVERE DECCMPRESSION SICKNESS IN A64-80216 AVIATORS

CORNEAL CONTACT LENSES FOR FLYING PERSONNEL IN MILITARY AVIATION - CLINICAL EVALUATION A64-80401

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL 464-80506

MEDICAL PROBLEMS OF FLYING PERSONNEL

A64-80594

ATRIAL FIBRILLATION IN FLYING PERSONNEL

464-80659

MOTOR VEHICLE ACCIDENTS OF FLYING AND NONFLYING AIR FORCE PERSONNEL AS RELATED TO SELECTION AND A64-80686 TRAINING

DIAGNOSIS AND TREATMENT OF CORNEAL ENDOTHELIAL DYSTROPHY IN FLYING PERSONNEL A64-8 A64-80693

CORONARY DISTURBANCES AND FLYING AS RELATED TO A64-80769 PILOT SELECTION EXAMINATIONS

AIRLINE FLIGHT SURGEON DUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

ELECTRORETINOGRAPHY - USEFULNESS IN SELECTION OF A64-80802 FLYING PERSONNEL

KIDNEY DISEASES WHICH PREVENT PILOT TRAINING A64-80804

NEUROLOGICAL ABNORMALITIES IN CIVILIAN PILOTS AND AIR TRAFFIC PERSONNEL REQUIRING MEDICAL A64-80836 CERTIFICATION

PROPOSED UNIVERSAL SYMBOL TO WARN AVIATION PERSONNEL OF ADVERSE DRUG EFFECTS

A64-80843

SURGERY FOR MASSIVE UPPER GASTROINTESTINAL HEMORRHAGE IN FLYING PERSONNEL A64-80869

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY AIR FORCE CREWS AND RECRUITS A64-80947

TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICO-A64-81160 LEGAL ASPECTS

LIST OF REPORTS FOR FLYING PERSONNEL

N64-28114

FLYING QUALITY HAND PREFERENCE IN PILOTS AS RELATED TO FLYING A64-80690

FOCUS OPTICS

FOIL

ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA DOS IMETRY N64-21523 AFSWC-TDR-62-107

FOLDING STRUCTURE

BALLOON

PARACHUTE

FOLIC ACID HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY A64-80750 FOLIC ACID AND CYSTEINE

FOOD

SA SPACE FOOD CF DIET CE NUTRITION

PHOTOSYNTHESIS EXPERIMENTATION IN ORDER TO STUDY FEASIBILITY OF SYNTHETIC MANUFACTURE OF FOOD A64-13745

IONIZING RADIATION AS A FOOD PRESERVATIVE N64-10694 JPRS-17530

N64-23617

PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING TID-19206 N64-12968

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR. WATER, AND FOOD MM-79652 N64-14924

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING COCKING OF BONES, MEAT, POTATOES, AND CABBAGE JPRS-24139 N64-18114

IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY JPRS-24187 N64-18968

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID N64-19097

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TDR-64-35

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE NASA-TT-F-9146 N64-3340 N64-33407

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD PR-14 N64-33993

FOOD INTAKE

FOCD PACKAGING AND HANDLING UNDER ZERO-G CONDITIONS OF SPACE A64-22654

BICCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN ON SPACE MISSION 464-24616

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE 464-80184

BODY WATER BALANCE AS AFFECTED BY WATER INGESTION IN MAMMAL A64-80548

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS

SODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE A64-80552

RESTRICTED WATER INTAKE AS RELATED TO WATER BALANCE AND FOOD INTAKE IN RAT A64-80555

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO COLD A64-80 A64-80783

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-808

EFFECT OF PROLONGED ACCELERATION ON EATING. BODY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL EXERCISE

DECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED CENTRIFUGATION A64-80914

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER A64-80991 FORCE

CF CENTRIFUGAL FORCE CF CENTRIPETAL FORCE CF INERTIAL FORCE CF PRESSURE CF TORQUE MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT

CAR I-63-9 FORM PERCEPTION CF PERSPECTIVE

COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE

FORM RECOGNITION AT BRIEF DURATION AS FUNCTION OF ADAPTING FIELD AND INTERVAL BETWEEN STIMULATIONS

VISUAL PATTERN RECOGNITION AS FUNCTION OF REDUNDANCY A64-80473

JUDGMENT OF SLANT WITH CONSTANT OUTLINE CONVERGENCE AND VARIABLE SURFACE TEXTURE GRADIENT A64-80579

VOLUME JUDGMENT FROM PHOTOGRAPHS OF COMPLEX SHAPES AND UTILIZATION IN AIRCRAFT ACCIDENT INVESTIGATION A64-80588

COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS A64-80603

VIEWER INTERPRETATION AND CONNOTATION OF ABSTRACT VISUAL FORMS A64-80634

FREQUENCY OF OCCURRENCE AND IDENTIFICATION OF AMBIGUOUS PERCEPTUAL FORM A64-80706

EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES A64-80746

SLANT PERCEPTION RELATED TO ESTIMATE OF AVERAGE SIZE OF TEXTURE ELEMENTS IN VISUAL PATTERN

SLANT PERCEPTION - GESTALT, HELMHOLTZ, AND GIBSON THEORIES A64-81159

TRANSFER IN PERCEPTUAL LEARNING FOLLOWING STIMULUS PREDIFFERENTIATION A64-81200

FORMALDEHYDE

SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL STERILIZATION BY ETHLENE OXIDE A64-80 A64-80463

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS FTD-TT-64-97/164 N64-25462

FORMIC ACID BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID N64-13968

FRACTIONATION FREE STREAM FRACTIONATION OF CELLS IN RAT BONE N64-22857

FRAME S GRID

FRANCE

DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY LANDINGS IN FRANCE A64-802 A64-80285

FREE FALL HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE CARI-63-15 N64-11995

FREE RADICAL CF ION

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS

N64-10854

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS N64-12896

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING N64-28036 BICLOGICAL OXIDATION

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE N64-22857

FREEZING

MATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE N64-18789 AMRL-TCR-63-130

FREQUENCY

- AUDIOFREQUENCY FREQUENCY RESPONSE
- HIGH FREQUENCY
- LOW FREQUENCY
- ULTRAHIGH FREQUENCY

FREQUENCY ANALYSIS S OSCILLOSCOPE

FREQUENCY BAND S J-BAND

FREQUENCY RESPONSE

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE N64-15540 NASA-CR-55624

FROG

ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES JPRS-19287 N64-11068

RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS N64-13869 SAM-TDR-63-66

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG N64-21049

NITROGEN COMPOUNCS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS N64-21056 NT.15-R-421

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION

CRIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL

OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY N64-31542

FUEL

SA JET FUEL CF CARBON CF PETROLEUM CF PROPELLANT

DERMATCLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY

N64-28631 JPRS-16055

FUEL CELL BICCHEMICAL FUEL CELL

FUME

S GAS

FUNCTION

- S FUNCTION TEST S RENAL FUNCTION
- SWITCHING FUNCTION

S TIME FUNCTION S TRANSFER FUNCTION

FUNCTION SPACE S EUCLIDEAN SPACE

FUNCTION TEST

CF DIAGNOSIS CARDIOVASCULAR EXAMINATION IN SELECTION OF AIRCREM

EYE MOTILITY EXAMINATION BY OBJECTIVE TECHNIQUES TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION A64-13995

HEART RATE RESPONSE TO VALSALVA MANEUVER AS TEST OF CIRCULATORY INTEGRITY A64-80008

POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS SYSTEM STABILITY A64-80254

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED A64-80255

CRANIAL BLOOD FLOW MEASURING TECHNIQUE USING ISOTOPE BOLUS PROPELLED TOWARD HEART FROM VENIPUNCTURE 464-80258

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

OBJECTIVE MEASUREMENT OF VISUAL ACUITY BY NEW A64-80512 METHOD

MASTER EXERCISE TOLERANCE TEST IN DIAGNOSIS AND PROGNOSIS OF REDUCED CORONARY CIRCULATION

SPECTROPHOTOMETRIC DETERMINATION OF CARDIAC OUTPUT BY MEANS OF NEW DYE, PATENT BLUE A

MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE

PROCEDURES DEVISED FOR DIVERS, SUBMARINERS, AND PILOTS FOR CHECKING THEIR ABILITY TO REGULATE A64-80949 PRESSURE IN MIDDLE EAR

AMPLITUDE, FREQUENCY AND DURATION OF NYSTAGMUS IN RESPONSE TO ANGULAR ACCELERATION RELATED TO VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY A64-80986

FACTOR ANALYSIS OF CARDIOVASCULAR TEST VARIABLES A64-81224

CARDIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPOXIA - METHOD DEVELOPED FOR FLIGHT FITNESS EXAMINATION

CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING **FOUIPMENT** SAM-TDR-63-56 N64-12176

FUNCTIONAL ANALYSIS

COMPARISON OF METHODS FOR EVALUATING PROTECTIVE A64-81322

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING -PSYCHOLOGY N64-10852 JPRS-21976

FUNGUS

CF YEAST ENDOGENOUS PERIODIC GROWTH BAND FORMATION IN NEUROSPORA DEPENDENT ON MEDIUM TEMPERATURE AND A64-28416 COMPOSITION

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY A64-80855 MICROORGANISM

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS AMRL-TDR-63-72 N64-11461

FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS

REPT -- 252

N64-18148

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI AMRL-TER-64-52 N64-29974

G

6 FORCE

CF ACCELERATION STRESS
CF GRAVITY PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PRCTECTIVE CLOTHING

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13

G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE N64-14134

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456

GALACTIC EVOLUTION STELLAR EVOLUTION

GALACTIC RADIATION

RACIATION COSES DUE TO VAN ALLEN BELTS, GALACTIC COSMIC RAYS AND SOLAR COSMIC RAYS FOR INTERPLANETARY FLIGHT A64-27129

POSSIBLE HAZARD OF GALACTIC AND SOLAR RADIATION BETWEEN 20 AND 30 KILOMETERS A64-80770

RROPERTIES OF SOLAR, AND GALACTIC RADIATION AND METHODS OF RADIATION SHIELDING A64-RO A64-80789

GALAXY

S GALACTIC RADIATION

GALLATE

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE JPRS-19269 N64-11349

RADIATION PROTECTION AND THERAPY FOR RADIATION

SICKNESS - GALLATE THERAPY JPRS-23834 N64-17555

GAME THEORY

CF ARTIFICIAL INTELLIGENCE

HUMAN BEHAVIOR IN FUNGUS EATER GAMES ESC-TDR-64-237

N64-22267

GAMMA GLOBULIN

GAMMA GLEBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED

JPRS-26956

N64-32750

GAMMA RADIATION

CF SPACE RADIATION GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND

CCCURRENCE OF CROSSING OVER IN CHROMOSOMES OF MALE DRCSOPHILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION

ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION JPRS-21975 N64-10386

RACIOLOGICAL SURVEY CORRELATING GAMMA RADIATION LEVEL WITH GEOLOGY CEX-6164 N64-10407

RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS

JPRS-17533 N64-10561

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS

JPRS-22017

N64-10664

BIGHEDICAL CHARACTERISTICS OF GAMMA RADIATION SICKNESS IN RATS

N64-10744

EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS

N64-10935

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY JPRS-22107

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS JPRS-22120

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MCNKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES JPRS-22121

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS JPRS-22123

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION JPRS-23983

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS N64-20945

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN FTD-TT-63-1064/18264 N64-22363

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS

N64-22731

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS AD-600960 N64-25308

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN ALBING RAT

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN QPR-52 N64-29872

SA EXPLOSIVE GAS SA INERT GAS SA RARE GAS

N64-17934 CF AIR CF ATMOSPHERE CF VAPOR GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING GASEOUS REQUIREMENTS FOR MANNED SPACECRAFT 464-80479 ATMOSPHERE - A REVIEW VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE OF LUNGS N64-17941 GAS EXCHANGE IN LUNGS OF MAN SID-63-755 N64-10137 RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND N64-17956 DUSTS N64-10205 JPRS-21771 PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE N64-22218 FPRC-1212 N64-12346 CART-63-11 GAS EXPLOSION S EXPLOSIVE GAS GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY N64-17955 GAS FLOW GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE GAS CHROMATOGRAPHY LIFE DETECTION ON MARS, USING GAS CHROMATOGRAPHY N64-17949 GAS CHROMATOGRAPHY FOR ANALYSIS OF PERMANENT AND VOLATILE ORGANIC GASES IN CLOSED CABIN ATMOSPHERES GAS INJECTION HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO A64-80842 FLOW FIELD AT NOSE REPT.-2-59740/3R-479 DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS N64-17937 CHROMATOGRAPHY GAS-LIQUID INTERACTION COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN N64-22861 GAS CHROMATOGRAPHIC DETERMINATION N64-19822 SAM-TOR-64-1 GAS MIXTURE LOWER LIMIT OF FRONT GAS REACTIONS DETERMINED IN COMBUSTIBLE MIXTURES OF ORGANIC WASTE IN LIMITED HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES AND UNLIMITED SPACE NASA-CR-50703 N64-22761 RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS MANNED SPACE CAPSULES NAEC-ACEL-518 N64-22773 NASA-TM-X-50806 N64-17659 GAS COMPOSITION GAS PRESSURE GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17948 N64-17940 GAS DENSITY GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL GAS TRANSPORT EXPIRATORY FLOW VOLUME RELATIONSHIP GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF A64-80068 AMBIENT TEMPERATURE ON TRANSFER RATE N64-17949 GAS DISCHARGE TOXIC CASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754 GAS VISCOSITY GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL EXPIRATORY FLOW VOLUME RELATIONSHIP GAS DYNAMICS A64-80068 AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY GASOLINE N64-18632 AD-435787 CF PETROLEUM CHRONIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTROENCEPHALOGRAM IN MAN A64-80 GAS EXCHANGE CF OXYGEN PRODUCTION
DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE
USED FOR SUPPORT OF HUMANS IN SPACE GASTROINTESTINAL SYSTEM A64-24976 CF INTESTINE MASS PRODUCTIVITY OF CHLORELLA IN NONSYMMETRIC BICLOGICAL CULTIVATOR, NOTING IRRADIATED SURFACE AND SUSPENSION VOLUME REQUIRED FOR GAS EXCHANGE **PROCESSES** A64-25612 SURGERY FOR MASSIVE UPPER GASTROINTESTINAL TRANSPORT PROCESSES IN ORGANISM - EQUATIONS AND HEMORRHAGE IN FLYING PERSONNEL ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE A64-80562 UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT ALVEGLAR CARBON DIGXIDE EQUILIBRIA IN BREATH-HOLDING EXPERIMENTS WITH HUMANS

A64-80749 PHYSIOLOGICAL TELEMETRIC METHOD USING SWALLOWABLE RADIOCAPSULE FOR STUDY OF GASTROINTESTINAL A64-80869 A64-81021 USE OF RADIOCAPSULE IN PH DETERMINATION OF A64-81022 GASTROINTESTINAL CONTENT DIURNAL VARIATIONS OF GASTRIC SECRETION IN A64-81312 MONKEY ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL ACTIVITY OF STOMACH DURING DIGESTION N64-10850 JPRS-21925

A64-80741

N64-13715

N64-16325

PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING

IN PHOTOSYNTHETIC GAS EXCHANGERS

ECCLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE

ECCLOGICAL SYSTEM

NASA-CR-55423

RACIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT

N64-24007

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM UR-648 N64-31319

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

WATER INTOXICATION CUE TO GASTRIC LAVAGE IN CASES
OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056
N64-31445

GASTROINTESTINAL TRACT

ANATOMICAL & PHYSICLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RACIDACTIVE CONTAMINATION IN FOOD CHAIN EUR-465-F
N64-16927

GAUGE

S STRAIN GAUGE

GAUSSIAN NOISE

DETECTION OF TONAL SIGNAL IN BACKGROUND OF GAUSSIAN NOISE, EXAMINING STATISTICS OF STIMULUS A64-18CC1

GEMINI PROJECT

ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS
INVOLVED IN SELECTION AND VALIDATIONS OF
ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND
APCLLO MISSIONS
A64-13517

MERCURY PRESSURE SUIT AND SPACE SUIT DESIGN FOR RRCJECT GEMINI, NOTING TEMPERATURE CONTROL BY VENTILATION DISTRIBUTION SYSTEM

A64-18995

SPACE MENUS DEVELOPED FOR PROJECTS MERCURY AND GEMINI A64-80397

FUNCTION OF PROJECTS GEMINI AND APOLLO IN MANNED SPACE FLIGHT A64-80523

GENERATOR

S POWER GENERATOR

GENETICS

SA CYTOCHROME
CF CHRCMCSOME
FERTILIZATION, MULTIPLICATION AND DEVELOPMENT OF
DRCSCPHILAS /FRUIT FLIES/ UNDER CONDITIONS OF
MEIGHTLESSNESS A64-18576

COMINANT LETHAL MUTATIONS OF MALE DROSOPHILAS
/FRUIT FLIES/ RESULTING FROM CRBITAL FLIGHT
ONBOARD VOSTOK SPACESHIPS
A64-18577

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

A64-2558

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS CF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT STATES OF SPERMATOGENESIS A64-27144

IONIZING RADIATION EFFECT ON STABILITY OF GENETIC INFORMATION STORAGE AND TRANSMISSION MECHANISMS IN TERMS OF CYBERNETICS

A64-27587

STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION A64-28414

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS

A64-R0592

EFFECT OF IONIZING RADIATION ON HEREDITARY
MOLECULAR STRUCTURES - BIBLIOGRAPHY
LPRS-21754
N64-10121

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MECICINE, AND BIOPHYSICS JPRS-21868 N64-10328

MICROBICLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF

SPACE FLIGHT

N64-11670

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANDGASTER INSECTS

N64-11680

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-12393

RADIATION AND CHEMICAL GENETIC EFFECTS JPRS-22581

-22581 N64-12701

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA JPRS-23787 N64-17805

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056

LIMIT OF GENETIC CONTROL OF BRAIN STRUCTURE
N64-18834

GENETIC STUDIES IN SPACE ENVIRONMENTS
NASA-CR-55359 N64-22767

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION

N64-22852

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI NASA-RP-296 N64-28231

HUMAN BIOCHEMICAL GENETICS

N64-32163

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES QTSR-1 N64-32514

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307

GEOCHEMISTRY

BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES

JPRS-22672

N64-13007

GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIPS OF LIVING ORGANISMS WITH ENVIRONMENTAL FACTORS JPRS-24978 N64-21481

GEOGRAPHY CF ARCTIC

SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS -PHYSIOLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MAMMAL A64-80421

GEOGRAPHIC ORIENTATION & DISORIENTATION OF AIRCRAFT PILOTS TR-751-1 N64-13608

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION JPRS-25347 N64-28007

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LCW ALTITUDE HIGH SPEED FLIGHT ACR-95 N64-31508

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE FLIGHT N64-31509

GECLOGY

CF GEOCHEMISTRY

RACIOLCGICAL SURVEY CORRELATING GAMMA RADIATION
LEVEL WITH GEOLOGY
CEX-6164

N64-10407

GEOMAGNETICALLY TRAPPED PARTICLE
EMERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY
TRAPPED RADIATION AS HAZARDS TO MANNED SPACE
TRAVEL
A64-11457

GECMAGNETISM
S GEOMAGNETICALLY TRAPPED PARTICLE

GEOMETRICAL OPTICS
ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC
GEOMETRIC DESIGNS AT VARIOUS ANGLES
HSR-RR-61/13-MK-X
N64-10446

GEOMETRY S SURFACE GEOMETRY

GEOPHYSICS S GEOCHEMISTRY

GERMANIUM CHLORIDE
TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM
TETRACHLORIDE, AND ALIPHATIC AMINES
JPRS-25116
N64-23366

GERMANIUM COMPOUND
TOXIC PROPERTIES OF GERMANIUM TETRACHLORIDE
N64-23369

GERONTOLOGY
CF AGING
AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL
ASPECTS
A64-80531

GLAND
SA ADRENAL GLAND
SA ENDOCRINE SYSTEM
SA PAROTID
SA PITUITARY GLAND
SA PROSTATE GLAND
SA TESTIS
SA THYROID

SA INTROLD

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED

SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE

ENVIRONMENT

JPRS-20011

N64-11319

GLASS
GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION
DOSE MITHIN TISSUE
UR-651
N64-31059

GLAUCOMA

AEROMEDICAL PROBLEM OF DETECTING AND HANDLING OF
PATIENTS WITH GLAUCOMA, USING TONOMETRIC
TECHNIQUES

A64-10264

GLAUCCMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL A64-80506

GLOBULIN S FIBRINOGEN S GAMMA GLOBULIN

GLUCOSE
EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS
RELATED TO GLUCOSE UTILIZATION A64-80732

VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS -PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE ASR-3 N64-30570

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF

TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS SAM-TDR-64-57 N64-32981

GLYCERINE
INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION
OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863

GLYCOGEN

CF CELLULOSE

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER
IONIZING RADIATION
JPRS-18479

N64-10769

GLYCOLYSIS
HYPOTHERMIC EFFECT ON GLYCOLYSIS AND OXYGEN
CONSUMPTION IN DOG KIDNEY
A64-80569

GNOTOBIOTICS
GNOTOBIOTIC TECHNIQUES DEVELOPED TO PROVIDE HIGH
ORDER OF STERILITY FOR FABRICATION OF STERILE
SPACECRAFT
A64-24983

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL CORTEX IN GOAT A64-81226

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077 N64-138

GONIOMETER
HEAD MOTION OF ADULT MALES MEASURED WITH HEAD
GONIOMETER
A64-81130

GRADIENT
SA TEMPERATURE GRADIENT
GRADIENT LOAD EFFECT ON HUMAN DUE TO
ACCELERATION STRESS DURING FLIGHT

A64-81059

GRAPH
SA OSCILLOGRAPH
VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION
OF GRAPHS
N64-22868

GRAVITATIONAL EFFECT
SA LUNAR GRAVITATIONAL EFFECT
CF WEIGHTLESSNESS
INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION
FOR MANNED SPACE FLIGHT
A64-10628

RADIAL ACCELERATION EFFECT ON POSITION SENSE,
CONSIDERING PSYCHIC FUNCTIONS AND OCULOGRAVIC
PHENOMENON A64-22063

BIOLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAYITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B CELLS A64-22813

SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD STRENGTHS A64-22818

INCREASED AND DECREASED GRAVITY EFFECTS ON RATS SUBJECTED TO PROLONGED CENTRIFUGATION

A64-24163

EFFECTS OF GRAVITY ON CENTRAL NERVOUS SYSTEM,
SPECIFICALLY EFFECTS OF ACCELERATION AND VIBRATION
A64-24970

THORACIC AND ABDOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-80997

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING DXYGEN JPRS-21984 N64-10388

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

N64-11523

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY N64-11709

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS N64-17738

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES NASA-CR-53302

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

GRAVITATIONAL EFFECT ON CUPULA DISPLACEMENT NASA-CR-56791 N64-27891

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND **ULTRASTRUCTURE** N64-33453

GRAVITATIONAL FIELD STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED REAL REPORT NO. 11701

MORPHCLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862

CONVECTION IN LCW INTENSITY GRAVITATIONAL FIELDS, AND SIMULATION WITH SIMILAR DENSITY LIQUIDS N64-15212

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

CRAVITY

SA ARTIFICIAL GRAVITY GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN E. COLI B A64-80362

ROLE OF GRAVITY AND BODY POSITION IN SPATIAL A64-80691

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION
AND GRAVITY

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT NASA-TN-D-2176

MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-2 N64-23770

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649

GRAVITY CENTER LOCATION OF CENTER OF GRAVITY IN HUMAN BODY

N64-24340

GRID GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL RADIOGRAPHY N64-23275

GROUND S GROUND STATION GROUND CREW ACCUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR RELATION TO ASSESSMENT OF HEARING LOSS AND OCCUPATIONAL DEAFNESS

AIRLINE FLIGHT SURGEON DUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

NEUROLOGICAL ABNORMALITIES IN CIVILIAN PILCTS AND AIR TRAFFIC PERSONNEL REQUIRING MEDICAL CERTIFICATION **A64-80836**

PROPOSED UNIVERSAL SYMBOL TO WARN AVIATION PERSONNEL OF ADVERSE DRUG EFFECTS

A64-80843

A64-80263

TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICO-LEGAL ASPECTS A64-81160

GROUND SPEED S VELOCITY

GROUND STATION

TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS MAINTAINING GROUND STATION EQUIPMENT ND-64-36

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE ND-64-37 N64-21373

GROUP BEHAVIOR MEASUREMENT OF EMOTIONAL REACTIONS, INDIVIDUAL PERFORMANCE AND GROUP EFFECTIVENESS OF SUBJECTS ENGENDERED BY ISOLATION CONFINEMENT AND ENVIRONMENTAL STRESS IN THE ANTARCTIC

464-13515

RISK-TAKING BEHAVIOR OF INDIVIDUALS AND GROUPS RELATED TO CERTAIN PERSONALITY TRAITS

A64-80211

SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE A64-80677

CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO CONFINED GROUPS WITH AND WITHOUT REFERENCE TO CLOCK TIME A64-80747

LEADERSHIP AS RELATED TO PSYCHOPHYSIOLOGICAL ACTIVATION OF GROUP MEMBERS DURING CONFINEMENT A64-81205

HUMAN GROUP PERFORMANCE DURING CONFINEMENT ER-6024 N64-15747

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION FTD-TT-64-260/1

GROUP THEORY GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/18284 N64-1 N64-12384

GROWTH

SA BIOTIN GROUTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS AFFECTED BY CONFINEMENT AND EXERCISE A64-80067

GROWTH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY A64-80684

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY CHLORELLA AND OTHER ALGAE USED IN CLOSED ECOLOGICAL SYSTEMS AS RELATED TO RECYCLING TIME OF GROWTH A64-80784

PHOTOSYNTHESIS AND FLUORESCENCE DURING VARIOUS STAGES OF CELL GROWTH IN SYNCHRONIZED CULTURES OF CHLORELLA PYRENOIDOSA A64-8080 A64-80805

FLUORESCENCE OF CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO VARYING CONCENTRATIONS OF PLASMOLYTICS AT DIFFERENT STAGES OF CELL

DEVELOPMENT

A64-80806

EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA A64-80866

INHIBITION OF GROWTH OF CHLORELLA VULGARIS BY A64-80901 ORGANIC PEROXICES

TEMPERATURE MAINTENANCE, CARBON DIOXIDE AVAILABILITY, NUTRIENT SUPPLY, AND CONSISTENT LIGHTING DILUTION DEVICE FOR CONTINUOUS CHLORELLA A64-81050 CULTURE

IRCN AS GROWTH FACTOR OF ALGAE, CHLORELLA RYRENGIDOSA, AND CHICK 82 A64-81081

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS N64-18773

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

N64-27513

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649

GUANETHIDINE

DIURNAL VARIATION IN PLASMA VOLUME AND HEMOGLOBIN CONCENTRATION OF NORMAL AND HYPERTENSIVE SUBJECTS TREATED WITH GUANETHIDINE OR OTHER DRUGS

GUANINE

FORMATION OF GUANINE DURING THERMAL POLYMERIZATION A64-16287 OF AMINO ACIDS

GUIDANCE

NAVIGATION

- NAVIGATION AND GUIDANCE
- TERMINAL GUIDANCE

IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE AND CONTAINMENT A64-14002

NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANOXIA IN GUINEA PIGS

ANCXIA VARIOUSLY INDUCED AND BRAIN DAMAGE IN A64-80219

MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS EVOKED BY LOUD NOISE IN GUINEA PIGS

A64-80367

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

TRIGLYCERIDE CONCENTRATION IN MYOCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN A64-80910

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO N64-13163

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837

EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-249!

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-22755

GUM

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY SAM-TOR-64-4

N64-17963

GUSTATORY PERCEPTION RELATIONSHIPS BETWEEN FOOC DEPRIVATION DURATION, BLOOD SUGAR LEVEL, AND MEAL COMPOSITION AND TASTE SENSITIVITY

GYNECOLOGY GYNECOLOGICAL PROBLEMS AND STRESS IN AVIATION AND A64-80521 SPACE MEDICINE - REVIEW

GYRATION S ROTATION

Н

HABITABILITY CF SHELTER PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN A64-80340

SELECTIVE ATTENTION IN MAN - BEHAVIORAL RESEARCH A64-80376

HABITUATION TO ROTATION RESULTING IN CHANGES IN PRIMARY, SECONDARY, AND CALORIC NYSTAGHUS

HALIDE

S BROWIDE S CHLORIDE

HALL EFFECT NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP A64-80535

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM REPT -- 63-27

HALLUCINATION SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL SENSATIONS IN PERCEPTUAL ISOLATION

A64-80510

VISUAL HALLUCINATIONS DURING SENSORY DEPRIVATION - PROBLEM OF CRITERIA

A64-80679

PERCEPTUAL ISCLATION - ANALYSIS OF VARIABLES INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY A64-80897 SENSATIONS

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS DURING SENSORY DEPRIVATION A64-81 A64-81212

HALLUCINATIONS AS FUNCTION OF SUSTAINED SENSORY DEPRIVATION AND SOCIAL ISOLATION N64-25127 AD-439431

HALLUCINOGEN DISORIENTATION INDUCED BY HALLUCINOGENIC DRUGS IN A64-14000 MACACA NEMESTRINA

SPATIAL ORIENTATION DURING SPACE TRAVEL AND USE OF HALLUCINGGENS TO TRAIN ASTRONAUTS TO PERFORM UNDER CONDITIONS OF DISORIENTATION A64-81325

HALOGEN

CHLORINE

FLUORINE

IODINE

HAMSTER ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN COLD EXPOSURE AND HIBERNATION

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER

SLEEP-WAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF

N64-22728

SUBJECT INDEX HAMSTER 464-81186 HANDS COK ORGAN SYSTEM RESPONSE AND ADAPTATION TO ENVIRONMENTAL CHANGES - HANDBOOK A64-80414 HANDBOOK ON TYPING NASA CONTRACTOR REPORTS FOR REPRODUCTION NASA-SP-7007 N64-28073 HANDLING QUALITY PILOTED SIMULATOR STUDIES OF LOW-SPEED LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC TRANSPORT AIRCRAFT N64-10909 PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS NASA-TN-D-2251 N64-179 N64-17993 HARMONIC ANALYSIS HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION NADC-AC-6406 N64-28696 HAZARD SA FLIGHT HAZARD SA METEOROID HAZARD SA NOISE HAZARD SA RADIATION HAZARD SA TOXICITY AND SAFETY HAZARD SAFETY FROM RADIATION, LASERS, & MERCURY VAPOR N64-14880 HAZARDS IN DXYGEN ENVIRONMENT N64-30727 VISIBILITY HEAD CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY A64-80195 NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG A64-80332 **NEGATIVE ACCELERATION IN RELATION TO ARTERIAL** CXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENOUS PRESSURE IN THE FOREHEAD

A64-80500

N64-13017

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS

AIAA PAPER-64-218 N64-23608

HEAD MOVEMENT

JOINT MOTION MEASURING METHODS AS APPLIED TO HEAD

HEAD MCTION OF ACULT MALES MEASURED WITH HEAD GONIOMETER 464-81130

HEALTH

CF HYGIENE CF SANITATION STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL

HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS LAMS-2959 N64-12113

SMCKING AND HEALTH OF HUMANS

RADICACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HAS1-142 N64-13329

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL AD-426228 N64-14324 HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH ENG. REPT.-11133

HEALTH PROTECTION DEVELOPMENTS IN USSR JPR 5-24 840

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY JPRS-25506 N64-28009

HEARING

CF DEAFNESS ELECTROSTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIOLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS

A64-25545

BINAURAL HEARING UNDER INFLUENCE OF INTERFERING NOISE - CONTRIBUTION TO CENTRAL NERVOUS PROCESSING OF ACQUSTIC INFORMATION

A64-80363

AUDIOMETRIC INVESTIGATION OF HEARING LOSSES SUSTAINED THROUGHOUT TEN YEARS OF NOISE EXPOSURE A64-80599

VISUAL AND AUDITORY STIMULI EFFECTS ON GASTROINTESTINAL MOTILITY A64-80613

INTERACTION OF FORWARD AND BACKWARD MASKING IN LISTENING TO TONAL PULSE A64-80642

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT A64-80724

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-80834

HEARING PHENOMENA WITH EXPOSURE TO ALTERNATING ELECTROSTATIC FIELD A64-80919

AUDITORY ADAPTATION FOR PURE TONES COMPARED AT THRESHOLD AND SUPRATHRESHOLD LEVELS FOR CLINICAL A64-80955

THRESHOLD OF DISTERTION EXPLORED FOR DETECTION OF SUSCEPTIBILITY TO ACOUSTIC TRAUMA

TEMPORARY THRESHOLD SHIFT AS FUNCTION OF FREQUENCY OF TEST TONE

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN **HEARING PURE TONES** CARI-63-19 N64-14410

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE **PROCEDURES** CAR I-63-17 N64-14411

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SCNIC FATIGUE AD-432086 N64-21840

HEARING LOSS

CF DEAFNESS PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING CHARACTERISTICS AND EFFECTS OF AERONAUTICAL NOISE

DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT A64-13520

DIAGNOSTIC USE OF HEARING TESTS

A64-80004

HEARING LOSS DETERMINED BY MODIFIED DOERFLER-STEWART TEST A64-80062

ACOUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR

RELATION TO ASSESSMENT OF HEARING LOSS AND A64-80263 OCCUPATIONAL DEAFNESS

NOISE INDUCED DEAFNESS IN CAT

A64-80308

AIRCRAFT NOISE AT AIRPORTS - EFFECT ON NEARBY COMMUNITIES AND ON WORKING ENVIRONMENT OF AIRPORT A64-80369

MONAURAL ADAPTATION TO SOUND AND EFFECT OF NOISE EXPOSURE IN CONTRALATERAL EAR A64-80372

PRCTECTIVE AND PREVENTIVE ASPECTS IN HEARING LOSS DUE TO HIGH INTENSITY NOISE EXPOSURE IN MILITARY A64-80568

TEMPORARY HEARING LOSS FOLLOWING EXPOSURE TO BRONDUNCED SINGLE FREQUENCY BROADBAND NOISE A64-80649

PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH SEXES BY NOISE EXPOSURE AND AGING A64-80656

HEARING LOSS INDUCED BY BLAST INJURY AND BY LONG TERM NOISE EXPOSURE

AUDITORY RESPONSE TO REPEATED EXPOSURE TO HIGH A64-80668 INTENSITY SOUND

NOISE - PHYSICAL CHARACTERISTICS AND AUDITORY AND A64-81228 NONAUDITORY EFFECT

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425C85 N64-13615

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY N64-32375

HEART

CF BLOCD ELECTRICAL ACTIVITY IN HUMAN SKELETAL MUSCLES, SKIN AND HEART INVESTIGATED TO DETERMINE ACTION POTENTIAL OF MUSCLE GROUPS A64-24 A64-24825

ADRENCCORTICOTROFIN AND ADENOSINE TRIPHOSPHATE EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS 464-80606

MYCCARCIAL TENSION IN RAT AS RELATED TO PRESSURE OF DXYGEN AND DURATION OF EXPOSURE

464-80813

TRIGLYCERICE CONCENTRATION IN MYOCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN GUINEA PIG 864-80910

RACIATION CAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY N64-10453 JPRS-18045

CARDIAC ARREST & RESUSCITATION N64-11225 JPRS-22010

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS JPRS-22012

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM N64-11704 SPACECRAFT

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE N64-11773 SAM-TER-63-69

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION JPRS-22022 N64-1288 N64-12886

X-RAY EFFECT ON HAMMALIAN HEART MUSCLE

N64-12887

LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF

GROUND SQUIRRELS AAL-TDR-63-4

N64-13630

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE N64-15745 SAM-TDR-63-99

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION SAM-TDR-64-10

DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS RM-4138-NIH

NORMAL VARIATIONS OF VECTORCARDIDGRAM COMPONENTS IN DOG. CAT. AND RABBIT JPRS-25599

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART OUTPUT SAM-TDR-64-23

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF N64-30392

HEART DISEASE SA FIBRILLATION ELECTROCARDIOGRAM IN SINUS TACHYCARDIA AND AURICULAR HYPERTROPHY A64-80024

AIR TRANSPORTATION OF PATIENTS WITH CONGENITAL A64-80029 HEART DISEASE

LEFT BUNDLE BRANCH BLOCK IN FLYING PERSONNEL A64-80172

CARDIOVASCULAR DISEASE AND DISORDER FOUND IN MILITARY AND CIVILIAN PILOTS INVOLVED IN AIRCRAFT A64-80223

ELECTROCARDIOGRAPHIC CHANGES DURING WORK AND PROLONGED EFFORT A64-80228

MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE A64-80660

CORONARY DISTURBANCES AND FLYING AS RELATED TO A64-80769 PILOT SELECTION EXAMINATIONS

AIR TRANSPORTATION OF CARDIAC PATIENTS

A64-80775 A64-80777

EXERCISE TEST TO DEMONSTRATE CORONARY INSUFFICIENCY

HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH

AS RELATED TO CARDIOVASCULAR DISEASE

CARDIAC OUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990

HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA A64-81077

CARCIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPOXIA - METHOD DEVELOPED FOR FLIGHT A64-81233 FITNESS EXAMINATION

ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART DISEASE JPRS-24083

METHOD OF TREATMENT OF AURICULAR FIBRILLATION NASA-TT-F-8555

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE N64-29995 REPT.-9

HEART FUNCTION CF MUSCULAR FUNCTION TIMING AND WAVEFORM VARIATIONS OF VIBROCARDIOGRAMS

FROM MULTIPLE POSITIONS ON PRECORDIUM

A64-22816

A64-80319

CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABOONS DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND
EXERCISE A64-B0087

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED BY MUSCULAR ACTIVITY IN NORMAL AND WARM ENVIRONMENTS A64~80112

CARDIOVASCULAR PHYSIOLOGY UNDER HYPOTHERMIA A64-80162

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY

A64-80195

ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD CIRCULATION AND HEART FUNCTION IN MAN

PULMONARY CIRCULATION AND CARDIAC OUTPUT OF RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE HYPOXIA A64-80338

HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART A64-80408

CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRACED TREACMILL EXERCISE

CARDIAC CUTPUT DURING MUSCULAR EXERCISE AS A FEET IN THE HIMALAYAS

ACCUMATIZATION AT 19,000
FEET IN THE HIMALAYAS A64-80517

SPECTRCPHOTOMETRIC DETERMINATION OF CARDIAC OUTPUT BY MEANS OF NEW DYE, PATENT BLUE A

A64-80540

ATRIAL FIBRILLATION IN FLYING PERSONNEL

A64-80659

BASE-LINE EFFECTS ON RESPONSE ON STROKE VOLUME TO LEG EXERCISE IN THE SUPINE POSITION

A64-80736

VENTILATORY EXCHANGE RATIO DURING EXERCISE AS RELATED TO CARDIOPULHONARY FUNCTION AND **METABOLIC ACIDOSIS** A64-80737

DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

ADRENALIN EFFECT ON RELATIONSHIP BETWEEN DXYGEN NEED AND SUPPLY IN HEART IN DOG

A64-81210

SEISMOCARCIOGRAM CONSTRUCTION FOR CARDIDVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT N64-11706

TESTING HEART FUNCTION BY ANALYSIS OF ITS PRECORDIAL VIBRATION SPECTRUM NASA-CR-53818 N64-19313

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND NASA-CR-53501 N64-20597

SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC **FUNCTIONS** JPRS-25015 N64-21482

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND FTD-TT-63-1193/16264 N64-25458

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS JPRS-26103 N64-28431

HEART RATE CARDIAC RESPONSES OF GUINEA PIGS AND RABBITS TO HIGH OXYGEN EXPOSURE UNDER PRESSURE AND STRESS LOADINGS A64-23767 DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM USING ANALOG COMPUTER TO SIMULATE PHYSIOLOGICAL RESPONSE A64-25320

STRONG MAGNETIC FIELDS EFFECT ON ELECTRO-CARDIOGRAMS OF SQUIRREL MONKEYS /SAIMIRI SCIUREUS/, NOTING HEART RATE A64-27598

HEART RATE RESPONSE TO VALSALVA MANEUVER AS TEST OF CIRCULATORY INTEGRITY A64-80008

DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF CARDIAC FREQUENCY A64-80023

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO **ACCELERATION** A64-80031

OXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL ENVIRONMENTS 464-80111

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED BY MUSCULAR ACTIVITY IN NORMAL AND WARM **ENVIRONMENTS** A64-80112

INCREASED HEART RATE AFFECTING PSYCHOMOTOR A64-80138

ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER EXERCISE A64-80207

HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL RESPONSES DURING AND AFTER FLIGHT A64-80333

LOAD EFFECT ON DXYGEN CONSUMPTION AND HEART RATE DURING LIGHT MUSCULAR WORK

STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES A64-80361

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO DXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

AUTONOMIC LEVELS AND LABILITY - PERFORMANCE TIME ON PERCEPTUAL AND SENSORIMOTOR TASKS

A64-80585

A64-80342

SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE A64-80677

SENSORY DEPRIVATION AND LYSERGIC ACID DIETHYLAMIDE /LSD/ EFFECT-PHYSICLOGICAL CONSIDERATIONS A64-80678

PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE MEASUREMENT OF STRESS INTENSITY

A64-80711

COGNITIVE STRUCTURING, FIELD DEPENDENCE-INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION A64-80727

HEART RATE RESPONSE OF RAT TO AUDITORY STIMULI OF VARYING DURATION A64-80811

HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH AS RELATED TO CARDIOVASCULAR DISEASE

A64-80821

VESTIBULAR AND CARDIOVASCULAR RESPONSES TO WEIGHTLESSNESS AND ADAPTATION TO INCREASED G FORCES AS RELATED TO PULSE, BLOOD PRESSURE, RESPIRATION, AND ELECTROCARDIOGRAM

A64-80845

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO 0XYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-8 A64-80883

HEART RATE, ARTERIAL LACTATE CONCENTRATION, OXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN A64-80984

HEART RATE BEFORE, DURING AND AFTER STRENUOUS

PHYSICAL EXERCISE IN FEMALE MEASURED WITH A64-80992

HEART RATE AND OXYGEN CONSUMPTION OF HEALTHY
HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION
FROM REST TO EXERCISE IN RELATION TO EXERCISE A64-81 CO7 TOLERANCE

PHYSICLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81C14

CONDITIONED HEART RESPONSE IN HUMAN IN RELATION TO CONTROLLED AND UNCONTROLLED RESPIRATION A64-81041

COMPARATIVE BALLISTOCARDIOGRAPHIC INVESTIGATIONS OF REACTION TO COLORED LIGHT STIMULI IN MAN

HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING A64-81093 PHYSICAL EXERCISE

SLEEP CEPRIVATION EFFECT ON HEART RATE AND A64-81114 PERFORMANCE IN MAN

TELEMETERED HEART RECORD FROM GYMNASTS DURING ROPE A64-81194

ELECTRCENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE RESPIRATION, AND GALVANIC SKIN RESPONSE DURING SLEEP AFTER LONG WAKEFULNESS PERIOD A64-812C4

CXYGEN CONSUMPTION AND RELATION TO HEART RATE

CURING EXERCISE AT HIGH ALTITUDE

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING A64-81319 IN COLD WATER

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETECRITE TRANSDUCER AS BALLISTOCARDIOGRAPH N64-19015

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & CTHER PHYSIOLOGICAL CHANGES N64-314

HEAT

CF DRY HEAT CF HEAT REGULATION CF HEAT RESISTANCE

CF HEAT TOLERANCE CF HEAT TRANSFER

CF THERMAL NOISE BODY VCLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION A64-81184

HEAT ACCLIMATIZATION MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED BODY TEMPERATURE A64-8027 A64-80272

NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

THERMAL ENVIRONMENT AND PHYSIOLOGICAL LIMITATIONS AS RELATED TO NEED FOR HEAT ACCLIMATIZATION IN A64-80663 ASTRONAUT TRAINING

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

ACCLIMATIZATION TO HEAT DURING EXERCISE IN PHYSICALLY FIT SUBJECTS A64-81116

HEAT EFFECT HEAT EFFECT AND AROUSAL EFFECT ON SWEATING AND ELECTRODERMAL RESPONSE OF HAND AND CHEST A64-12937

THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT N64-12216 AMRL-TDR-63-86

HEAT EXCHANGER PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT LOOPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL A64-27606

HUMAN SKIN TEMPERATURE AND NONEVAPORATIVE HEAT A64-80163 EXCHANGE WITH THE ENVIRONMENT

HEAT REGULATION CF THERMOREGULATION TEMPERATURE REGULATION IN EXERCISE AT DIFFERENT A64-80083 CLIMATIC CONDITIONS

HEAT RESISTANCE RELATIONSHIP BETWEEN BICCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS JPRS-23735

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE N64-22729 OF ORGANISMS

HEAT SHIELD S THERMAL PROTECTION

HEAT TOLERANCE HUMAN THERMAL BALANCE, HEAT TOLERANCE AND PROTECTION IN ARTIFICIAL SPACECRAFT ENVIRONMENT A64-24396

DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM USING ANALCG COMPUTER TO SIMULATE PHYSIOLOGICAL RESPONSE

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED, APPLYING CRITERION BASED ON PULSE BEAT AND BODY A64-27027 TEMPERATURE

HEAT REGULATION, HEAT TCLERANCE, AND THERMAL PROTECTION IN MANNED SPACE FLIGHT

A64-80480

RADIORESISTANCE OF THERMOTOLERANT STRAINS OF N64-13696 ESCHERICHIA BACTERIA

HUMAN AND ANIMAL TOLERANCE OF HEAT N64-16383 ETD-TT-63-650/184

HEAT TRANSFER CF THERMAL RACIATION
PHYSIOLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL A64-24613 **ENVIRONMENT**

HEATING CF RADIANT HEATING
CF RESISTANCE HEATING HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC A64-80080 **EXERCISE**

TESTS OF ELECTRICALLY HEATED FLIGHT CLOTHING FPRC/MEMO-200 N64-25844

HEAVY ION RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15 N64-15217

HEAVY WATER S DEUTERIUM OXIDE

HEI TOOPTER L-SHAPE TRAJECTORY IN EMERGENCY ESCAPE SYSTEM IN A64-80840 ARMY HELICOPTERS

HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS RELATED TO PROTECTION UNDER FIRST GENEVA A64-81049 CONVENTION

HELICOPTER PERFORMANCE PILOTAGE OF HELICOPTERS WITH REACTION CONTROL N64-13499 HELIUM

CF RARE GAS
HIGHER HEAT CONDUCTIVITY RESULTING FROM
SUBSTITUTION OF HELIUM FOR ATMOSPHERIC NITROGEN IN
SPACESHIP CABINS
A64-21118

DECCMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES
CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN
A64-80499

METABCLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO INCUBATED IN HELIUM-DXYGEN ATMOSPHERE

A64-80852

BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION A64-81184

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCED PRESSURE A64-81323

PHYSICLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES CN CELLULAR SYSTEMS AD-600641 N64-2592

EFFECT CF PROLONGED BREATHING CF HELIUM-DXYGEN ON SPEECH INTELLIGIBILITY AD-602545 N64-28298

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES

SAM-TDR-64-43 N64-31051

HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING PILOTS LINE OF SIGHT AS HEAD ROTATES

A64-24832

COMPARISON OF METHODS FOR EVALUATING PROTECTIVE HEADGEAR A64-81322

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH ARL-TDR-64-3 N64-21311

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION MR-64-1

HELMHOLTZ S THEOREM
SLANT PERCEPTION - GESTALT, HELMHOLTZ, AND GIBSON
THEORIES
A64-81159

HEMATOCRIT
HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC OXYGEN
A64-80154

HEMATOCRIT RATIO
HEMATOCRIT RATIO AND SURVIVAL OF UNACCLIMATIZED
DOGS AT SIMULATED ALTITUDE
A64-80103

HEMATOLOGY

CF BLOOD

RADIATION EFFECTS ON BLOOD TISSUE DURING SPACE

X-RADIATION EFFECTS ON BLOOD CELL CYTOPLASM,
NOTING INCREASE IN DOSAGE AND DAMAGE WITH DURATION
OF EXPOSURE
A64-11438

BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS
AIAA PAPER 64-217
A64-18853

HICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION
A64-25543

HIGH ALTITUDE EFFECT ON HEMATOLOGICAL DATA IN MOUNTAIN SHEEP AND GOATS A64-81269

HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES

JPRS-21405

N64-10002

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO

INDRGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628 N64-10119

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD

N64-11609

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077 N64-13827

HEMATCLOGIC CHANGES FOLLOWING TOOTH EXTRACTION
SAM-TR-63-82
N64-30498

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT CF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOCD AAL-TOR-63-3 N64-31934

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY DVL-225

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780

HEMATOPOIETIC SYSTEM
INCREASED DXYGEN PARTIAL PRESSURE EFFECT ON
HEMATOPOIESIS
A64-80625

HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY FOLIC ACID AND CYSTEINE A64-8075

HEMOPOIETIC FACTOR IN BLOOD PLASMA OF RAT
STIMULATED BY CONTINUOUS DXYGEN DEPRIVATION

A64-80751

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPOXIA IN ENVIRONMENTAL CHAMBER

ABDOMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING ORGANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION

A64-80824

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC
SYSTEM IN DOG A64-80830

CENTIMETER WAVE RADIATION OF VARYING INTENSITY AND EFFECT ON PERIPHERAL BLOOD AND HEMATOPGIETIC SYSTEM A64-81211

HYPOXIA AND EFFECT ON HEMATOPOIESIS IN MAN AND ANIMAL A64-81290

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN JPRS-18960 N64-11121

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679

LUMINESCENT MICROSCOPY OF HEMATCPOIETIC SYSTEMS USING IONIZING RADIATION JPRS-22915 N64-141

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY

N64-15202

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATOPOIETIC SYSTEM N64-25310

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT JPRS-25251 N64-26055

A64-11437

CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM AD-602135

N64-29673

RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE JPRS-26921

HEMATURIA S URINE

HEMODYNAMIC RESPONSE

HYPODYNAMIC STATE INFLUENCE ON HEMODYNAMICS OF ANESTHETIZED DOG DURING SIMULATED WEIGHTLESSNESS A64-27605

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DOG AS RELATED TO PH AND CARBON A64-81009 DICKICE TENSION

ADAPTATION TO HIGH ALTITUDE AND EFFECT ON HEMODYNAMICS OF HUMAN IN ASCENT TO HIGHER LEVELS A64-81283

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS N64-14133 JPRS-22914

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION N64-16574 CART-63-22

HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION FTD-TT-64-32/182

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS NASA-CR-56348

HEMOGLOBIN

CE PROTEIN HEMOGLOBIN AT HIGH ALTITUDE AS RELATED TO AGE A64-80045

OXYGEN DISSOCIATION CURVES OF HEMOGLOBIN IN BLCOD SUBJECTED TO MATHEMATICAL ANALYSIS

A64-80127

BLCOD VOLUME AND HEMOGLOBIN CONCENTRATION AT ALTITUDES ABOVE 18,000 FEET

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPOXIA IN ENVIRONMENTAL CHAMBER

A64-80759

ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS

DIURNAL VARIATION IN PLASMA VOLUME AND HEMOGLOBIN CONCENTRATION OF NORMAL AND HYPERTENSIVE SUBJECTS TREATED WITH GUANETHIDINE OR OTHER DRUGS 464-81095

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS N64-10433 REPT -- 63-2

ENZYME ACTIVATION DETERMINATION OF OXYGEN DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME FORMATION N64-15043

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS N64-15214

ANTIBODIES TO HUMAN AL HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS

N64-25491

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLCCD PLASMA NASA-TT-F-9125 N64-33401 HEMOLYSIS VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE OXYGEN EXPOSURE

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER A64-80920 HIGH PRESSURE

HEMORRHAGE

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENOUS PRESSURE IN THE FOREHEAD

A64-80500

SURGERY FOR MASSIVE UPPER GASTROINTESTINAL HEMORRHAGE IN FLYING PERSONNEL A64-80869

EYE MOTILITY EXAMINATION BY OBJECTIVE TECHNIQUES TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS - REVIEW OF EXPERIMENTAL STUDIES N64-17924 AD-433129

HETEROTROPIA

EYE MOTILITY EXAMINATION BY OBJECTIVE TECHNIQUES TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION A64-13995

HEXOKINASE ADRENOCORTICOTROPIN AND ADENOSINE TRIPHOSPHATE
EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES
AND HEART DURING HYPOXIA IN RATS

ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN DOGS AND RATS

ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN COLD EXPOSURE AND HIBERNATION A64-800

ADAPTIVE MECHANISMS OF HIBERNATORS RESPONDING TO A64-80424 LOW TEMPERATURE

RELATIONSHIP OF ELECTRICAL AND METABOLIC ACTIVITY IN OLFACTORY CAPSULE OF HIBERNATING HEDGEHOG A64-80935

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY SID-63-354 N64-11821

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-1294 N64-12943

HIBERNATION IN MAMMALS AND BIRDS N64-13661 AAI -TDR-63-3

ARTIFICIAL HIBERNATION AND SPACE BIOLOGY N64-23756

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL AAL-TDR-63-25 N64-31935

BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION N64-31936 AAL-TDR-63-34

HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK COMMITMENT STRESS A64-12978

ADRENOCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER A64-12990 STRESS CONDITIONS

BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS DURING HIGH ALTITUDE EXPOSURE A64-13754

SYMPOSIUM ON PHYSIOLOGICAL EFFECTS OF HIGH ALTITUDE AT INTERLAKEN, SMITZERLAND IN SEPTEMBER A64-23253 1962

EDEMA AT HIGH ALTITUDE IN RELATION TO

CARDIOVASCULAR PHYSIOLOGY

A64-80276

CARDIOVASCULAR SYSTEM IN CHILDREN FROM HIGH ALTITUDE A64-80311

CARDICVASCULAR RESPONSES TO HEAT, COLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE A64-80418

THERMOREGULATORY SYSTEM OF HOMEOTHERMS AND POIKILCTHERMS IN COLD AND HOT ENVIRONMENTS

A64-80419

ADAPTATION TO LOW PRESSURE - RESEARCH FACILITIES AND TECHNIQUES A64-80423

PARTIAL PRESSURE CHANGES OF DXYGEN AND CARBON DIOXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN

A64-80431

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO CXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN UNANESTHETIZED DOGS AT 21,000 FEET

A64-80519
COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES A64-80614

MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE
A64-80660

TIME SPENT AT ALTITUDE, AGE, AND WEIGHT AS RELATED TO DECOMPRESSION SICKNESS A64-80950

PRIMARY CEREBRAL CORTEX POTENTIALS EVOKED BY ACCUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING HYPOXIA IN CAT A64-81083

OXYGEN CONSUMPTION AND RELATION TO HEART RATE DURING EXERCISE AT HIGH ALTITUDE

A64-81231

PHYSICAL AND PHYSIOLOGICAL CHARACTERISTICS OF CHILDREN LIVING AT HIGH ALTITUDE

A64-81248

TCLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE OF X-RAYS A64-81267

PHYSICLOGICAL MECHANISM OF ADAPTATION TO HIGH ALTITUDE A64-81274

NERVOUS SYSTEM CHANGES OF HUMAN ORGANISM AT 2000 METER ALTITUDE A64-81275

HIGH ALTITUDE EFFECT ON OXYGENATING PROCESS IN ATHLETES A64-81276

NEUROHUMCRAL CHANGES IN BLOOD OF DOG AND DOMESTIC FOWL AT HIGH ALTITUDE A64-81279

INHIBITOR OF THYROID AND EFFECT ON ADAPTATION TO HIGH ALTITUDE IN DOGS A64-B1280

RIBOFLAVIN, VITAMIN E, BIOTIN, FOLIC ACID AND EFFECT ON ADRENAL CORTEX FUNCTION AT HIGH ALTITUDE A64-81281

HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF PERIPHERAL BLOOD AND HYPOPHYSIS-ADRENAL SYSTEM IN MAMMALS AND MAN A64-B1282

ADAPTATION TO HIGH ALTITUDE AND EFFECT ON HEMODYNAMICS OF HUMAN IN ASCENT TO HIGHER LEVELS A64-81283

PHYSIOLOGY OF ADAPTATION IN HUMAN TO HIGH ALTITUDE

BLCOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

HUMAN PERFORMANCE DURING SINUSCIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT

N64-31512

HIGH ALTITUDE BREATHING
PULMONARY VENTILATION ADJUSTMENT TO HIGH ALTITUDE
EXERCISE
A64-22756

HIGH ALTITUDE EFFECTS IN MUSCULAR EXERCISE INCLUDING WORK RATE, DXYGEN INTAKE, VENTILATION AND HEART RATE A64-23257

LUNG DIFFUSION CAPACITY EFFECTS ON OXYGEN
CONSUMPTION AT HIGH ALTITUDES
A64-23258

HIGH ALTITUDE EFFECTS ON QUALITATIVE AND QUANTITATIVE CHANGES IN MANS WORK CAPACITY

A64-23259

HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED SUBJECTS A64-23260

CEREBROSPINAL FLUID EFFECTS ON HIGH ALTITUDE RESPIRATORY ACCLIMATIZATION OF MAN

A64-23261

PATHOGENESIS OF HIGH-ALTITUDE EMPHYSEMA WITH AND WITHOUT PRESSURE BREATHING A64-81158

HIGH ALTITUDE FLYING
TIME-TEMPERATURE RELATIONSHIP OF AIR COMPRESSORS
OF TURBOJET, TURBORAMJET, OR SUPERSONIC TRANSPORT
PROPULSION TO DEVELOP ADEQUATE TECHNIQUES OF OZONE
DESTRUCTION

A64-21181

HUMIDITY IN THE CABIN OF A DOUGLAS DC-8 AIRLINER DURING COMMERICAL FLIGHT A64-80025

ROYAL NAVAL HIGH-ALTITUDE SELECTION TEST AS MEASURE OF DECOMPRESSION SICKNESS SUSCEPTIBILITY A64-80225

MEDICAL SUPPORT AND TRAINING OF FLYING PERSONNEL IN HIGH ALTITUDE FLYING A64-80394

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL A64-80506

DZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT FPRC-1214 N64-25848

HUMAN PERFORMANCE DURING SINUSUIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

HIGH ALTITUDE PRESSURE
TCLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET
WEARING STANDARD OXYGEN MASK
A64-80268

HIGH ALTITUDE TESTING
HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING
PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK
COMMITMENT STRESS
A64-12978

BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS DURING HIGH ALTITUDE EXPOSURE A64-13754

CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE A64-80418

PARTIAL PRESSURE CHANGES OF DXYGEN AND CARBON DIDXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN A64-80431

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO OXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES A64-80614

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI

INCCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE A64-80616 AND AT SEA LEVEL

PRESSURE VOLUME RELATIONSHIPS AT 30,000 FEET ALTITUDE AND AT GROUND LEVEL WHILE BREATHING PURE A64-80630 OXYGEN

HIGH ALTITUDE PHYSIOLOGY IN RELATION TO ANAESTHESIA AND INHALATION THERAPY OF MOUNTAIN A64-80890 INHABITANT

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /19,000 FEET/ ELEVATION IN HIMALAYAS A64-80995

CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-8124 A64-81249

ADAPTATION AND PHYSIOLOGICAL RESPONSE OF HUMAN CRGANISM TO HYPOXIA AT HIGH ALTITUDE

A64-81259

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF OXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN A64-81263 PRESSURE CHAMBER

HIGH ALTITUDE EFFECT ON HEMATOLOGICAL DATA IN A64-81269 MOUNTAIN SHEEP AND GOATS

PHASES OF ADAPTATION PROCESS TO HIGH ALTITUDE A64-81273

HIGH ALTITUDE EFFECT ON SALIVARY SECRETION AND A64-81277 KIDNEY FUNCTION IN DOG

KICNEY FUNCTION AT HIGH ALTITUDE IN DOG

A64-81278

NORMAL VALUE OF BLOOD PRESSURE IN RESIDENTS OF A64-81284 KIRGIZIA MOUNTAINS

HYPOXIA AND EFFECT ON HEMATOPOIESIS IN MAN AND ANIMAL A64-81290

BLCOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY CEPE-1681

HIGH ENERGY PROPELLANT PROPELLANT

HIGH FREQUENCY STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS N64-32955 ON YEAST CELL REPRODUCTION

HIGH PRESSURE OXYGEN CHRONIC HIGH PRESSURE OXYGEN TOXICITY EFFECT ON A64-22058

VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE CXYGEN EXPOSURE A64-25546

CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE SULFATE IN RATS EXPOSED TO DXYGEN UNDER PRESSURE A64-80283

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO OXYGEN AT HIGH PRESSURE A64-80629

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL

RRESSURES ON MAN N64-12321

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE NADC-MA-6331 N64-27954

HIGH SPEED FLYING HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL RESPONSES DURING AND AFTER FLIGHT A64-80333 INJURIES SUSTAINED DURING SURVIVABLE SONIC EJECTION WITH FRENCH E. 96 AND E. 97 SEATS A64-80669

HIGH TEMPERATURE ENVIRONMENT CF THERMAL ENVIRONMENT ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED, APPLYING CRITERION BASED ON PULSE BEAT AND BODY A64-27027 TEMPERATURE

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE RELATED TO BODY POSITION IN RABBIT

A64-80040

TIME DISCRIMINATION RELATED TO BODY TEMPERATURE AND PULSE RATE IN HOT ENVIRONMENT A64-80064

CARDIOVASCULAR RESPONSE IN MAN TO HIGH AMBIENT A64-80135 TEMPERATURE AND HUMIDITY

NAUSEA AND VOMITING IN SUBJECTS EXPOSED TO VERTICAL MOTION AT WARM AND MODERATE TEMPERATURE A64-80153

BLOOD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION A64-80271

CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE A64-80418

CLIMATIC CHAMBERS FOR ADAPTATION RESEARCH A64-80422

THERMOREGULATORY RESPONSES OF MAN TO HOT DESERT

A64-80427 CONDITIONS ADAPTATION OF MAN TO HUMID HEAT IN TROPICS 464-80428

CORONARY CIRCULATION AND HEART METABOLISM IN MAN A64-80465 EXPOSED TO DRY HOT ENVIRONMENT

MINIMAL WATER REQUIREMENTS UNDER CONDITIONS OF HEAT AND PHYSICAL EXERCISE IN MAN A64-80549

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS A64-80551

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

HEAT(REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES A64-8069 A64-80697

MITOSIS AND CHLCROPHYLL CONTENT IN CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR SHORT AND PROLONGED PERIODS A64-80809

PHYSIOLOGICAL RESPONSES TO HIGH ENVIRONMENTAL TEMPERATURE AND HYPERTHERMIA A64-A64-80878

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

ACCLIMATIZATION TO HEAT DURING EXERCISE IN A64-81116 PHYSICALLY FIT SUBJECTS

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO HOT AND HUMID CONDITIONS A64-811 A64-81191

BLOOD CELL CHANGE IN ATHLETES DURING EXERCISE AND SAUNA BATH AND RELATION TO ADAPTATION IN SPORTS A64-81232

FACTORS CONCERNED IN TEMPERATURE REGULATION IN MAN A64-81294

HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES N64-10002 JPRS-21405

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS NASA-TT-F-9120 N64-333 N64-33399

HIGH TEMPERATURE PROPELLANT PROPELLANT

HIGH TEMPERATURE RESEARCH HIGH TEMPERATURE ENVIRONMENT

TESTS ON WHITE RATS TO INVESTIGATE RADIATION PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS INFLUENCED BY BIOGEN AMINES A64-27581

PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG DURING SURFACE HEATING A64-80874

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG NIJS-R-423 N64-21049

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLCCD HISTAMINE CONTENT AND CHOLINESTERASE
ACTIVITY IN HUMAN BODY
N64-N64-31540

HISTOLOGICAL STUDY

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS

EFFECT OF GAMMA RACIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS N64-10664

MORPHCLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM

N64-146C8

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL NASA-CR-55517

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION

N64-18084 HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER

ARL-TDR-64-1 N64-18650

HISTOLOGY

NOISE INDUCED DEAFNESS IN CAT

A64-80308

BACTERIAL, AND FISTCLOGICAL CHANGES OF RESPIRATORY MUCCUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD A64-80954

HISTOLOGICAL ANALYSIS OF LABYRINTH PIGMENTED GELLS - MELANIN CONTAINING MACROPHAGES

A64-80977

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764

PARACHUTING HISTORY

A64-80145

HISTORY OF ESCAPE SYSTEM DEVELOPMENT FOR AIR, SEA, AND SPACE USE A64-80198

HISTORY OF AIR RESCUE SERVICE AS RELATED TO CIVILIAN AND MILITARY PERSONNEL, EQUIPMENT RECOVERY, AND SPACE FLIGHT A64-80558

HISTORY OF DEVELOPMENT AND USES OF HUMAN CENTRIFUGE IN AEROSPACE MEDICINE

A64-80680

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

HISTORY OF BIODYNAMICS ARL-TDR-63-10

N64-25331

HOMEOSTASIS

CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATED TO COMPUTER DIAGNOSIS A64-8073 464-R0733

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS JPRS-21492 N64-10066

HORIZON

S HORIZON SENSING

HORIZON SENSING

CF ATTITUDE CONTROL EFFECT OF BODY POSITION, VISUAL REFERENCE CUES, AND TIME UPON JUDGEMENT OF VISUAL HORIZON NASA-CR-55618

HORMONE

CF ADRENOCORTICOTROPIN
CF BRADYKININ

CF INSULIN

ADRENOCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER STRESS CONDITIONS A64-12990

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF CCLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER A64-80991

EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE JPRS-22000 N64-10392

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS JPRS-19066 N64-11063

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBCLISM DURING DECOMPRESSION DVI -273

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA

PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC HORMONE IN RADIATION SICKNESS N64-12769

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM ARCH-20 N64-15398

EFFECT OF STRCNG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL RECRGANIZATION OF RAT ACRENAL GLAND

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR N64-32833

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD N64-33993

HORMONE METABOLISM

HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION, VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY A64-80115

URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-80200

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTERGID LEVELS

PROLONGED STARVATION EFFECT ON BLOOD PLASMA CONCENTRATION AND EXCRETION OF ADRENAL HORMONES A64-80767

LEUKOCYTE, CORTICOSTEROID, AND CATECHOLAMINE RESPONSE TO CORIOLIS ACCELERATION DURING

ZERO-GRAVITY PARABOLIC FLIGHT

464-80921

SECRETORY RATES OF ALDOSTERONE AND CORTISOL MEASURED BEFORE, DURING AND AFTER BED REST

A64-80922

HUGONIOT EQUATION OF STATE S LOW PRESSURE

ADRENOCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER A64-12990 STRESS CONDITIONS

HUMAN BIOCHEMICAL GENETICS

N64-32163

HUMAN BEHAVIOR
CF PERSONALITY

FINDINGS IN NEUROPHYSIOLOGY, PSYCHOLOGY AND INSTRUMENTATION THAT SUGGEST INNOVATIONS IN MONITORING OF ASTRONAUT BRAIN AAS PAPER 62-11 A64-11453

NEUROPHYSIOLOGICAL INFORMATION PROCESSING AS IT RELATES TO SENSORY COMMUNICATION

A64-12417

DATA FROM ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR STUDIES AND PERSONAL REPORTS ON EFFECTS OF ISCLATION, SENSORY DEPRIVATION AND EXTREME HAZARD

LOW LEVEL RADIATION EFFECTS ON INTEGRATED HUMAN BEHAVICR AND ORGAN SYSTEMS

HUMAN EYE MOVEMENT TRACKING SYSTEM FOR CONTROL PURPOSES A64-23105

PERCEPTUAL MOTOR REACTIONS AFTER ONE WEEK PERIOD OF PERCEPTUAL DEPRIVATION

SENSORY AND PERCEPTUAL DEPRIVATION EFFECTS ON BEHAVICRAL AND PHYSIOLOGICAL EFFECTS

A64-25432

SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN A64-25557 ELECTRCENCEPHALOGRAPHY

HUMAN BEHAVIOR UNDER STRESS-COMBAT EXPERIENCE A64-80017 LEADING TO SOCIAL PSYCHIATRY

SENSORY CEPRIVATION - HYPOTHESES OF MENTAL DETERICRATION AND MENTAL FACILITATION

A64-80346

SELECTIVE ATTENTION IN MAN - BEHAVIORAL RESEARCH 464-80376

VISUAL PERCEPTION STUDIES ANALYZED FOR GENERALIZATION TOWARD THEORY OF HUMAN PERCEPTION A64-80379

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL TN MAN

SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF EFFECTS ON HUMAN AND ANIMAL BEHAVIOR A64-80382

PHYSICLOGICAL RESPONSES ASSOCIATED WITH TIME

ESTIMATION IN HUMAN OPERANT SITUATION A64-808C1

BICCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR N64-10756 JPRS-18315

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR N64-10757 DURING SPACEFLIGHT

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT N64-11131

INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFERMATION PROCESSING TASKS AMRL-TCR-63-89

BEHAVICRAL TESTING IN SIMULATED SPACE CABIN

DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING NASA-TN-D-1973 N64-11548

BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK NASA-TN-D-1974 N64-11549

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABVRINTHINE FUNCTION
WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR

NADC-MA-6305

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR N64-16799 AMRL-TOR-63-118

SELECTION OF SPACE CREWS FOR EXTENDED JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA JPRS-23853

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALCGRAPHY N64-18581 AFCRL-63-364

PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL REFERRED FOR PSYCHIATRIC EVALUATION N64-18785 PRL-TDR-63-23

HUMAN BEHAVIOR - DISCRIMINATION OF PRIMARY AND SECONDARY VISUAL VIGILANCE TASKS N64-20318 AD-437334

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISCLATION FROM EXTERNAL STIMULI N64-21288 JPRS-24961

HUMAN ADAPTATION TO CHANGING ENVIRONMENTAL FACTORS DURING SPACE FLIGHT N64-22258 JPRS-20673

HUMAN BEHAVIOR IN FUNGUS EATER GAMES ESD-TDR-64-237

N64-22267

EMPIRICAL STUDY OF HUMAN BELIEFS ESD-TDR-64-238

N64-22567

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638

HUMAN BEHAVIOR

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS N64-25078

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION N64-25842 FPRC/MEMO-191

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE FPRC/MEMO-203 N64-26000

HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS N64-27094 AD-600319

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL N64-27095

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN N64-29871 NAVTRADEVCEN-1303-2

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES RADC-TDR-64-266

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE N64-31827 AMRL-TDR-64-63

TR-17

N64-21645

HUMAN BODY PHARMACOLOGY RESEARCH AND APPLICATIONS IN AEROSPACE MEDICINE, NOTING KREBS CYCLE AND METABOLIC ACTIVITY IN HUMAN BODY A64-11439 WATER RECOVERY AND HUMAN WASTE DISPOSAL SYSTEMS AUDITORY ORGANS IN MAN FOR EXTENDED SPACE MISSIONS A64-18624 DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE SAM-TDR-63-88 ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION AND IMPACT ON PILOT EFFICIENCY

A64-2702 A64-27026 DERMO-OPTICAL SENSE IN MAN JPRS-23068 TOLERANCE AND INJURY OF HUMAN BODY TO IMPACT A64-80320 MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES OF HUMAN BODY DUE TO ELASTICITY OF TISSUES 464-80939 MECHANISMS OF HUMAN BODY EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY AMRL-TDR-63-116 TEXTROOK JPRS-19278 N64-11066 ELECTRECARDIOGRAPHIC FUNCTIONS IN CLINICAL **POPULATION** MEDICINE OF HUMAN BODY ELECTRIC FIELDS JPRS-19030 N64-11123 MICROWAVE IRRADIATION STRESS ON HUMAN BODY BY ACCELERATION AND JPRS-23287 **WEIGHTLESSNESS** JPRS-20345 N64-11137 FTD-TT-62-1609/1 ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION JPRS-18938 N64-11317 HUMAN BODY TO RADIO WAVES BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS SAM-TDR-63-80 ON HUMAN BODY AT HIGH ALTITUDES N64-11700 SYSTEMS IN HUMAN BODY AMRL-TDR-63-105 GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY INDIVIDUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES NASA-SP-5006 FOR TRANSFUSION JPRS-22401 N64-11959 GAS EXCHANGE IN LUNGS OF MAN IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN JPRS-22520 EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF MAN AMRL-TCR-63-85 BLCCD THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT AMRL-TDR-63-86 OXYGEN STORAGE IN HUMAN BODY VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EDSINOPHILE COUNT IN JPRS-24183 BLCOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753 ORGANS OF HUMAN BCDY HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO NASA-TT-F-203 RADIATION N64-12784 SECOND ANNUAL REPORT OF BRAIN RESEARCH INSTITUTE INCLUDING BIBLIOGRAPHY OF PUBLICATIONS N64-12967 BLACKOUTS INDUCED BY ACCELERATION SMCKING AND HEALTH OF HUMANS N64-13017 NACC-ML-6402 ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMCREGULATOR OF HUMAN SERUM RADICALBUMIN UCLA-12-521 ASAE PAPER 62-422 N64-13149 ACCUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF DRGANS & TISSUES OF MAN & ANIMALS SAM-TDR-63-12 N64-13350 ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & BODIES IN SIMULATED SPACE CABIN PATHOLOGICAL STATES SAM-TDR-64-3 JPRS-22782 N64-13376 ACUTE RADIATION SICKNESS IN MAN FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN FTD-TT-63-558/162 JPRS-22735 N64-13582

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN N64-13583 CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & N64-13584 MICROORGANISMS IN HUMAN GINGIVAL TISSUES N64-13865 N64-14542 MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION TECH. REPT.-115-2 N64-14779 ANALOG COMPUTER SIMULATION OF THERMOREGULATORY N64-14966 PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMIL ATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS MEASUREMENT OF BLCCD PRESSURE IN HUMAN BODY N64-17838 N64-17941 PERFUSION OF LUNGS OF HUMAN WITH ASTHMA N64-17945 GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE N64-17949 DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND N64-17950 N64-17951 PHYSIOLOGICAL MECHANISMS FOR STUDYING HUMAN BODY N64-18966 RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND N64-20194 DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN N64-20445 ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING N64-20450 PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES N64-20672 CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE N64-21101 MICRODRGANISM TRANSMISSION BETWEEN TWO HUMAN N64-21595

TRACE METAL - ESSENTIAL OR DETRIMENTAL TO LIFE

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN

BN1-828-/T-323/

AD-411171 SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND ANTIBODIES TO HUMAN AT HEMOGLOBIN AND THEIR FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN REACTION WITH CERTAIN OTHER HEMOGLOBINS HUMANS N64-21783 JPRS-24967 ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS N64-25767 N64-21941 NASA-CR-56205 FTD-TT-63-1095/1&2 HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS THRESHOLD OF ACCELERATION SENSATION IN MAN N64-26880 JPRS-25929 N64-22470 NASA-CR-56293 METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS N64-27338 SM-45905 N64-22731 PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS FTD-TT-64-258/18284 MEDICAL RESEARCH ON HUMAN BODY N64-27844 N64-22744 JPRS-25241 BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA N64-28039 REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND N64-22853 N64-29090 ANIMALS UNDER WEIGHTLESSNESS PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854 ADULT MALES SAM-TDR-64-37 N64-29286 LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW N64-22864 DENSITY LIPOPROTEINS METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM N64-29941 UNDER CONDITIONS OF WEIGHTLESSNESS DASA-1422 N64-22941 NASA-TT-F-8895 INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM N64-30156 N64-23309 FTD-TT-64-282/182 FTD-TT-63-719/182 RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM METHODS OF PHYSIOLOGICAL TESTING IN HUMANS N64-31319 UR-648 N64-23428 PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR N64-31457 JPRS-26427 **NOVEMENT** CARI-63-9 N64-23617 INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT N64-31458 AND EFFECT OF WEIGHTLESSNESS ON HUMANS STIMIN ATTON N64-23639 WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY PHYSICLOGICAL RESPONSE OF HUMAN BODY TO CORTICOSTEROID LEVELS IN MAN N64-31942 N64-23697 AMRL-TDR-64-53 **ACCELERATION** EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS HUMAN BIOCHEMICAL GENETICS JPRS-26577 N64-32163 N64-23749 EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADICISOTOPE IN HUMAN BODY FTO-TT-63-923/162 EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY N64-32662 N64-23760 **FUNCTIONS** PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE EXTENDED ISOLATION N64-23867 PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN JPRS-26990 RERFORMANCE EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION N64-24012 FTC-TT-64-140/184 N64-33496 T-84-J PROTECTION OF HUMAN EYE FROM LASER BEAM **HUMAN CENTRIFUGE** N64-24092 CENTRIFUGES USED TO TEST ACCELERATION VARIABLES AND EFFECTS ON HUMAN ORGAN SYSTEMS MECHANICS OF HUMAN BODY A64-24393 AMRL-TCR-63-123 N64--24339 ASTRONAUT TRAINING REQUIRING MEDICAL KNOWLEDGE AND PHYSICAL FITNESS DEVELOPED BY SCUBA DIVING AND CENTRIFUGE CONDITIONING A64-24403 KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIERIUM IN MAN N64-24341 PERFORMANCE OF SEATED HUMAN BODY IN SPACE OTOLITHIC STIMULUS EFFECT ON DISORIENTATION AND TROUBLESOME ILLUSIONS IN HUMAN STUDIED, USING LINEAR ACCELERATION OR ORBITING WITHOUT N64-24343 MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN ACCELERATION A64-25554 PILCT N64-25000 NASA-RP-206

N64-21733

N64-25155

DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN PROCESS OF FORMATION OF IMAGES OF GYMNASTIC

EXERCISES

PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO

BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR

HEADWARD ACCELERATION

MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATION OF SPACE FLIGHT A64-80554

HISTORY OF CEVELOPMENT AND USES OF HUMAN CENTRIFUGE IN AEROSPACE MEDICINE

A64-80680

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS NADC-ML-6410 N64-30169

HUMAN ENGINEERING
CF CYBERNETICS
CF MAN-MACHINE SYSTEM
REVIEW OF 273 CASES OF EJECTION FAILURES, GIVING
THE FATAL INJURY PATTERNS AND TOXICOLOGIC TEST
RESULTS
A64-10263

HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA A64-12941

PSYCHOLOGICAL EFFECTS OF SUBMARINE ENVIRONMENT ON HUMAN BEHAVIOR AND ADJUSTMENT POTENTIALITY OF PERSONNEL FOR EXTENDED SUBMERGED DUTY

A64-12977

HUMAN TRACKING PERFORMANCE UNDER TRANSVERSE ACCELERATION A64-14013

PHYSICIAN ROLE IN SPACE MEDICINE

A64-14118

HUMAN FACTORS IN DESIGNING MORE RELIABLE SYSTEMS, EMPHASIZING THAT HUMAN ERROR IS DUE PRIMARILY TO INAPPROPRIATE DESIGN A64-15953

HUMAN ENGINEERING FACTORS AND LIMITATIONS APPLIED AT INITIAL DESIGN STAGES OF SUPERSONIC TRANSPORT A64-16438

GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A SPACE-STATION LABORATORY AIAA PAPER 63-140 A64-18471

SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY IN X-15 AIRCRAFT A64-22635

HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION, EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES A64-23186

EFFECTS OF ACCELERATION ENVIRONMENT ON ASTRONAUT PHYSIOLOGICAL AND PERFORMANCE CAPABILITIES

A64-23213

PHYSIOLOGIC RHYTHM PERTINENCE TO HUMAN ENGINEERING FOR LIFE IN AEROSPACE WITH RESPECT TO ASTRONAUT SELECTION AND PERFCRMANCE A64-24621

IMPORTANCE OF PILOT VIEWPOINT AND EXPERIENCE IN MANNED SPACECRAFT DESIGN AND DEVELOPMENT A64-24713

MEDICAL AND BIGENGINEERING PROBLEMS IN LIFTING BODY DESIGN INCLUDING VISIBILITY AND CONTROL A64-24714

DYNA SCAR COCKPIT AND CREW PROTECTION SYSTEMS
DESIGN, NOTING IMPORTANCE OF PILOT PARTICIPATION
A64-24715

HUMAN ENGINEERING PROBLEMS IN LIGHT ATTACK
AIRCRAFT DESIGN INCLUDING PILOT EFFICIENCY,
COMFORT, SAFETY, SURVIVAL AND COMBAT EFFECTIVENESS
A64-24716

SUPERSONIC TRANSPORT DESIGN WITH REGARD TO BIOENGINEERING REQUIREMENTS FOR DISPLAY AND CONTROL SYSTEMS A64-24717

HUMAN FACTORS ENGINEERING AS APPLIED TO AEROSPACE PROGRAM A64-24820

LOCKING AHEAD MECHANISMS TO CHARACTERIZE HUMAN

OPERATORS SENSING AND USING FUTURE IMPUT DATA IN FORCED PACE CONTROL TASKS A64-24839

SPACECRAFT CABIN ARRANGEMENT EFFECTS ON ASTRONAUTS
PSYCHIC AND PHYSICAL TONUS
A64-25579

PRACTICE AND EXPOSURE TIMES EFFECT ON DIAL READING, COMPARING CIRCULAR AND LINEAR SCALES FOR ACCURACY A64-26855

ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS

A64-27272

FOOT PEDAL DESIGN AFFECTING OPERATION TIME
A64-80092

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES A64-B0147

VIBRATION STRESS REVIEWED WITH RESPECT TO BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES A64-80148

MAINTENANCE OF VIGILANCE IN AN AUDITORY MONITORING TASK A64-80203

BIOASTRONAUTICS, PHYSIOLOGICAL PROBLEMS, TECHNOLOGICAL ASPECTS, SPACE FLIGHT OPERATIONS, AND PERSPECTIVES A64-80476

ISCLATION AND DISORIENTATION DURING SPACE FLIGHT AS RELATED TO SELECTION, TRAINING, AND HUMAN ENGINEERING A64-8064

CIRCADIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRONAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT A64-80667

PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

EMERGENCY SUPPLY - INITIAL SUPPORT FOR FLIGHT MEDICINE AND BIDENVIRONMENTAL ENGINEER A64-81078

ENGINEERING PSYCHOLOGY AND HUMAN PERFORMANCE
A64-81180

CHAIR ANGLES, DURATION OF SITTING, AND COMFORT RATINGS A64-81193

OUTLINE OF SOVIET LITERATURE ON HUMAN
ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772
N64-10505

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS
JPRS-17544 N64-10695

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION JPRS-18719 N64-10786

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL
JPRS-19100 N64-10814

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING -PSYCHOLOGY JPRS-21976 N64-10852

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH N64-11516

HUMAN ENGINEERING IN MONITORING AND CHECKOUT EQUIPMENT WDL-TR-1968 N64-13972

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES
N64-15107

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR

TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47 METHODOLOGY AND PATTERNS OF RESEARCH IN RELATION TO HUMAN EACTOR N64-15752 A64-80458 HUMAN FACTORS FOR EXTRAVEHICULAR SPACE BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT SCIENCES, QUALITY CONTROL, AND RELIABILITY A64-80816 RH-3398B N64-18490 HUMAN FACTORS OF PHOTO INTERPRETATION RADC-TDR-63-324 N64-10526 QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION AMRL-TDR-64-21 N64-19101 N64-10528 HUMAN ENGINEERING - BIBLIOGRAPHY N64-20559 HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE EETC-7, REV. A SYSTEM LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION
IN SCIENCE OF BEHAVIOR
ESO-TDR-64-193
N64-2153 BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE N64-21533 EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL SCIENCES, QUALITY CONTROL, AND RELIABILITY RH-3398B N64-18490 PERCEPTION **HUMAN FACTORS & CONTROL SYSTEM** FTD-TT-63-980/162 N64-23312 FTD-TT-63-331/162 N64-21945 BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL N64-27351 RH-3398-F HUMAN ENGINEERING CRITERIA FOR USE IN SPACE SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND PERCEPTION FTD-TT-63-980/1&2 N64-23312 REPAIR OF ADVANCED SPACE SYSTEMS PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION NASA-CR-58575 N64-29557 OF AIRCRAFT IN INSTRUMENT FLYING N64-25158 BIBLICGRAPHY ON HUMAN ENGINEERING N64-29676 SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY FOR WORK TRAINING, MOTIVATION, AND HUMAN ENGINEERING N64-29918 AD-446448 BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION HUMAN FACTOR
CF MAN-MACHINE SYSTEM NASA-CR-56021 SAMPLED DATA HODEL FOR ACTION OF A CONTROL SYSTEM TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL FOR DIRECTING HUMAN GAZE AT A MOVING TARGET NASA-TN-D-2394 N64-26544 A64-14354 VISIBILITY PREDICTION, USING DATA ON HUMAN VISUAL BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING N64-27351 PERFORMANCE CAPABILITIES RH-3398-F HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER EVACUATION FROM SURVIVAL ACCIDENTS ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN INDUSTRY - ERGONOMICS N64-28104 A64-20760 GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR HUMAN FACTORS REFERENCE WORKS INCLUDING BOOKS, BIBLIOGRAPHIES, REPORTS AND JOURNALS A64-22078 NAVTRADEVCEN-294-5 N64-28636 HUMAN FACTORS IN LIGHT PLANE ACCIDENTS OPINIONS SURVEY OF MEMBERS OF HUMAN FACTORS SOCIETY ON ADEQUACY OF HUMAN FACTORS REFERENCE WORKS, USING QUESTIONNAIRE A64-2 N64-29850 CARI-63-35 A64-22079 HUMAN FACTORS INFORMATION REQUIREMENTS FOR SPACE SYSTEM DEVELOPMENT CURRENT AND FUTURE TRENDS IN HUMAN FACTORS NASA-CR-59050 N64-33208 **DOCUMENTATION** A64-22081 SINGLE MILITARY SPECIFICATION FOR HUMAN FACTORS IN HIMAN PATHOLOGY CASE REPORT ON 36-YEAR CLD COMMERCIAL PILOT SUFFERING FROM RHEUMATOID ARTHRITIS AND PROBLEM OF THERAPY RELATIVE TO FLYING SAFETY WEAPON SYSTEMS A64-22592 LATERALITY FACTOR IN RELATIONSHIP BETWEEN HAND PREFERENCE PATTERN AND FLYING SKILL IN AIRCREW A64-10262 TRAINING A64-22817 REVIEW OF THE SYMPTOMS, ETIOLOGY AND TREATMENT OF THE COMMON COLD, WITH SPECIAL ATTENTION TO THE AEROMEDICAL PROBLEM IT PRESENTS ANALYTICAL TECHNIQUES FOR HUMAN FACTOR ENGINEERING IN MAN-MACHINE SYSTEMS 464-10265 PROCEEDINGS OF FIFTH NATIONAL SYMPCSIUM ON HUMAN FACTORS IN ELECTRONICS OF IEEE AT SAN DIEGO, CALIFORNIA IN MAY 1964 A64 HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE N64-10516 A64-24819 LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN MODERN OPTIMAL CONTROL THEORY RELATION TO MANUAL CONTROL SYSTEMS EMPHASIZING HUMAN ELEMENT SUCCESSFULLY RESUSCITATED PATIENTS A64-24837 JPRS-22012 N64-11226 HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF **HUMAN PERFORMANCE** DISORDER IN THE MOTOR-SENSORY LOOP CAUSES INSTABILITY IN HUMAN PLASTIC SYSTEMS OF COORDINATION

A64-26525

A64-80243

A64-10090

VISUAL DISTANCE ESTIMATION IN SPACE, USING ANGULAR SUBTENSE AND ILLUMINANCE AND LUMINANCE OF CELESTIAL AND ORBITAL BODIES A64-10624

MORAL DISCIPLINE IN WORKMANSHIP

AIRCRAFT ACCIDENTS

NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN

CIVIL AVIATION AIRCRAFT ACCIDENT INVESTIGATION -

VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN MANNED SPACEFLIGHT A64-10627 A64-10627

HUMAN PERFORMANCE IN SOUND LEVEL IDENTIFICATION FOR LEVELS WITH AN UNBALANCED PROBABILITY OF **OCCURRENCE**

USAF ESD-TDR-62-352

PSYCHOLOGICAL AND PHYSICAL CRITERIA RECOMMENDED FOR SELECTION OF ASTRONAUTS A64-11 A64-11427

HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK
COMMITMENT STRESS A64-12 A64-12978

ACCELERATION STRESS ON HUMAN BEHAVIOR AND PHYSICLOGY, NOTING PSYCHOMOTOR PERFORMANCE, MENTAL ABILITIES AND EMOTIONAL RESPONSE

A64-12980

PHYSICAL AND PHYSIOLOGICAL FACTORS OF TEMPERATURE EFFECT ON HUMAN PERFORMANCE A64-1298

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH, EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE AND TOLERANCE A64-129 A64-12985

MEASUREMENT OF EMOTIONAL REACTIONS, INDIVIDUAL PERFORMANCE AND GROUP EFFECTIVENESS OF SUBJECTS ENGENDERED BY ISOLATION CONFINEMENT AND ENVIRONMENTAL STRESS IN THE ANTARCTIC

464-13515

MAN AND MACHINE SYSTEM EVALUATION FOR SCIENTIFIC EXPLORATION OF SPACE A64-149 A64-14990

VARIATION IN VISUAL SEARCH PERFORMANCE, WITH CHANGING VELOCITY AND DENSITY OF OBJECTS IN A MOVING STRUCTURED FIELD A64-A64-15168

VIGILANCE TEST SHOWING EFFECT OF EVENT RATE ON OBSERVATION PERFORMANCE AND NOTING DECISION THEORY APPROACH A64-15474

VISUAL POTENTIALITIES OF MAN IN SPACE

A64-16118

NOISE BURST EFFECT ON PERFORMING TASK OF SEARCHING VISUAL DISPLAY IN WHICH RANDOM NUMBERS WERE PRESENTED AT RATE OF FIVE PER SECOND

ENVIRONMENTAL EFFECTS ON HUMAN VISUAL OBSERVATION OF SATELLITE FROM ANOTHER SATELLITE WHILE IN ORBITAL FLIGHT A64-18321

INTEGRATED HUMAN RESEARCH TO DETERMINE PERFORMANCE CAPABILITIES UNDER NORMAL AND ABNORMAL INTERNAL AND EXTERNAL ENVIRONMENTS

464-20689

TIMING OF SCANNING PROCESS USED TO ANALYZE HUMAN PERCEPTION AND THOUGHT MECHANISMS INVOLVED IN VISUAL SEARCH AND DISCRIMINATION

COMPUTER-AVERAGED POTENTIALS FOR CORTICAL EVOKED RESPONSES TO STIMULI DURING VISUAL VIGILANCE A64-21023

INPUT FACTORS AFFECTING ACCURACY WITH WHICH OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET DISPLAYS 464-21610

INTEGRATED GUIDE FOR DESIGNERS OF DISPLAYS FOR COMPLEX SYSTEMS A64-22080

EXPERIMENT FOR COLLECTING EMPIRICAL DATA ON HUMAN PERFORMANCE IN COMMAND AND CONTROL SYSTEMS A64-22513

COMPUTER TO MAN INFORMATION TRANSFER COMPARING TECHNOLOGY WITH INTUITION

RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS A64-22636 MECHANICAL ENERGY CONVERSION AND CONTROL EQUIPMENT SHOWING HUMAN LEARNING AS CONTRIBUTION TO REI TARTI TTY

PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE AND EFFICIENCY OF WORK IN NORMAL AND REDUCED TRACTION ENVIRONMENTS

SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD STRENGTHS A64-22818

HIGH ALTITUDE EFFECTS ON QUALITATIVE AND QUANTITATIVE CHANGES IN MANS WORK CAPACITY A64-23259

REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM EARTH, EXAMINING HUMAN AND SIMULATION ASPECTS A64-23297

PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM MANUALLY CONTROLLED VEHICLES A64-23300

SENSORY AND PERCEPTUAL CAPABILITIES IN RELATION TO TASKS PERFORMED DURING SPACE FLIGHT

RELATION OF PHYSICAL PROTECTION OF MAN TO ISOLATION AND DISORIENTATION DURING SPACE TRAVEL A64-24620

SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME INVARIANT CONTROL SYSTEM A64-24833

HUMAN OPERATOR PERFORMANCE IN BANG-BANG CONTROL SYSTEM IN PHASE PLANE, INTERPRETING RESULTS IN TERMS OF SWITCHING LINES A64-24 A64-24840

PHYSIOLOGICAL AND PSYCHOLOGICAL EFFECTS OF ISOLATION AND CONFINEMENT ON HUMAN RELIABILITY

CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK A64-25202

EXPERIMENT TO DETERMINE ACCURACY WITH WHICH INDIVIDUALS PRODUCE ANGLES IN RANGE OF 15 TO 90 DEGREES WHEN GIVEN HORIZONTAL OR VERTICAL LINE OF REFERENCE A64-25345

TRUE AND FALSE KNOWLEDGE OF RESULTS EFFECT ON DETECTING BRIEF PAUSES IN MOVEMENT OF CLOCK HAND A64-25479

ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT ENVIRONMENT WITH RESPECT TO WORK AND REST CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT

ISOLATION EFFECT ON HUMAN PERFORMANCE AND STABILITY OF DEVELOPED HABIT OF TRANSMITTING INFORMATION A64-25593

HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING AUDITORY DETECTION, VISUAL DETECTION AND COMBINATION OF BOTH A64-20

VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN PERFORMANCE FOR VIGILANCE TASKS A64-26850

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY, CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO TWO-HAND CRANKING TASK

COMPARISON OF JOY STICK WITH MULTIPLE LEVERS FOR EFFECTIVE CONTROL-EFFECTOR RELATIONSHIPS IN REMOTE MANIPULATOR APPLICATIONS

DISPLAY UPDATE RATE EFFECTS ON IMMEDIATE MEMORY OF HUMAN MONITOR IN CONTROL SYSTEM

A64-26853

TASK PERFORMANCE MEASUREMENTS EXAMINING EFFECT OF INSERTED ARTIFICIAL SIGNALS AND RESPONSE COMPLEXITY ON VIGILANCE A64-2685 A64-26857 A64-80393

RETINAL AREA AND STIMULUS INTENSITY RELATIONSHIP TO HUMAN REACTION TIME A64-277 A64-27752

HUMAN COLOR DISCRIMINATION IN PURPLE REGION A64-27753

AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT LOW SIGNAL FREQUENCY A64-80130

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL A64-80381 IN MAN

HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND METHODS OF IMPROVING TOLERANCE IN MAN

PHYSICLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

NOISE EFFECT ON PERIPHERAL CIRCULATION & PHYSICAL **EXERCISE** A64-80413

VIGILANCE AS FUNCTION OF SIGNAL FREQUENCY AND A64-80439 FLASH RATE

PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE **FLIGHT**

ACCELERATION TOLERANCE AND PERFORMANCE AS RELATED TO SIMULATOR TRAINING OF ASTRONAUT A64-80666

CATECHCLAMINE EXCRETION AND PERFORMANCE DURING 464-80743 STRESS

SIMILARITY OF AUTOMATIC INTERPRETATION OF QRS COMPLEX BY PATTERN RECOGNITION TECHNIQUE TO HUMAN PATTERN RECOGNITION 464-80886

NOISE EFFECT ON HUMAN PERFORMANCE ON TASK REQUIRING REGULAR SHIFT OF ATTENTION

A64-81 004

MOTOR SKILLS BIBLIDGRAPHY

A64-81138

HUMAN INFORMATION TRANSMISSION WITH SEQUENCES OF SOUND PULSES AT DIFFERENT RATES AND USE OF BINARY A64-81188

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA SLOW ROTATING ROOM A64-81324

HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY N64-10147

LABORATORY STUDIES OF ABILITY OF OBSERVERS TO RERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING HSR-RR-63/7-MK-X N64-10444

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING

N64-10445

ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES HSR-RR-61/13-MK-X N64-10446

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR ST I MULI

HSR-RR-62/9-MK-X

HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO HORIZONTAL POSITION HSR-RR-63/2-MK-X

FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING AMRL-TDR-63-78 N64-11177

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS

CONDITIONS AFFECTING VIGILANCE BEHAVIOR AND RELATION TO VARIATION IN DETECTION RESPONSE N64-13106 HUMRRO-RB-10

VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS

LB-31403 N64-13108

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112 N64-14168

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK -ELECTROCARDIOGRAPHIC ANOMALY REPT.-15 N64-14778

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH ENG. REPT.-11133 N64-14943

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS - ELECTROENCEPHALOGRAPHIC STUDIES N64-14952

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE NASA-CR-55622

HUMAN GROUP PERFORMANCE DURING CONFINEMENT N64-15747

WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE D3-3512-4 N64-15855

HUMAN INFORMATION PROCESSING UNDER TASK STRESS ESD-TDR-63-657 N64-16088

PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL N64-16089 REPT.-597

MANUAL CONTROL SYSTEMS AND HUMAN OPERATOR PERFORMANCE

NASA-CR-55514

N64-16111

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS
NASA-CR-55756 N64-16330

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT CAL-IH-1715-E-5 N64-16489

HUMAN TRACKING PERFORMANCE & TOLERANCE TO **ACCELERATION** NASA-CR-21 N64-16534

SIMULATOR STUDY OF HUMAN PERFORMANCE DURING LOW ALTITUDE, HIGH SPEED FLIGHT TRECOM-TR-63-52 N6 N64-16648

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING N64-16728 CAR 1-63-18

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS AMRL-TDR-63-125 N64-16811

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL AMRL-TDR-63-136 N64-16813

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE AMRL-TDR-63-137 N64-17510

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-

SUBJECT INDEX HUMAN REACTION

PHYSICS ESD-TDR-64-174

N64-18588

ADAPTIVE CYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL NASA-TN-C-2255 N64-18734

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796

SELF-ORGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING AND PERFORMANCE - INTERACTION BETWEEN MAN AND ADAPTIVE MACHINE N64-18841

SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND MESSAGE ITEMS
ESD-TCR-64-254
N64-19670

PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS AD-428192 N64-19909

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879 N64-19955

BICMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR M.INTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE AD-428100 N64-19965

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION
PERFORMANCE IN VISUAL VIGILANCE TASK
TR-75C-2
N64-20409

EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE NASA-TM-X-53011 N64-20591

HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN ESD-TDR-63-320 N64-21081

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROCM

N64-22433

SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, LEARNING, AND WORK ACTIVITY NASA-TT-F-164 N64-25132

THRESHCLDS OF SPATIAL DISCRIMINATION BY HUMAN FINGERS N64-25142

INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO FILE METAL N64-25156

ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER
N64-25157

INTERPRETATION OF AERIAL PHOTOGRAPHS N64-25159

ROLE CF SPATIAL CONCEPTS IN MAP READING AND

PRCCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS
OF DRAWING AND DESIGNING N64-25161

HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY AMRL-MEMC-P-54 N64-26852

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY
PRESENTED RESULTS
TR-18
N64-27096

RELATION OF HUMAN PERFORMANCE IN AUDITORY
VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19
N64-27097

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL N64-27385

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING

IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION
NADC-AC-6406
N64-28696

HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION,
MAINTENANCE, AND CONTROL OF TACTICAL
METEOROLOGICAL INSTRUMENTS
ESD-TDR-64-437
N64-29751

ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING PERFORMANCE AD-602861 N64-29762

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT TERM RECALL OF BRIEFLY EXPOSED DISPLAYS NAVTRADEVCEN-1303-1 N64-29814

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS CARI-63-29 N64-29847

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN
OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15
N64-30018

ROLE OF PINNA IN HUMAN LOCALIZATION
AD-600151 N64

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT AMRL-MEMO-P-45 N64-30500

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION AD-601973 N64-30646

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS AD-445253

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN
PERFORMANCE N64-30720

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN HUMAN PERFORMANCE N64-30721

GECGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT ACR-95 N64-31508

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT
N64-31512

VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL READING CAL-VH-1838-E-1

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE APR-2 N64-32379

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS

NAA-32

UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING REPT.-64-30 N64-33689

REPLACEMENT OF MOTOR RESPONSES WITH VERBAL RESPONSES IN HUMAN PERFORMANCE JPRS-27172 N64-33960

HUMAN REACTION

CHANGES IN FREQUENCY AND ALPHA RHYTHM AMPLITUDE IN ELECTROENCEPHALOGRAM OF HUMAN SUBJECT DURING PROLONGED COMFINEMENT FOR VARIOUS ACTIVITY **SCHEDULES**

A64-16846

BODY SUPPORT CHARACTERISTICS OF NET FABRIC SEAT CONFIGURATIONS FOR AEROSPACE VEHICLES, EVALUATED FROM ACCELERATION, IMPACT AND VIBRATION TESTS A64-20688

HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS A64-22062

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND ISOTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS
RESPONSES AS COMPARED TO MALE SUBJECTS UNDER A64-22812 SIMILAR CONDITIONS

ASSESSING HUMAN RESPONSE TO IMPACT ACCELERATION, CONSIDERING PROTECTION AGAINST MECHANICAL EFFECTS A64-23207

DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER
SYSTEM USING ANALOG COMPUTER TO SIMULATE
PHYSICLOGICAL RESPONSE A64-25320 A64-25320

WEIGHTLESSNESS EFFECTS ON EXCITABILITY OF MANS VESTIBULAR ANALYZER A64-2 A64-25583

LATENT PERIOD OF MOTOR RESPONSE OF MAN UNDER ISOLATION CONDITIONS NOTING ROLE OF ORIENTING A64-25592 REFLEX

STATOKINETIC STIMULI EFFECT ON FUNCTIONS OF HUMAN A64-25594 **ORGANISMS**

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF TONE STIMULUS DURATION A64-2663 A64-26635

HUMAN BODY RESPONSE TO ACCELERATION, VIBRATION AND IMPACT IN PRESENCE OF OTHER STIMULI

A64-28345

NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED DIET FOR SPACE FLIGHT MISSION A64-80863

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

HUMAN REACTIONS TO SLOW ROTATIONAL MOTION N64-20731 NASA-CR-53988

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON N64-23738 HUMANS

HUMAN REACTION TO WEIGHTLESSNESS

N64-23748

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND N64-27098

HUMAN REACTION TO SONIC BOOM

N64-30466

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND CCLD — INSTRUMENTATION N64-30859

PLETHYSMCGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY

N64-311C4

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE OTHER PHYSIOLOGICAL CHANGES

PHYSICLOGICAL SIGNIFICANCE OF HUMAN VOICE AS CBSERVED IN CHILDREN N64-31461

HUMAN REACTIONS TO COLD ENVIRONMENT AD-444482

N64-33366

HUMAN TOLERANCE SA TOLERANCE /BIOL/ EFFECTS ON WORD INTELLIGIBILITY WHEN EXPOSED TO LOW FREQUENCY SINUSOIDAL VIBRATIONS WITHIN THE RANGE OF 6 CPS TO 20 CPS FOR SEMI-SUPINE TALKERS A64-10253 RAPID DECOMPRESSION HAZARDS AFTER PROLONGED EXPOSURE TO 50 PER CENT OXYGEN-50 PER CENT NITROGEN ATMOSPHERE A A64-10259

HUMAN TOLERANCE TO CONFINEMENT AS RELATED TO PERSONALITY TRAITS INVESTIGATED IN SELECTION OF **ASTRONAUTS**

PSYCHOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT, DISCUSSING ASTRONAUT ISCLATION AND CREW MEMBER COOPERATION

RANGE OF PHYSIOLOGICAL TOLERANCE ENCOUNTERED IN A64-12379 AIRCRAFT AND SPACE VEHICLES

HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA A64-12941

BOOK ON HUMAN RESPONSE TO ENVIRONMENTAL CONDITIONS **ENCOUNTERED IN SPACE** A64-12973

EFFECTS OF CARDIOVASCULAR, THERMAL, VISUAL AND RESPIRATORY STRESSES INDUCED BY UNUSUAL **ENVIRONMENT** A64-12974

HUMAN STRESS MODEL, VIEWING ORGANISM AS SYSTEM WITH ENERGY AND INFORMATION INPUTS AND OUTPUTS, PROVIDING PSYCHOLOGICAL AND PSCHOPHYSIOLOGICAL INDICES OF STRESS A64-12975

DIGITAL COMPUTER SIMULATION OF MAN-MACHINE SYSTEMS, SIMULATING HUMAN OPERATOR STRESS, URGENCY CONDITIONS AND POINT OF BREAKDOWN

VIBRATORY FORCE EFFECT UPON BIOLOGICAL SYSTEMS PARTICULARLY HUMAN ORGANISM A64-12983

FATIGUING TONE EFFECT INVESTIGATED AS FUNCTION OF LEVEL OF MENTAL ACTIVITY A64-13302

B-58 ESCAPE CAPSULE FLIGHT TEST OF EIGHT EJECTIONS AT SUBSONIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION A64-13510

HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION 464-13518

HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS

A64-13522

COLD STRESS EFFECT ON CEREBRAL FUNCTIONS AND THE RELATIONSHIP OF CEREBRAL FUNCTIONS TO METABOLIC REACTIONS

SOLAR RADIATION EFFECTS ON EYE, SOLAR IRRADIANCE COMPUTATIONS UP TO 100 KM AND EYE PROTECTION FOR A64-14994 AIR TRAVELERS

PHYSICLOGICAL RESPONSES OF MAN IN ORBIT. EMPHASIZING WEIGHTLESSNESS AND IONIZING RADIATION EFFECT A64-16313

HUMAN ANNOYANCE MEASUREMENT OF SIMULATED SONIC BOOMS AND AIRCRAFT NOISE A64-16711

HUMAN TOLERANCE TO PHYSIOLOGICAL EFFECTS OF HEAD MOTIONS IN ROTATING ENVIRONMENT AIAA PAPER 64-218 A64-20093

MANNED IMPACT TESTS OF ACTIVE ELASTIC RESTRAINT SYSTEM, USING PRESSURIZED AIRBAGS ABOUT THE HUMAN AIAA PAPER 64-220 A64-20231

PHYSICAL EFFECTS OF WOBBLE, STATIC AND DYNAMIC UNBALANCE, DOCKING AND CREW MOVEMENTS ON ROTATING SPACE STATION AIAA PAPER 64-335 A64-20358

AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH INJURIES TO PASSENGERS SAE PAPER 851A A64-20759

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED OXYGEN PARTIAL PRESSURE AND NITROGEN

464-22053

TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC 464-22057

THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE PERSONNEL INCLUDING THOSE IN TECHNOLOGY A64-22814

SYMPOSIUM ON PHYSIOLOGICAL EFFECTS OF HIGH ALTITUDE AT INTERLAKEN, SWITZERLAND IN SEPTEMBER A64-23253

PSYCHOLOGICAL AND PHYSIOLOGICAL ALTERATION OF LACK OF VISUAL, AUDITORY AND TACTILE STIMULATION IN SPACE FLIGHT A64-23766

REVIEW OF HUMAN TOLERANCE TO FORCED ENVIRONMENTS OF SPACE FLIGHT, INCLUDING EFFECTS OF PROLONGED AND TRANSIENT ACCELERATIONS, VIBRATIONS AND NOISE A64-24394

HUMAN ADAPTABILITY LIMITATION TO VARIOUS ATMOSPHERIC ENVIRONMENTS WITH TOXIC TRACE 464-24395

HUMAN THERMAL BALANCE, HEAT TOLERANCE AND PROTECTION IN ARTIFICIAL SPACECRAFT ENVIRONMENT A64-24396

BICLOGICAL EFFECTS OF HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS IN RELATION TO A64-24398

PHYSICLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL

IN FLIGHT ACCELERATION CONSIDERING APPLIED AND INERTIAL FORCES, HUMAN TOLERANCE, VIBRATION AND A64-24617

WEIGHTLESSNESS AND SUBGRAVITY EFFECT ON PHYSICLOGICAL SYSTEMS PARTICULARLY MUSCULO-SKELETAL, CARDIOVASCULAR AND EQUILIBRIUM SENSES A64-24618

SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS EXPOSURE TO CARBON CIOXIDE AND INCREASED OXYGEN A64-25319

THERMAL RESPONSE OF HUMAN SUBJECT IN FULL PRESSURE SUIT UNDER ARCTIC FIELD CONDITIONS A64-25542

LIPID PERCXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN TOXICITY

VEGETATIVE AND PSYCHIC RESPONSE EFFECTS ON HUMAN TOLERANCE TO WEIGHTLESSNESS A64-25582

BICELECTRIC ACTIVITY OF CEREBRAL CORTEX IN RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS OF ELECTROENCEPHALOGRAMS A64-25599

BICLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT SYSTEMS

HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL RESERVES OF PILOT A64-27025

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED, APPLYING CRITERION BASED ON PULSE BEAT AND BODY **TEMPERATURE** A64-27027

MANS SHORT TIME TOLERANCE TO SINUSOIDAL VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN THREE ORTHOGONAL AXES A64-27596

TWO WEEK BED REST EFFECT UPON CARDIOVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL REACTIONS IN MAN A64-A64-27597 MECHANICAL IMPEDANCE MODEL TO DEVELOP QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION

A64-27599

PHYSIOLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458

HUMAN TOLERANCE TO SPACE FLIGHT STRESSES

A64-80105

VIBRATION STRESS REVIEWED WITH RESPECT TO BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES A64-80148

HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND METHODS OF IMPROVING TOLERANCE IN MAN

864-80393

HUMAN TOLERANCE TO COMBINED SPACE FLIGHT STRESSES A64-80495

PRIOR INSTRUCTIONS, TIME ORIENTATION, SEX, AND SKILL IN SCUBA DIVING AS RELATED TO TOLERATION OF SENSORY ISOLATION A64-80965

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN N64-10146

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS JPRS-21586 N64-10197

ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH JPRS-21481 N64-10597

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS N64-10703

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE CAR I-63-15

INFLUENCE OF RADIATION EXPOSURES ON PLANT **EMPLOYEES** ANL-6688

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN N64-12864

HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION N64-13455

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459

HUMAN TCLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT AAL-TDR-62-44

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES N64-15107

HUMAN AND ANIMAL TOLERANCE OF HEAT

FTD-TT-63-650/184

N64-16383

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS

N64-16674

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD

AMRL-TER-63-106 N64-16808

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE UNDER CONDITIONS OF ACCELERATION STRESS FTC-MT-63-20/1 N64-18665

HUMAN TOLERANCE TO EXTENDED PERIODS OF WE IGHTLES SNESS N64-18973 JPRS-24308

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND N64-22075 DECELERATION FORCES

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NOCDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS N64-23608 AIAA PAPER-64-218

PHYSICLOGICAL EFFECTS AND HUMAN TOLERANCES -INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24 N64-24610

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN NASA-CR-56896 N64-27889

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM N64-31319

HUMAN WASTE CF FECES CF URINE

REUTILIZATION OF HUMAN WASTE MATERIALS IN SPACECRAFT LIFE SUPPORT SYSTEMS

PHYSICCCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPCSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS N64-19556

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA TN-62-16

TOXIC GASECUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER

PHYSICLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FRCM HUMAN WASTE /FECES/ NASA-CR-58287 N64-29194

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -BICASSAY WITH CHLORELLA N64-30569 AD-605724

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE N64-31315

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS AAL-TDR-63-36 N64-32115

HUMIDITY

CF WATER VAPOR HUMIDITY IN THE CABIN OF A DOUGLAS DC-8 AIRLINER DURING COMMERICAL FLIGHT

CARDIOVASCULAR RESPONSE IN MAN TO HIGH AMBIENT TEMPERATURE AND HUMIDITY A64-80135

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS

A64-80771

BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION A64-81184

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO HOT AND HUMID CONDITIONS A64-8119

HYBRID PROPELLANT S PROPELLANT

HYDRAZ INE CF DIMETHYL HYDRAZINE CF TETRAFLUOROHYDRAZINE HYDRAZINE EFFECT ON LIVER LIPIDS

A64-80329

N64-10593

N64-29202

LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL COMPONENT A64-81029

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS AMRL-TDR-64-26 N64-22373

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947

HYDRIDE

S PENTABORANE

HYDROB IOLOGY RADIOACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY -HYDRO8ICLOGY

HYDROCARBON

JPRS-20614

CF ALKANE HYDROCARBONS OF TERRESTRIAL SAMPLES AND ORGUEIL METEORITE ANALYZED, SHOWING THAT ALKANES ARE BEST INDICATORS OF FORMER LIFE ON EARTH

TOXICOLOGICAL METHODS FOR DETECTION OF POISONOUS COMPOUNDS OF INTEREST IN AEROSPACE MEDICINE A64-80349

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF N64-13507

FLEMENTARY HYDROCARBON MICROBIOLOGY ASD-TDR-63-752 N64-21501

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES NASA-CR-50703 N64-22761

TOXICOLOGY OF ALIPHATIC AMINES N64-23370

BIOTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE NASA-CR-53096 N64-23392

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES NASA-CR-58500

HYDROCARBON COMBUSTION

LOWER LIMIT OF FRONT GAS REACTIONS DETERMINED IN COMBUSTIBLE MIXTURES OF ORGANIC WASTE IN LIMITED AND UNLIMITED SPACE A64-25614

HYDROCARBON FUEL IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON A64-19143

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS ASD-TDR-63-242 N64-19892

HYDROCARBON POISONING SA BENZENE POISCNING KEROSENE AND OTHER HYDROCARBON POISONING IN RATS A64-80001

TETRAETHYLLEAD INTOXICATION DIAGNOSIS

A64-80196

HYDRODYNAMICS CF MECHANICS /GEN/

COMPUTER SIMULATION OF CARDIOVASCULAR SYSTEM HYDRODYNAMICS A64-80209

CF TRITIUM
BICCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF
HYDROGEN AND FORMIC ACID N64-13968

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TCR-64-35

HYDROGEN SULFIDE BICGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BICGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR &

SULFATES JPRS-22672

N64-130C7

HYDROGENOMONAS

DICREGENERATING SYSTEMS - USE OF HYDROGEN-OXIDIZING BACTERIA, CLOSTRIDIUM AND HYDROGENOMONAS IN REGENERATION OF EXPIRED AIR A64-80468

HYDROLOGY

S METEOROLOGY

HYDROLYSIS

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES NASA-RP-236 N64-26710

HYDROMAGNETISM

S PLASMA

HYDROSTATIC PRESSURE HYPOXIA AND HYDROSTATIC PRESSURE EFFECTS ON CONDITIONED REFLEXES IN FISH A6 464-R12RR

HYGIENE

CF HEALTH CF SANITATION

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST A64-80564

CUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSICLOGY, PSYCHOLOGY, AND HYGIENE N64-10505

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION JPRS-19067

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF JPRS-23284

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PREDUCTION FTC-TT-63-578/162

HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM

JPRS-26069 N64-27671

HYGIENE AND SANITATION IN USSR

N64-28430

HYOSC INE

S SCCPOLAMINE

HYPERBOLIC SPACE HYPERECLIC SPACE STRUCTURE COMPARED WITH EUCLIDEAN STRUCTURE OF VISUAL SPACE A64-80491

HYPERCAPNIA

RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA DURING HIGH ALTITUDE ACCLIMATIZATION

A64-12988

HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN

VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA

A64-80053

CEREBROSPINAL FLUID AND PLASMA BICARBONATE AND ELECTROLYTES IN DOG IN ACUTE AND PROLONGED

ADENOSINE TRIPHOSPHATE IN BRAIN OF RAT EXPOSED TO CHRONIC HYPERCAPNIA A64-80100

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG A64-80611

NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS. AND PURE DXYGEN BREATHING A64-806: A64-80633

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL **FACILITIES** A64-80772

CONCENTRATION OF CARBON DIOXIDE, HYPERCAPNIA AND EFFECT ON CORONARY CIRCULATION IN DOG

A64-80897

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD

A64-80927

ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION STRESS TOLERANCE A64-81264

HYPERGOLIC PROPELLANT S PROPELLANT

HYPEROPIA

ACCOMMODATION AND CONVERGENCE CONSIDERED WITHIN CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS FUNCTION OF EXOPHORIA AND HYPEROPIA.

A64-80026

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS WITH NORMAL VISION AND WITH VARIOUS VISUAL

HYPEROPIA, MYCPIA, AND ASTIGMATISM - DIAGNOSIS AND EVALUATION OF PHYSICAL FITNESS FOR OCCUPATIONAL OPERATION OF VEHICLES 464-81296

EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPERCXIA/

SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA

A64-19136

HYPEROXIA EFFECT ON PROTEOLYSIS OF BRAIN OF WHITE RATS FOLLOWING OXYGEN EXPOSURE OF 6 AND 3.5 ATMOSPHERES FOR VARYING TIME

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS

ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIOUS DAYGEN CONCENTRATIONS AT HIGH ALTITUDE AND A64-80168

OXYGEN INTOXICATION UNDER NORMAL AND INCREASED ATMOSPHERIC PRESSURE A64-80221

OXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND ANALYSIS OF BLOOD GASES

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE

464-80326

PARTIAL PRESSURE CHANGES OF OXYGEN AND CARBON DIOXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN 464-80431

TOLERANCE OF MICE X-IRRADIATED IN HYPERCXIC ENVIRONMENT TO EXPLOSIVE DECOMPRESSION

A64-80441

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO OXYGEN AT HIGH PRESSURE

A64-80629

ANCXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

A64-80803

POST-MORTEM PULMONARY CHANGES OCCURRING IN MICE EXPOSED TO 100 PER CENT DXYGEN AT 740 MM HG 464-80856

BLCOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA 464-80926

LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT CENTRAL NERVOUS SYSTEM N64-14607

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPERCXIA N64-18917

SAM-TOR-64-6

ALVEOLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM OF HYPERPNEA IN RAT EXPOSED TO COLD A64-80046

MECHANISM OF HYPERPNEA DUE TO COLD IN RAT

A64-80054

HYPERSONIC WIND TUNNEL
HYPERSONIC FREE-PISTON TUNNEL

N64-15344

AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY AD-435787 N64-18632

HYPERTENSION

CF BLCCD PRESSURE PILOT AUTOGENOUS RESPONSE TO CAUSES OF ESSENTIAL HYPERTENSION MEASURED BY NEUROVOLTMETER, AND METHODS FOR OVERCOMING THIS RESPONSE A64-11441

HYPOXIA EFFECTS ON BLOOD PRESSURE AND THYROID FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS A64-23254

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR N64-10683 JPRS-17498

ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF N64-10684 ESSENTIAL HYPERTENSION

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA. BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021 N64-11621

PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL COCLING, GIVING OBSERVATIONS MADE ON RATS AND A64-14995 HUMANS

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE RELATED TO BODY POSITION IN RABBIT A64-80040

ELECTRGCARDIDGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA A64-80048

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY

A64-80195

MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED

PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG A64-80874 DURING SURFACE HEATING

PHYSIOLOGICAL RESPONSES TO HIGH ENVIRONMENTAL 464-80878 TEMPERATURE AND HYPERTHERMIA

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL CORTEX IN GOAT A64-81226

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA SAM-TDR-64-44 N64-29288

HYPERVELOCITY WIND TUNNEL HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO FLOW FIELD AT NOSE REPT.-2-59740/3R-479 N64-15343

HYPERVENTILATION ABDOMINAL REFLEX INHIBITION IN RAT DURING HYPERVENTILATION

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-8032 A64-80323

CARDIOVASCULAR RESPONSE TO ACUTE HYPOCAPNIA DUE TO **OVERBREATHING** A64-80407

PARTIAL PRESSURE CHANGES OF OXYGEN AND CARBON DIOXIDE IN ALTITUDE ASCENTS — EFFECTS ON MAN A64-80431

ARTERIAL CARBON DIOXIDE TENSION - EFFECT ON FLOW RESISTANCE AND MECHANICS OF LUNG IN MAN DURING VOLUNTARY HYPERVENTILATION A64-80740

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL FACILITIES 864-80772

PSYCHOLOGICALLY PRODUCED HYPERVENTILATION IN AIRCRAFT ACCIDENTS AND METHODS OF PREVENTION A64-80818

CORONARY FLOW RESPONSE TO HYPOCAPNIA OF DOG INDUCED BY HYPERVENTILATION A64-80829

VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE

A64-80898

BLOOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA A64-80926

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DOG AS RELATED TO PH AND CARBON A64-81009 DIOXIDE TENSION

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST

A64-81054

INITIAL REFLEX COMPONENT OF HYPERVENTILATION IN FIRST SECONDS OF PHYSICAL EXERCISE

A64-81227

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR **OXYGEN TRANSFER AND CONSUMPTION**

N64-15037

HYPNOSIS

AIRCRAFT ACCIDENT INVESTIGATION WITH AID OF HYPNOTIC RECALL A64-80337

HYPNOTIC CONTROL OF COMPENSATORY TRACKING WITH NORMAL AND REVERSE COMPATIBILITY UNDER DIFFERENT STATES OF AROUSAL A64-80713

HYPOCAPNIA

NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPCCAPNIA, ALKALOSIS, AND PURE OXYGEN BREATHING
A64-806: A64-80633

CORONARY FLOW RESPONSE TO HYPOCAPNIA OF DOG INDUCED BY HYPERVENTILATION A64-80829

HYPOTENSION

CF BLOOD PRESSURE DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

HYPOTHAL ANUS

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY

A64-80113

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE

A64-80975

HYPOTHERMIA

ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN DOGS AND RATS A64-25590

ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA A64-80048

EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF ANESTHETIZED DOG TO HYPOTHERMIA

A64-80049

HYPOTHERMIA AND ASCORBIC ACID CONTENT AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT DTS 62-11760/1.

HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN THE HUMAN A64-80084

DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM OF HYPOTHERMIC DOGS 464-80086

CARDICVASCULAR PHYSIOLOGY UNDER HYPOTHERMIA A64-80162

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND MUSCLE A64-80365

HYPOTHERMIC EFFECT ON GLYCOLYSIS AND DXYGEN CONSUMPTION IN DOG KIDNEY A64-80569

RH-TEMPERATURE CONVERSION FACTOR AND CARBON DICXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL 464-81010

REDUCTION OF RETROACTIVE EFFECT OF INTERPOLATED MAZE TRAINING IN HYPOTHERMIC MICE

A64-81015

CAROTID SINUS DEPRESSOR REFLEXES OF DOG DURING HYPOTHERMIA A64-81062

DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-811C2

ELECTRORETINOGRAM AND ELECTROENCEPHALOGRAM OF

VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA A64-81187

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY SID-63-354

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA FTD-TT-63-1096/182

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS JPRS-25650 N64-27503

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE NASA-CR-58526 N64-28838

HYPOXIA

CF ANDXIA RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA DURING HIGH ALTITUDE ACCLIMATIZATION

A64-12988

DECOMPRESSION OF MICE IN ATMOSPHERES CONTAINING HELIUM OR ARGCN IN PLACE OF NITROGEN TO TEST HYPOXIC TOLERANCE OF ANIMALS A64-20693

METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK A64-20696

HYPCXIA EFFECTS ON BLOOD PRESSURE AND THYROID FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS A64-23254

HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED SUBJECTS A64-23260

HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL RESERVES OF PILOT A64-27025

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS A64-80052

HYPOXIC EFFECTS ON HEART AND CIRCULATION

A64-80101

HYPOXIC EFFECT ON SIMULTANEOUS VISUAL CONTRAST IN MAN

HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

PULMONARY CIRCULATION AND CARDIAC OUTPUT OF RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE

HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART **FUNCTION** A64-80408

HYPOXIA-INDUCED CHANGES IN ACTIVITY OF TRANSAMINASES IN ORGANS AND BLOOD OF RABBITS -CARBOHYDRATE METABOLISM A64-80409

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

ADRENOCORTICOTROPIN AND ADENOSINE TRIPHOSPHATE EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS

NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD AS

RELATED TO VARIOUS LEVELS OF EXERCISE PLUS
HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS, AND
PURE OXYGEN BREATHING
A64-80633

PULMONARY BLOOD FLOW DURING EXERCISE IN COMPARISON TO RESPONSE TO HYPOXIA AND AMINOPHYLLINE

A64-80739

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON EXCITABILITY OF CAROTID SINUS CHEMCRECEPTORS UNDER DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

A64-80752

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPCXIA IN ENVIRONMENTAL CHAMBER

A64-80759

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL FACILITIES A64-80772

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

BLCOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NCRADRENALINE OF CATS DURING HYPCXIA, HYPERVENTILATION, AND HYPEROXIA A64-80926

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD

A64-80927

ADRENALECTOMY EFFECT IN RAT ADAPTED TO HYPOXIA ON RADIAL ACCELERATION TOLERANCE A64-80932

REVIEW OF SOVIET ADVANCES IN FIELD OF HYPOXIA A64-81058

CIRCULATORY RESPONSE TO HYPOXIA IN UNANESTHETIZED DOG WITH AND WITHOUT CARDIAC DENERVATION

A64-81061

PRIMARY CEREBRAL CORTEX POTENTIALS EVOKED BY ACOUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING HYPOXIA IN CAT A64-81083

DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

REVIEW OF PSYCHOLOGICAL EFFECTS OF HYPOXIA
A64-81146

VENTILATORY RESPONSE TO EXCESS CARBON DIOXIDE AND HYPOXIA AND RELATION TO DRUG EFFECT

CUMULATIVE EFFECTS OF HYPOXIA ON ELECTRICAL PHENOMENA OF COCHLEA IN CAT A64-81234

BLOOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPOXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL SYSTEM IN CAT A64-81245

AGE FACTOR IN ADAPTATION OF HUMAN TO HYPOXIA
A64-81247

CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249

HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF ERYTHROCYTES IN YOUNG AND MATURE DOG

A64-81250

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG A64-81251

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR
CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY
TO STIMULANT DRUG
A64-81252

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCORTICAL AREAS OF BRAIN IN RABBIT A64-81253 ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO HYPOXIA A64-81258

ADAPTATION AND PHYSIOLOGICAL RESPONSE OF HUMAN ORGANISM TO HYPOXIA AT HIGH ALTITUDE

A64-81259

MECHANISM OF INTERACTION OF RESPIRATORY CENTERS
UNDER VARIOUS TYPES OF HYPOXIA IN RABBIT AND CAT
A64-81260

REFLEX MECHANISM OF PERIODIC RESPIRATION IN HYPCXIA A64-81261

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND OXYGEN UPTAKE DURING HYPOXEMIA A64-81262

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF DXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN PRESSURE CHAMBER A64-81263

ION MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE OF X-RAYS A64-81267

DEGREE OF ACTOMYOSIN VISCOSITY IN MUSCLE CONTRACTION IN HYPOXIA IN RAT A64-81268

OXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLOOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN RAT A64-81270

ROLE OF THYROID GLAND AND SENSE ORGANS IN ADAPTATION TO HYPOXIA A64-81272

POLYGRAPHIC METHOD FOR MONITORING PHYSIOLOGICAL RESPONSE IN AUTOMATIC DIAGNOSIS OF HYPOXIA

A64-8128

PHYSIOLOGICAL RESPONSE AND ADAPTATION TO HYPOXIA IN MAN AND OTHER ORGANISMS A64-81286

HYPOXIA AND HYDROSTATIC PRESSURE EFFECTS ON CONDITIONED REFLEXES IN FISH A64-81288

ELECTROCARDIOGRAM OF SNAKES, COLUBER JUGULARIS AND PTIAS MUCOSUS, UNDER NORMAL CONDITIONS AND DURING HYPOXIA A64-81289

HYPOXIA AND EFFECT ON HEMATOPOIESIS IN MAN AND ANIMAL A64-81290

OXYGENATING ENZYMES IN BRAIN CORTEX AND MEDULA IN RATS ADAPTED TO HYPOXIA A64-81293

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT
WHILE BREATHING OXYGEN
JPRS-21984 N64-10388

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION
CHANGES IN BLOOD OF PILOTS
REPT.-63-2
N64-10433

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS
RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT
EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754

SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA
N64-14580

MEASUREMENT OF POST-MORTEM LACTIC ACID
CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA
N64-14586

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING

HYPEXIA N64-1458B ILLUMINANCE FLASHES TDR-2 N64-33459 PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIDACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA ILLUMINATION OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA SALINA CELLS CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-23657 N64-14594 ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED ILLUMINATIONS - PHOTOSYNTHESIS RATES PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN N64-33261 CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN ENCEPHALOPATHY N64-14597 ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE INFLUENCE OF HYPOXIA ON VARIOUS PATHOLOGICAL N64-33456 CHANGES - HYPOXEMIC LESIONS N64-14598 ILLUSION HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE SA ELEVATOR ILLUSION
SA OCULOGRAVIC ILLUSION
SA OCULOGYRAL ILLUSION SYMMETRIC LESIONS N64-14599 LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA SA OPTICAL ILLUSION EFFECT ON CEREBRAL NUCLEI N64-14601 CF IMAGERY PHYSIOLOGICAL EXPLANATION OF WATERFALL PHENOMENON BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND AND FIGURAL AFTEREFFECTS A64-80194 RESPIRATORY RATE OF RAT LIVER - HYPOXIA N64-14602 MOTION PERSPECTIVE - PERCEPTION OF VISTA MOTION A64-80578 CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT N64-14603 MOVEMENT AS FUNCTION OF BACKGROUND STIMULI GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA A64-80580 VISUAL DEPRIVATION EFFECTS ON IMAGERY N64-14604 EXPERIENCED BY DEAF SUBJECTS A64-80799 HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND TERRAIN EFFECT UPON PERCEIVED DISTANCE HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA A64-81330 VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOT ION ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN FPRC-1207 N64-25847 UNDER CXYGEN DEFICIENCY CONDITIONS - HYPOXIA FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC TLLUSTON FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING TR-10 N64-26278 MOUNTAIN CLIMBING - MEDICAL STUDY IMAGE N64-15202 SA RETINAL IMAGE IMAGE QUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY EFFECTS OF ALCOHOL AND HYPOXIA ON HETERCPHORIAS - REVIEW OF EXPERIMENTAL STUDIES N64-10530 AD-433129 N64-17924 RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES HYPOXIA - TREATMENT METHODS FOR HIGH ALTITUDE PULMONARY EDEMA AD-433546 IMAGE QUALITY AND MILITARY TARGET RECOGNITION PERFORMANCE ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA. ASPHYXIA, AND BURN SHOCK STIMULI APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL N64-24562 IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM JPRS-18126 TO HYPOXIA JPRS-25796 N64~28076 CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION
JPRS-25761 HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE NASA-CR-58526 N64~28838 EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING ADAPTATION OF CRGANISMS TO CHRONIC DXYGEN
STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE
AND HYPOXIA CHAMBER CONDITIONS N64-31539 RADAR AMRL-TDR-64-45 N64-28604 N64-31539 IMAGE INTENSIFIER ı S LASER

ICE

S WATER

IDENTIFICATION
FLASH AND REAL-TIME IDENTIFICATION OF HIGH

PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRADEVCEN-789-3

ILLUMINANCE
VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH

SENSORY DEPRIVATION AND LYSERGIC ACID DIETHYLAMIDE /LSD/ EFFECT-PHYSIOLOGICAL CONSIDERATIONS

METHODOLOGICAL ARTIFACT DUE TO DIRECTIONS IMPLICATED IN PRODUCTION OF SENSORY DEPRIVATION

VISUAL HALLUCINATIONS DURING SENSORY DEPRIVATION - PROBLEM OF CRITERIA

A64-80679

A64-80676

A64-80678

IMAGERY

CF HALLUCINATION

VISUAL DEPRIVATION EFFECTS ON IMAGERY
EXPERIENCED BY DEAF SUBJECTS A64-80799

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES
INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY
SENSATIONS A64-80897

IMMERSION

CF SUBMERSION
PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO
HEADWARD ACCELERATION
A64-80116

PHYSICLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

SPACE FLIGHT IMPLICATIONS OF PLASMA VOLUME RESPONSE TO WATER IMMERSION A64-80176

URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-80200

PARTIAL STATE OF WEIGHTLESSNESS, INDUCED IN RABBIT BY IMMERSION IN SODIUM CHLORIDE SOLUTION AND EFFECT ON BLOOD CIRCULATORY SYSTEM

A64-80961

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TOR-63-35 N64-33524

IMMUNITY

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH
TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD
SHIELDED COSMIC RADIATION
A64-80615

HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT AFTER BENZENE POISONING A64-80670

RADIATION EFFECT ON ANTIMICROBIAL IMMUNITY
N64-11830

IMMUNCLOGY

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGGEN IN NORMAL AND TUMOR-BEARING RATS UR-634 N64-10190

LOWERING THE IMMUNOBIOLOGICAL RESISTANCE OF ORGANISMS AS MANIFESTATION OF IRREVERSIBLE COMPONENT OF RADIATION SICKNESS

JPRS-19152 N64-11127

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS IMMUNCLOGY & RADIATION SICKNESS
JPRS-20040 N64-11354

IMMUNCLOGY OF ACUTE RADIATION INJURY

RADIATION EFFECT ON ANTIMICROBIAL IMMUNITY
N64-11830

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS N64-11832

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS ORINS-43 N64-16945

IMMUNOLOGICAL & PROTECTIVE FUNCTIONS OF ORGANISMS FTD-TT-62-1097/1&2 N64-17167

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNCLOGICAL AND INFECTION PROCESSES

N64-17168

N64-11829

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING N64-17169

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170

INFLUENCE OF PHYSICAL AGENTS ON PHYSICLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION

PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS
N64-17172

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854

EXPERIMENTAL BIOLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS FTD-T1-62-1164/16284 N64-23454

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF IONIZING RADIATION N64-30246

PREPARATION, SEDIMENTATION, ELECTROPHORETIC
PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY,
AND CRYSTALLIZATION OF TRIOSE PHOSPHATE
DEHYDROGENASE
N64-32048

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION
JPRS-27203 N64-33577

IMMUNDLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC VACCINATION JPRS-27281 N64-33961

IMPACT
HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE
FALL
CARI-63-15
N64-11995

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT,
WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE
AND RESTRAINT SYSTEM - BIBLIOGRAPHY
CARI-63-30 N64-22711

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER
N64-23763

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT PASSENGERS N64-24972

IMPACT ACCELERATION
HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT
EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA

HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION PATTERNS A64-13518

A64-12941

ASSESSING HUMAN RESPONSE TO IMPACT ACCELERATION, CONSIDERING PROTECTION AGAINST MECHANICAL EFFECTS
A64-23207

TOLERANCE AND INJURY OF HUMAN BODY TO IMPACT ACCELERATION A64-80320

EFFECT OF IMPACT VELOCITY ON LDH ISOENZYMES AND RELATED TISSUE DAMAGE IN CHIMPANZEE

A64-80847

IMPACT LOAD

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING
IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM

A64-27274

IMPACT SENSITIVITY
HUMAN BODY RESPONSE TO ACCELERATION, VIBRATION AND
IMPACT IN PRESENCE OF OTHER STIMULI
A64-28345

IMPACT TEST

MANNED IMPACT TESTS OF ACTIVE ELASTIC RESTRAINT
SYSTEM, USING PRESSURIZED AIRBAGS ABOUT THE HUMAN
AIAA PAPER 64-220

A64-20231

IMPACT TOLERANCE
IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE
AND CONTAINMENT
A64-14002

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS
A64-25551

A-136

LANDING IMPACT STRESS TOLERANCE OF ANIMALS IMMERSED IN WATER, NOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

A64-25597

TOLERANCE AND INJURY OF HUMAN BODY TO IMPACT ACCELERATION A64-80320

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTMARD TO HEADWARD
IMPACTS A64-80858

IMPEDANCE

SA ELECTRIC IMPEDANCE SA MECHANICAL IMPEDANCE CF RESISTANCE

MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE CHANGE A64-80541

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THURACIC IMPEDANCE SAM-TDR-63-99 N64-15745

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE SAM-TDR-64-5 N64-21803

IMPEDANCE MEASUREMENT

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE SAM-TDR-63-69

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION SAM-TER-63-100

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS SAM-TER-64-15

IMPEDANCE PNEUMOGRAPH SIGNAL CONDITIONER NASA-CR-56834 N64-25572

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART CUIPUT

SAM-TOR-64-23 N64-27493

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION SAM-TDR-64-10 N64-18918

IMPULSE

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN

IMPULSE NOISE

CF CONTINUOUS NOISE AUDITORY DISCRIMINATION OF IMPULSE AND CONTINUOUS NOISE A64-80021

ACCIDENT INCIDENCE AS RELATED TO JOB LEVEL A64-80612

INCINERATOR

S BURNER

INDEX

S PHYSIOLOGICAL INDEX

INDICATOR

- ANALYZER
- S DETECTOR

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS

INDUSTRIAL SAFETY

MODIFICATIONS TO EXISTING INDUSTRIAL HEALTH PROGRAMS INDICATED FOR RADIATION WORKERS

A64-26180

ACCIDENT INCIDENCE AS RELATED TO JOB LEVEL

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY JPRS-22154

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-127

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD

N64-12750

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS

N64-15677

SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY NY0-2762 N64-20485

ELECTRONICS AND INDUSTRIAL SAFETY FTD-TT-63-1200/164

N64-22160

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION FTD-TT-63-578/162 N64-22352

INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC THALLIUM AND ITS SALTS JPRS-25206 N64-23257

BERYLLIUM AND RELATION TO INDUSTRIAL SAFETY JPRS-27031 N64-33058

INDUSTRY

SA INDUSTRIAL SAFETY
ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCES IN
INDUSTRY - ERGONOMICS N6-N64-28104

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY JPRS-27063 N64-33344

INERT GAS CF RARE GAS

ATMOSPHERE CONSIDERATION FOR SUSTAINED SPACE FLIGHT NOTING USE OF AN INERT GAS FOR REGENERATING

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION

N64-17947

SURVIVAL OF MICE IN ABSENCE OF INERT GAS

N64-17953

ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS JPRS-25703 N64-27055

INERTIA

S INERTIAL FORCE

INERTIA MOMENT

S ANGULAR MOMENTUM

INERTIAL FORCE

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

INFECTION

CONTROL OF RODENT POPULATION AND POTENTIAL VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS A64-80913

INFECTION OF SPACECREW BY EXTRATERRESTRIAL **MICRODRGANISMS** A64-81026

INFECTION PROCESSES IN IRRADIATED ANIMALS -RADIATION EFFECT N64-11831 ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNCLOGICAL AND INFECTION PROCESSES

N64-17168

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS N64-30754 CASUALTY SITUATIONS

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL N64-31935 AAL-TDR-63-25

INFLATABLE STRUCTURE S BALLOON

INFORMATION

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS

N64-23759

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS N64-29947 USAPRO-TRN-145

INFORMATION THEORY

AMRI -TCR-63-89

CF COMMUNICATION THEORY INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION

IONIZING RADIATION EFFECT ON STABILITY OF GENETIC INFORMATION STORAGE AND TRANSMISSION MECHANISMS IN TERMS OF CYBERNETICS A64-2758 A64-27587

SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF A64-80013 INFORMATION THEORY

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL A64-80381

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS -CYBERNETICS JPRS-18372

INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS N64-11439

GNCSICLOGICAL NATURE OF INFORMATION MODELING N64-12144

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS ASD-TDR-63-946 N64-18826

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS N64-18828

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN CRGANISMS - CYBERNETICS JPRS-24816

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION NAVTRACEVCEN-1303-3 N64-26

INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY N64-27669 JPRS-26012

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION N64-30646 AD-601973

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY N64-33010 JPRS-26839

INFORMATION TRANSFER CRIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL NONLIVING MATTER IN RELATION TO INFORMATION AND ENERGY TRANSFER A64-80368 INFORMATION TRANSMISSION ISOLATION EFFECT ON HUMAN PERFORMANCE AND STABILITY OF DEVELOPED MABIT OF TRANSMITTING INFORMATION A64-25593

CUTANEOUS COMMUNICATION SYSTEM FOR TRANSMITTING A64-80019 LINGUISTIC INFORMATION

VISUAL SYSTEM - SYNCHRONOUS AND CONSECUTIVE INFORMATION PROCESSING

HUMAN INFORMATION TRANSMISSION WITH SEQUENCES OF SOUND PULSES AT DIFFERENT RATES AND USE OF BINARY

AGE, INFORMATION TRANSMISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

INFRARED RADIATION INFRARED SPECTRUM

INFRARED SPECTROPHOTOMETER NAKEU SPECIKUMULUMETEK INFRARED SPECTREPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS N64-22862

INFRARED SPECTRUM INFRARED SPECTRA OF MARS SUGGEST PRESENCE OF LIFE A64-80565

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE N64-22764 NASA-CR-50208

INGESTION ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES OF WATER BY PATIENTS NASA-TT-F-9114

RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN DOG INHALING OXYGEN 464-80753

EFFECT OF INHALING COLD AIR ON PULMONARY VENTILATION IN MAN A64-81125

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM N64-14750

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES N64-18409

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC N64-24615 CONTAMINANTS

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD N64-26550 AD-600077

INHIBITION

LF-13

UR-624

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY A64-80493 RESTRICTION ON DOG

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST N64-12515 STIMULATION AND INHIBITION

DIRECT-CURRENT EFFECT ON ULTRABOUNDARY N64-12725 INHIBITION IN DOGS

INHIBITING ACTION OF DECXYRIBONUCLEASE ON **ADENOVIRUSES** N64-12883

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N6 N64-12884

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252 N64-26711

INHIBITOR OF THYROID AND EFFECT ON ADAPTATION TO HIGH ALTITUDE IN DOGS A64-81280 SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS N64-12896

REACTION OF IRRADIATED PROTEIN RABICALS WITH RADICAL-REACTION INHIBITORS N64-12897

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHLORELLA N64-19470

SA BACK INJURY SA BRAIN INJURY

SA BURN INJURY

SA CRASH INJURY

SA EJECTION INJURY

CF PATTENT

NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANDXIA IN GUINEA PIGS A64-80218

EFFECT OF IMPACT VELOCITY ON LDH ISDENZYMES AND RELATED TISSUE DAMAGE IN CHIMPANZEE

A64-80847

STATISTICAL ANALYSIS OF VERTEBRAE BREAKING STRENGTH AND ENDPLATE FRACTURES RELATED TO ACCELERATION STRESS A64-81006

DISINTEGRATION OF YEAST CELL BY HIGH INTENSITY A64-B1174

BICLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY JPRS-21894 N64-10517

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PREDUCTS DURING RADIATION INJURIES JPRS-265CO N64-30742

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY JPRS-27289 N64-33975

INNER RADIATION BELT S VAN ALLEN BELT

INORGANIC COMPOUND

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INCRGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS JPRS-21628 N64-10119

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE NASA-TM-X-54008 N64-22 N64-22754

INSECT

DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN TROPICAL AREAS A64-81317

RESISTANCE OF INSECT METABOLISM AT ULTRALOW TEPPERATURE

JPRS-18218 N64-10752

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY JPRS-22107 N64-11272

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANDGASTER INSECTS N64-11680

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT

N64-11681

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT

N64-11684

VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION N64-14442

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN
INSECT WING DEVELOPMENT N64-15207 BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA

NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL N64-17241

IMPREGNATION, REPRODUCTION, AND DEVELOPMENT OF DRCSOPHILA UNDER CONDITIONS OF WEIGHTLESSNESS

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-2 N64-29093

INSECT ICIDE

EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC PHOSPHORUS INSECTICIDES JPRS-22450

N64-11874

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM CAR I-63-16

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021

INSPECTION S DETECTION

GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISONES OTSR-1

INSTRUCTION

METHODOLOGICAL ARTIFACT DUE TO DIRECTIONS IMPLICATED IN PRODUCTION OF SENSORY DEPRIVATION A64-80676

SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL AND HUMAN FACTORS RESEARCH IN EARTH ORBITING STATIONS A64-80850

PRIOR INSTRUCTIONS, TIME ORIENTATION, SEX, AND SKILL IN SCUBA DIVING AS RELATED TO TOLERATION OF SENSORY ISOLATION

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING PSYCHOLOGY JPRS-27166 N64-33485

INSTRUMENT

- ELECTROMAGNETIC INSTRUMENT METEOROLOGICAL INSTRUMENT RECORDING INSTRUMENT

INSTRUMENTATION

SA BIGINSTRUMENTATION

SA SATELLITE INSTRUMENTATION
SA SPACECRAFT INSTRUMENTATION
METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG

LAYKA DURING SOVIET SPACE FLIGHT

N64-11690

N64-16567

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT NADC-MA-6308 N64-12256

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS RSIC-87 N64-12997

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS AD-412814

IMPROVEMENT OF BIOCHEMICAL INSTRUMENTATION NASA-CR-51095 N64-22774 ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES N64-26092 FTD-TT-64-271/1828384

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL MEAPON DELIVERY TECHNIQUES NOTS-TP-3346 N64-26 N64-26235

ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS N64-31545

INSULATION

- S PRCTECTION
- TEMPERATURE CONTROL
- THERMAL INSULATION

TNSULIN

BICLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112

INTELLIGENCE

SA ARTIFICIAL INTELLIGENCE RORSCHACH PERFORMANCE AND INTELLECTUAL FUNCTIONING IN AGED INDIVIDUALS

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY A64-80779

PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED, AND OLD INDIVIDUALS OF SIMILAR NONVERBAL INTELLIGENCE

INTENSITY

SA LIGHT INTENSITY SA LUMINESCENT INTENSITY SA LUMINGUS INTENSITY

SA NOISE INTENSITY
MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT
PRIMARY NEURON LEVEL OF AUDITORY SYSTEM N64-11414 1005-18659

INTERACTION

S GAS-LIQUID INTERACTION

INTERFEROMETRY

S OPTICS

INTERNATIONAL LAW
HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS
RELATED TO PROTECTION UNDER FIRST GENEVA

INTERPLANETARY ELIGHT

RADIATION DOSES DUE TO VAN ALLEN BELTS, GALACTIC
COSMIC RAYS AND SOLAR COSMIC RAYS FOR
INTERPLANETARY FLIGHT
A64-271 464-27129

INTERPLANETARY SPACE

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SCLAR RADIATION ENVIRONMENT OF INTERPLANETARY A64-80C61 SPACE

ERPRESALION
SA PHOTOGRAPH INTERPRETATION
VIEWER INTERPRETATION AND CONNOTATION OF ABSTRACT A64-80634 VISUAL FERMS

SIMILARITY OF AUTOMATIC INTERPRETATION OF QRS
COMPLEX BY PATTERN RECOGNITION TECHNIQUE TO HUMAN
PATTERN RECOGNITION A64-8088

INTERSPACE

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARCIOVASCULAR SYSTEM STUDY N64-11356

INTERSTELLAR COMMUNICATION

MESSENGER PROBES TO SURROUNDING STARS IN OUR GALAXY TO DETERMINE EXISTENCE OF EXTRATERRESTRIAL

INTELLIGENT LIFE

INTERVERTEBRAL DISK INTERVERTEBRAL DISK DISEASE IN FLYING PERSONNEL

INTESTINE CF ABDOMEN FLUID EXCHANGE ACROSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

A64-10234

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG AD-429070

RESTORATIVE PROCESSES IN DUODENAL MUCOSA AFTER RADIATION EXPOSURE

JPRS-22276

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG A64-80

INTRACCULAR PRESSURE

INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF GLAUCOMA INCIDENCE IN AVIATORS A64-2 A64-20700

ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRACCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF LIGHT STIMULUS INTENSITY

A64-80374

HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLOOC VESSELS AND INTRAOCULAR PRESSURE 464-80908

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF VISION IN RETINAL ISCHEMIA A64-81016

IODIDE

- S SILVER IODIDE S SODIUM IODIDE

TOTAL FASTING EFFECT ON IODINE METABOLISM IN MAN

UTILIZATION OF INTRAVENCUS INJECTION OF 1131 IN RADIOGRAPHIC STUDY OF EFFECT OF AGING ON VENTRICULAR STRCKE AND PULMONARY CIRCULATION A64-81071

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGEN IN NORMAL AND TUMOR-BEARING RATS UR-634

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND N64-12436 IODINE-131 FROM RATS

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID N64-19097

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30 N64-30036

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN N64-30602 ANL-6887

IODOACETIC ACID

ANOXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYDANTOIN, TRIMETHADIONE, IGDOACETATE, AND A64-80800 RESERPINE

ION

SA ANION SA HEAVY ION SA MOLECULAR ION CF FREE RADICAL ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS ON HUMAN PERFORMANCE

A64-13999

ION CONCENTRATION

PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS INCLUDING DEVICES FOR MEASURING CONCENTRATION AND MORTH TTY

MODIFICATION OF SOCIUM TRANSPORT IN FROG SKIN BY DC FIELD EXPLAINS CEPOLARIZATION IN NERVE CELLS A64-24974

ION DENSITY S ION CONCENTRATION

ION EXCHANGE OF ISCTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE

N64-28C38

INCRGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER

CHLORICE COLUMN ANL-6887

N64-30602

TON EXCHANGE MEMBRANE

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE

UR-633

N64-10666

ION EXCHANGE RESIN

PLANT STUDY - EFFECT OF TEMPERATURE, MOISTURE AND LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION EXCHANGE RESINS AS MEDIA RADC-TCR-63-183

EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX N64-14590

EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL N64-14591

WATER & ICH SHIFTS IN CENTRAL NERVOUS SYSTEM OF N64-14593 FRCG - MCRPHOLOGY

KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES NACC-MA-6325 N64-15C51

PASSIVE ION FLUX THROUGH AXON MEMBRANES

N64-29538

JPRS-19278

IONIC PROPELLANT

CONTRATICA

SA ATMOSPHERIC IONIZATION SA IONIZING RADIATION PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS N64-32781

IONIZATION COEFFICIENT

IONIZATION

IONIZED GAS

DEGREE OF ABSORPTION OF IONIZED AIR IN UPPER RESPIRATORY TRACT OF MAMMAL AND BIRD A64-80895

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC N64-13139 MOLECULES

IONIZING RACIATION

AEROSPACE MEDICINE FOUNDATION AND PRINCIPLES, CONSIDERING WEIGHTLESSNESS AND HIGH ENERGY TONTZING RADIATION

IONIZING RACIATION OPERATIONAL HAZARDS OF A64-25786 SUPERSONIC TRANSPORT

IONIZING RADIATION EFFECTS ON ASTRONAUT ORGANISMS, NOTING BIOLOGICAL PROTECTION AND CHARACTER OF A64-28455 RADIOBIOLOGICAL INJURIES

CHEMICAL PROTECTION OF THE BODY AGAINST IONIZING

COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL A64-80270 TRRADIATION

RADIATION RECOVERY IN MAN - EVALUATION OF EXPERIMENTAL AND CLINICAL DATA A64-80336

GROWTH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY

SUBCELLULAR CHEMICAL AND PHYSICAL CHANGES IN BIOLOGICAL SYSTEMS INDUCED BY IONIZING RADIATION A64-80825

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND A64-80911 PROBLEMS OF PROTECTION

PATHOLOGICAL EFFECT OF ACCELERATION, IONIZING RADIATION, AND WEIGHTLESSNESS DURING MANNED SPACE A64-81097

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

464-81121

ICNIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF MITOSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-81308

EFFECT OF IONIZING RADIATION ON HEREDITARY MOLECULAR STRUCTURES - BIBLIOGRAPHY N64-10121 JPRS-21754

N64-11066

CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING RADIATION IN MAMMALS JPRS-18918 N64-10647

IONIZING RADIATION AS A FOOD PRESERVATIVE N64-10694

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION JPRS-18479 N64-10769

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION JPRS-18020 N64-11023

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS JPRS-19066 N64-11063

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTBOOK

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM N64-11067 JPRS-19284

RADIOSENSITIVITY OF ORGANISMS TO IONIZING RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS JPRS-19363

IGNIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE UCR1-11005

ICNIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION N64-11136 JPRS-20317

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION JPRS-18938 N64-11317

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIDELECTRIC CURRENT IN MUSCLES N64-11346 JPRS-18760

IONIZING & X-RAY RADIATION EFFECTS ON MICE -GLANDS & PROTECTIVE SUBSTANCES N64-11355 JPRS-20421

BLOOD LEUKOCYTE CHANGES IN PERSONS DUE TO IONIZING RADIATION UNDER VARIOUS OCCUPATIONAL CONDITIONS

QPR-51

JPRS-22122 N64-11357 BNL-854/T-340/ N64-21591 IONIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM EFFECT OF IONIZING RADIATION ON RETINA AND OTHER N64-11607 PHOTOSENSITIVE SYSTEMS FTD-TT-63-163/18284 EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD EFFECTS OF IONIZING RADIATION ON METABOLIC PROCESSES N64-11609 FTD-TT-62-1575/182 N64-22390 IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL JPRS-22520 N64-12145 DOSES OF IONIZING RADIATION NASA-TT-F-8851 BICLOGICAL EFFECT OF IONIZING RADIATION ON RATS JPRS-19163 N64-12432 LETHALITY OF EMBRYONIC CELLS IN DROSOPHILA AFTER VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHT DUE TO IONIZING RADIATION LEUKOSIS IN MICE DUE TO IONIZING RADIATION N64-12724 NASA-TT-F-8898 N64-23051 SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED RACIATION BY RADICAL-REACTION INHIBITORS N64-12896 BIBLIOGRAPHY SRB-63-13 N64-23365 PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING RADIATION EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES TIC-19206 N64-12968 N64-23761 BICCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IGNIZING RADIATION N64-23769 INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES STABILITY OF HETEROGENECUS DEOXYRIBONUCLEIC ACID WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN TO IONIZING RADIATION JPRS-25282 MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-24487 N64-13502 DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS IONIZING RADIATION EFFECT ON THIOPHOSPHATE N64-25313 OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-135C3 IONIZING RADIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS TISSUES USING ICNIZING RADIATION FTD-TT-63-661/162 N64-26725 JPRS-22915 PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND RADIATION SHIELDING OF HUMAN BEINGS FROM SOLAR BIOLOGICAL MUTATION FLARE, RADIATION BELT, AND GALACTIC COSMIC IONIZING RADIATION DURING SPACE FLIGHTS N64-27799 JPRS-23306 N64-15327 IONIZING RADIATION EFFECT ON NERVOUS SYSTEM EFFECTS OF MASSIVE COSES OF IONIZING RADIATION FTD-TT-63-582/182 N64-28448 UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES DASA-NWER-03-008 N64-15993 CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST IONIZING RADIATION N64-29074 EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM N64-16645 AD-602135 N64-29673 PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF OF RADIATION MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL JPRS-23426 N64-16902 AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF QPR-52 N64-29872 CELL DIVISION UNDER INFLUENCE OF IONIZING N64-16904 REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF TONIZING RADIATION N64-30246 CELL DAMAGE IN RADIATION REACTION OF ANIMAL **ORGANISM** N64-16906 LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION. AND PATHOGENESIS OF RADIATION TUMORS KINETIC REGULARITIES OF PRIMARY REACTIONS AND JPRS-26532 CHEMICAL PROTECTION IN RADIATION DAMAGE NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION **CXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES** USNRDL-TR-670 N64-31175 IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BICLOGY GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON JPRS-23945 ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED N64-182C6 TISSUE IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS JPRS-26956 AND FCCD - BOTANY JPRS-24187 N64-18968 EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS SYSTEM IN VIVO AND AT CELLULAR LEVEL IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, NASA-CR-58974 N64-33095 THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION

JPRS-27203

N64-33577

N64-20181

BICLOGY OF AGING USING IONIZING RADIATION STUDIES

IONOSPHERE

ATMCSPHERE

S UPPER ATMOSPHERE

IONOSPHERIC PROPAGATION S WAVE PROPAGATION

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

IRON COMPCUND S IRON OXIDE

IRON METECRITE

MICROBICLOGICAL ANALYSIS OF IRON AND STONE METEORITES, NOTING ABILITY OF BACTERIA TO PENETRATE INTO CENTRAL REGIONS A64-18628

IRON CATOR

LIMONITE ENVIRONMENT MAY PROVIDE ECOLOGICAL BASIS FOR RESPIRATORY AND PHOTOSYNTHETIC MARTIAN

TRON 59

COMPOUNDS USED FOR ELIMINATION OF RADIDACTIVE IRCN-59 IN ORGANISM N64-10038

TOXICCLOGY OF RADICACTIVE IRON FTD-TT-64-599/1

N64-33943

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS

EFFECT OF IRRADIATION ON BICLOGICAL SUBSTANCES - POST-BURNING CHANGES IN METABOLISM JPRS-22022 N64-10856

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID COMTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS JPRS-19355 N64-11217

BICCHEMICAL CHANGES RESULTING FROM IRRADIATION HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA N64-11224

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING JPRS-20037

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION

N64-11524

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION JPRS-22082 N64-12886

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION

N64-12888

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64 N64-12897

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS SAM-TDR-63-55 N64-13078

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYNPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS JPRS-22778 N64-13230

COBALT-60 BULK GRAIN IRRADIATION FACILITY N64-19091

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150 CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE JPRS-24896

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC UCRL-11387, SUPPL. N64-30782

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD N64-33993

ISCHEMIA ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRAOCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF LIGHT STIMULUS INTENSITY

A64-80374

DISTURBANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-

HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE -SYMMETRIC LESIONS N64-14599

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL **ISCHEMIA** UCLA-12-523 N64-21215

ISCLATION

SA SOCIAL ISOLATION DATA FROM ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR STUDIES AND PERSONAL REPORTS ON EFFECTS OF ISOLATION, SENSORY DEPRIVATION AND EXTREME HAZARD

SENSORY DEPRIVATION - ANALYSIS OF ELEMENTS LEADING TO SYMPTOM FORMATION

SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE A64-80345

SENSORY DEPRIVATION - HYPOTHESES OF MENTAL DETERIORATION AND MENTAL FACILITATION

A64-80346

A64-80513

SENSORY DEPRIVATION STUDIES CONDUCTED AT PRINCETON REVIEWED IN DETAIL A64-80378

SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF EFFECTS ON HUMAN AND ANIMAL BEHAVIOR A64-80382

PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL AND PARTIAL PERCEPTUAL ISOLATION

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI JPRS-24961 N64-21288

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTD-TT-63-1015/18284 N64-21938

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISCLATION N64-23867

ISOTOPE

S TRITIUM

IVUNA METEORITE NATURE OF ORGANIZED ELEMENTS IN ORGUEIL AND IVUNA METEORITES A64-80449

J-BAND DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND ANALYSIS N64-22780 NASA-CR-56520

DETECTION OF PROTEIN IN TRACE AMOUNTS BY J-BAND N64-22782 NASA-CR-56522

BIBLICGRAPHY OF AEROSPACE MEDICINE IN JAPAN A64-80166

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED A64-80717

SEAT ESCAPE SYSTEMS FOR JET AIRCRAFT USING SOLID FUEL RCCKET MOTOR IN COMBINATION WITH STANDARD A64-80838 CATAPULT

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE AD-432C86

JET FLIGHT

FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS N64-16544 JPRS-23607

IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON A64-19143 PILOT

JET NOISE EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE AD-432086

JET PILOT FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING

JET CREW FATIGUE EMPHASIZING EFFECTS OF VISUAL DIFFICULTIES, NOISE, OZONE CONTAMINATION, COLDS

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULENCE ON JET AIRLINE PILOTS N64-31666

JOINT /BICL/ DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND MUSCLES BY EXERCISE A64-804

JOINT MOTION MEASURING METHODS AS APPLIED TO HEAD A64-81129 MOVEMENT

KEROSENE

FUEL KEROSENE POISONING

PETROLEUM

KEROSENE POISONING KERDSENE AND OTHER HYDROCARBON POISONING IN RATS

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION N64-32144 APR-2

CF RENAL CALCULUS
CF RENAL FUNCTION CF URINE

HYPOTHERMIC EFFECT ON GLYCOLYSIS AND OXYGEN

CONSUMPTION IN DOG KIDNEY

464-80569

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN 464-80879

DIURNAL MITOTIC RHYTHM IN TISSUE CULTURES OF A64-80881 MONKEY KIDNEY

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY N64-13462

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION CAR 1-63-22 N64-16574

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY FUNCTION OF KIDNEYS IN BURN INJURY N64-27324 JPRS-25928

KIDNEY DISEASES WHICH PREVENT PILOT TRAINING A64-80804

KINEMATICS S BODY KINEMATICS

ASYMMETRY IN MUSCULAR SENSE OF WEIGHT IN HUMAN

KINFTIC THEORY CF DIFFUSION KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES N64-15051 NADC-MA-6325

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS SA CHEMICAL KINETICS N64-23760

KINETICS OF JCINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24: N64-24341

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS
USING RADIOACTIVE ISOTOPES N64-30395

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS N64-30623 BNL-857/T-341/

KLEBSIELLA EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE N64-18874 AAL-TDR-63-9

LABORATORY

S ASTRONOMICAL OBSERVATORY
S TEST FACILITY

UNATURY APPARATUS FOR VISUAL SIGNALLING Laboratory apparatus for Visual Signalling Investigation of Motor Reaction effectiveness N64-30323

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS FDL-TDR-64-67, PT. I N64-3192 N64-31927

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO A64-80031 ACCELERATION

SPATIAL ORIENTATION IN MAN VIA VISUAL, KINESTHETIC, LABYRINTHINE, AND CUTANEOUS SENSATIONS A64-80445

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT

HISTOLOGICAL ANALYSIS OF LABYRINTH PIGMENTED CELLS — MELANIN CONTAINING MACROPHAGES

A64-80977

HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASCUND ON LABYRINTH AND TEMPORAL BONE 464-80979

PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS, AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD PURE TONES A64-81161

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABORINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS AMRI -TDR-64-47 N64-28562

LACTATE

OXYGEN UPTAKE AND BLOOD LACTATE RELATIONSHIP IN SUBJECTS OF DIFFERENT SOMATOTYPE DURING EXERCISE A64-80249

PRCLONGED ANDXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHCSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS A64-80814

HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND OXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN

CARDIAC OUTPUT AND DXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS UR-635 N64-10616

LACTIC ACID

ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN UNANESTHETIZED DOGS AT 21,000 FEET

BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND
CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO
CENTIMETER WAVES FOR 24 HOURS
A64-80719

BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE DURING STRENUOUS EXERCISE IN MAN

A64-80735

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO OXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

MEASUREMENT OF POST-MORTEM LACTIC ACID CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA N64-14586

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE SAM-TDR-64-2 N64-18886

LAG

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY NASA-CR-83

LANDING

SA LUNAR LANDING SA TAKEOFF AND LANDING LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER N64-23763

LANDING AID S AIRPORT

LANDING SIMULATION CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMOTE CONTROLLED LUNAR LANDING SIMULATION

A64-27808

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS NASA-TN-D-2251 N64-17993

LANGUAGE

CF CULTURE CF SPEECH

TAXONOMY VERSUS MENTALISM IN LINGUISTICS AND THEORY OF LANGUAGE N64-32947

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING **PSYCHOLOGY**

JPRS-27166 N64-33485

LASER

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE N64-14149

PROTECTION OF HUMAN EYE FROM LASER BEAM TR-1153 N64-24092

LASER OUTPUT

BIOLOGICAL EFFECT OF LASER RADIATION ON ANIMAL TISSUES A64-20638

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE TO LASER BEAM IRRADIATION A64-22695

LAW

SA INTERNATIONAL LAW CF WEBER-FECHNER LAW TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICO-LEGAL ASPECTS A64-81160

LEACHING

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY BM-RI-6423 N64-18987

LEAD COMPOUND

TETRAETHYLLEAD INTOXICATION DIAGNOSIS

A64-80196

LEAD POISONING

PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE POISONING IN RABBIT A64-81052

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS A64-81085

TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS A64-81101

DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS JPRS-26888 N64-33854

I FADER SHIP

LEADERSHIP AS RELATED TO PSYCHOPHYSIOLOGICAL ACTIVATION OF GROUP MEMBERS DURING CONFINEMENT A64-81205

LEARNING

CF CONDITIONED RESPONSE

CF MEMORY

CF TRAINING

TRANSFER OF TRAINING FROM SIMULATED TO REAL CONTROL SITUATION A64-12933

GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS AFFECTED BY CONFINEMENT AND EXERCISE

A64-80067

VISUAL PERCEPTION STUDIES ANALYZED FOR GENERALIZATION TOWARD THEORY OF HUMAN PERCEPTION A64-80379

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL IN MAN A64-80381

SUBLIMINAL PERCEPTION - LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY A64-80571

CUTANEOUS CODE TRANSFER TO DIFFERENT LOCI

CF VISUAL ACCOMMODATION

FILTERS AND STRUCTURES NAVTRADEVCEN-IH-14

AGAINST BALLISTIC MISSILES

OPTICAL LENSES AND PROTECTION OF RABBIT EYE

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE

LEUKEMIA A64-80584 OCCUPATIONAL CHARACTER OF LEUKEMIAS IN PERSONS A64-80366 HYPNOTIC CONTROL OF COMPENSATORY TRACKING WITH NORMAL AND REVERSE COMPATIBILITY UNDER DIFFERENT EXPOSED TO BENZENE IONIZING RADIATION EFFECT ON DEVELOPMENT OF A64-80713 STATES OF AROUSAL LEUKEMIA IN MAN JPRS-22520 EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES LEUKOSIS IN MICE DUE TO IONIZING RADIATION A64-80746 N64-12724 SUPPLEMENTARY FEEDBACK IN ROTARY PURSUIT TRACKING PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM RATE OF LEARNING ON PURSUIT ROTOR TASK AT CONSTANT N64-15398 WORK-REST RATIO WITH VARYING WORK AND REST PERIODS ARCH-20 LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-808 JPRS-26532 LEUKOCYTE A64-80834 MICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION
A64-MOTOR SKILL ACQUISITION AFFECTED BY DELAY OF A64-25543 A64-81140 KNOWLEDGE OF RESULTS LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND, PROSTATE GLAND, AND WHITE BLOOD CELL PSYCHOMOTOR TASK PERFORMANCE WITH PERFECT RECALL AFTER FIFTY WEEKS OF NO PRACTICE A64-80566 LEARNING AND EFFECT ON PURSUIT TRACKING TASK WITH LEUKOCYTE AND BONE MARROW PROLIFERATION CHANGES COMPLEX AND SIMPLE INPUT A64-81189 A64-80650 DURING STARVATION TRANSFER IN PERCEPTUAL LEARNING FOLLOWING STIMULUS PREDIFFERENTIATION A64-81200 ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC LEARNING SYSTEM - TAUGHT BY HUMANS, AUTCMATICALLY
TAUGHT, & SELF-TAUGHT
JPRS-21770
N64-1020 A64-80841 FIFLDS SEASONAL VARIATION OF ADRENAL CORTEX, LEUCOCYTES, AND REACTION TO ENVIRONMENTAL TEMPERATURE N64-10204 A64-80899 SELF-LEARNING AS BASIC STEP IN DESIGN OF SELF-N64-11039 ADJUSTING SYSTEMS LEUKOCYTE, CORTICOSTEROID, AND CATECHOLAMINE RESPONSE TO CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT A64 EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS N64-15518 BLOOD CELL CHANGE IN ATHLETES DURING EXERCISE AND SAUNA BATH AND RELATION TO ADAPTATION IN SPORTS AMRI -TDR-63-122 PSYCHOLOGY - TAXONOMY OF LEARNING TASK CHARACTERISTICS N64-19815 HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF PERIPHERAL BLOOD AND HYPOPHYSIS-ADRENAL SYSTEM IN MAMMALS AND MAN A64-8 AMRL-TDR-64-2 MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY A64-81282 AD-600474 LEVARTERENOL BITARTRATE
PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE,
VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION NAVTRACEVCEN-789-2 HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND A64-81002 HYPERTENSIVE SUBJECTS EFFECTIVENESS OF VARIOUS PRESENTATION MCDES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT SOLVING N64-30499 AD-439648 LEARNING SYSTEM MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LIFE SA EXTRATERRESTRIAL LIFE LEARNING SYSTEMS CF BIOGENESIS PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE ORIGIN OF LIFE RELATED TO FORMATION OF MACROMOLECULES IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL A64-80807 THEORIES ABOUT CREATION OF LIFE FORMS N64-30321 JPRS-26014 N64-10650 JPRS-19231 ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING RROCESSES AND PROBLEM SOLVING N64 LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY N64-30324 N64-16353 LEG ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN EFFECTS ON LIFE PROCESSES N64-19236 TI0-3098/INDEX/ SUPINE POSITION A64-80079 SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS -

CHEMICAL EVOLUTION AND ORIGIN OF LIFE

EVOLUTION OF INCRGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE

N64-22754

EVOLUTION OF LIFE

NASA-TM-X-54008

A64-81045

N64-28902

NASA-RP-233

N64-25970

LIFE DETECTION ON MARS, USING GAS CHROMATOGRAPHY
A64-13439

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS

A64-24949

EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-24950

BIOCHEMICAL CHARACTERISTICS OF LIFE ON MARS TO DEVELOP DESIGN OF MARTIAN BIOLOGICAL EXPERIMENTS A64-24951

MARTIAN LIFE /MICROORGANISMS/ DETECTION AND IDENTIFICATION FROM SPACE PROBE CHEMICAL, MORPHOLOGICAL AND PHYSIOLOGICAL EVIDENCE

A64-28342

PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED
ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE,
LIFE FORMS, AND SOIL STUDY
A64-80860

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS NASA-CR-55655 N64-16109

BACTERIAL CELL DIVISION IN RELATION TO CXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION
NASA-CR-53734

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE NASA-CR-52217 N64-20682

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-2

NASA-CR-55511 N64-22755
DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET

SPECTRCPHOTOMETRY
NASA-CR-50815
N64-2276

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS
MASA-TM-X-50806 N64-22773

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL NASA-CR-56523 N64-22783

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN
PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS NASA-CR-58531 N64-28939

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES

NASA-CR-58500 N64-29202

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE

N64-31026

LIFE SCIENCE
BICASTRONAUTIC RESEARCH CONDUCTED BY U.S. AIR
FORCE
A64-12986

ULTRAHIGH VACUUM EFFECTS ON MICROORGANISMS
A64-18740

MINIMUM FREE LIVING REPLICATING SYSTEM REQUIREMENTS

A64-18813

SYMPOSIUM ON PHYSIOLOGICAL EFFECTS OF HIGH ALTITUDE AT INTERLAKEN, SWITZERLAND IN SEPTEMBER 1962 A64-23253

LIFE SCIENCE RESEARCH REQUIRED TO ACHIEVE INTEGRATED MAN-MACHINE SYSTEMS A64-24401

BIBLIOGRAPHY ON COMPUTERS IN LIFE SCIENCES
A64-80210

STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER
JPRS-21806

COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY

N64-17491

CONTROL SYSTEMS IN ORGANIC NATURE - UNDERSTANDING LIFE PROCESSES N64-29742

LIFE SUPPORT SYSTEM
CF CLOSED ECOLOGICAL SYSTEM
CF PRESSURIZED CABIN
CF PRESSURIZED SUIT
NECESSITY OF INTEGRATING MAN-MACHINE RELATIONSHIPS
PROPERLY INTO ADVANCED AEROSPACE SYSTEMS

WEIGHT AND STORAGE FACTORS INVOLVED IN A MANNED MARS MISSION EMPLOYING FULLY REGENERATIVE LIFE-SUPPORT SYSTEMS A64-10113

METABOLIC CONSEQUENCES AND PHYSIOLOGICAL EFFECTS
OF EXTENDED SPACE MISSIONS FOR WHICH THERE IS NO
CAPABILITY FOR RE-SUPPLY OR CREW ROTATION

SPACECRAFT AND SATELLITE PROGRAMS REVIEWING RECENT
MAJOR FLIGHTS AND EMPHASIZING ADVANCES IN LIFE—
SUPPORT SYSTEMS

ATMOSPHERE CONSIDERATION FOR SUSTAINED SPACE FLIGHT NOTING USE OF AN INERT GAS FOR REGENERATING OXYGEN A64-11428

BIOLOGICAL REGENERATION IN CONFINED ENVIRONMENT OF SPACECRAFT, EMPHASIZING CLOSED CIRCUIT SYSTEM FOR REGEMERATING RESPIRATORY GASES DURING LONG SPACE JOURNEYS

A64-11432

INTERRELATION OF ADDED WEIGHT EFFECTS AND SAFETY FACTORS IN MANNED SPACECRAFT SHOWING NEED FOR SUBSYSTEMS REQUIRING MINIMUM CREW

A64-11454

LIFE SUPPORT SYSTEMS IN SPACE ENVIRONMENT EXAMINED, PROPOSING NORMAL SEA-LEVEL ENVIRONMENT FOR EARLY MANNED SPACE OPERATIONS

A64-11456

LINEAR PROGRAMMING FOR OPTIMIZATION OF A ONE MAN-DAY, LIFE SUPPORT SYSTEM WITH SUPPLY AND WASTE STORAGE A64-11761

ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS INVOLVED IN SELECTION AND VALIDATIONS OF ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND APOLLO MISSIONS A64-13517

HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS

A64-13522

MAN AND THE SPACE ENVIRONMENT WITH RESUME OF PRESENT KNOWLEDGE A64-14092

ENVIRONMENTAL CONTROL, REPLENISHMENT AND STABILITY OF SPACE LIFE SUPPORT SYSTEM WITH PRIMARY CONSIDERATION GIVEN TO DXYGEN-CARBON DIDXIDE AND THE WATER CYCLE AIAA PAPER 63-65

BIOLOGISTIC SPECIFICATIONS AND ENGINEERING CONSTRAINTS ASSOCIATED WITH OPTIMUM LIFE SUPPORT SYSTEM TO SATISFY 30-, 60- AND 100-DAY MANNED ORBITAL SPACE MISSIONS AIAA PAPER 63-164

WATER RECYCLING SUBSYSTEM FOR SPACE STATION, USING ACTIVATED CARBON, ION EXCHANGE RESIN AND FINE PORE FILTER AICE PAPER 8C A64-17321

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

A64-18256

PROJECT APOLLO SPACE SUIT AND LIFE SUPPORT EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL INPUT AND SOURCES A64-18257

STEADY STATE BIOENERGETICS CONSIDERED IN ATMOSPHERIC AND ENVIRONMENTAL CONTROL OF MANNED SPACE VEHICLES A64-18425

WATER RECOVERY AND HUMAN WASTE DISPOSAL SYSTEMS FOR EXTENDED SPACE MISSIONS A64-18624

STCRABLE PROPELLANT UTILIZATION EXTENDED TO INCLUDE ATMOSPHERE REPLENISHMENT, THERMAL CONTROL AND WATER AND POWER PRODUCTION AIAA PAPER 64-213 A64-18877

ALKALI AND ALKALINE EARTH SUPEROXIDES USED IN NONREGENERATIVE AIR REVITALIZATION SYSTEMS FOR SPACE MISSIONS A64-19134

LIFE SUPPORT SUBSYSTEMS CONSIDERING FOOD, WATER, WASTE, ATMOSPHERIC AND THERMAL CONTROLS

A64-20257

AMERICAN AND SOVIET APPROACH TO MANNED SPACECRAFT COMPARED, NOTING LIFE SUPPORT PROBLEMS AND PRCTECTION AGAINST SPACE ENVIRONMENT AIAA PAPER 64-515

HIGHER HEAT CONDUCTIVITY RESULTING FROM
SUBSTITUTION OF HELIUM FOR ATMOSPHERIC NITROGEN IN
SPACESKIP CABINS A64-21118

OXYGEN MANAGEMENT, TOXICITY AND ENVIRONMENT SELECTION FOR MANNED SPACECRAFT

A64-21182

ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT LIFE SUPPORT SYSTEMS A64-23200

CLCSED EMVIRONMENT LIFE SUPPORT SYSTEMS DEPENDENT ON PROPULSION SYSTEMS AND MISSION REQUIREMENTS A64-24402

DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE USED FOR SUPPORT OF HUMANS IN SPACE

A64-24976

LIFE SUPPORT SYSTEMS FOR ARTIFICIAL ATMOSPHERES IN SPACECRAFT CABINS A64-25573

REUTILIZATION OF HUMAN WASTE MATERIALS IN SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

WATER REGENERATION METHODS FOR SPACECRAFT LIFE SUPPORT SYSTEMS A64-25577

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE

INCREASED TO OBTAIN MORE OXYGEN IN AIR
REGENERATION SYSTEM A64-25609

BICLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT SYSTEMS A64-26917

SELF-SUSTAINED LIFE SUPPORT SYSTEM DEVELOPED ON BASIS OF SYMBIOSES EXISTING BETWEEN ANIMALS AND PLANTS AND BETWEEN AUTOTROPHIC AND HETEROTROPHIC PLANTS

A64-27028

PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT LOCPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL SUIT A64-27606

LIFE SUPPORT MANAGEMENT WITHIN SPACECRAFT DURING EMERGENCY THAT MAY REQUIRE RESCUE

ENVIRONMENTAL CONTROL FOR SPACECRAFT INCLUDING CRYOGENIC GAS STORAGE, TEMPERATURE CONTROL, ATMOSPHERE CONTROL AND WATER MANAGEMENT

A64-28087

MANUALLY OPERATED PELLET FEEDER FOR PRIMATES IN SPACE FLIGHT A64-80188

PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA BIOSATELLITE PROGRAM A64-80261

LIFE SUPPORT SYSTEMS FOR FUTURE ORBITAL AND EXPLORATORY MISSIONS FOR PERIODS UP TO A YEAR A64-80563

EXPLORATION OF MOON - PHYSICAL CHARACTERISTICS OF MOON, LIFE SUPPORT SYSTEM IN ESTABLISHING MOON COLONY AND FLIGHT TO MOON A64-80665

MAN IN SPACE - FOOD, WATER, ENVIRONMENTAL REQUIREMENTS, WASTE UTILIZATION AND LIFE SUPPORT SYSTEMS A64-80788

CAPILLARY ACTION AND DIELECTROPHORESIS CONVERTERS FOR OVERCOMING RANDOM ORIENTATION OF LIQUID OXYGEN FOR BREATHING SYSTEM DURING WEIGHTLESSNESS A64-80835

LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE DISPOSAL, OXYGEN PRODUCTION, AND FOOD SUPPLY A64-81223

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT AMRL-TDR-63-82 N64-12214

BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE

N64-13/14

N64-22784

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716

LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE EXPLORATION MISSIONS
NASA-RP-135
N64-15843

LIFE SUPPORT IN SPACE ENVIRONMENT
NASA-TM-X-51744

VETEN

SPACE SUIT - LIFE SUPPORT SYSTEM
NASA-TT-F-8852 N64-2294

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23757

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS N64-23768

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774

LIFE SUPPORT SYSTEMS - ANNOTATED BIBLIOGRAPHY

AID-P-64-33 N64-24100
PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM
N64-29722

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT

SUBMARINES OR SPACECRAFT

SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS N64-30712

APCLLC PORTABLE LIFE SUPPORT SYSTEM

N64-30725

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS -SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS -SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY ATC-P-64-53

INCRGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE SUPPORT IN SPACECRAFT AMRL-TER-64-30 N64-32626

RESPIRCMETER AND LIFE SUPPORT SYSTEM FOR POTATO SPECIMEN IN SPACE ENVIRONMENT NASA-CR-58945 N64-33189

1 TEES DAW

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION

N64-11436

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS SAM-TDR-63-55

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION ON HARFALIAN 1155UES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN AD-430559 N64-16645

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/18284 N N64-19220

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS N64-25111

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN AAL-TDR-63-17 N64-31829

LIFTING BODY MEDICAL AND BIOENGINEERING PROBLEMS IN LIFTING BODY DESIGN INCLUDING VISIBILITY AND CONTROL

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FL IGHTS NASA-TM-X-56005 N64-22440

LIGHT

SA ULTRAVIOLET LIGHT HUMAN CONDITIONED REFLEX POTENTIAL EVOKED BY COMBINED STIMULI OF SOUND AND LIGHT MONITORED BY ELECTROENCEPHALOGRAPH A64-81082

COMPARATIVE BALLISTOCARDIOGRAPHIC INVESTIGATIONS OF REACTION TO COLORED LIGHT STIMULI IN MAN A64-81091

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION. N64-31458 LIGHT ABSORPTION OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS.
NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND STRUCTURE

LIGHT ADAPTATION PUPIL RESPONSES TO LIGHT FLASHES VARYING IN DURATION AND INTENSITY A64-12928

ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRACCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF LIGHT STIMULUS INTENSITY

A64-80374

ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS A64-80803

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING VISUAL STIMULI A64-80 A64-80925

LIGHT AIRCRAFT DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT A64-13520

LIGHT AMPLIFIER S LASER

LIGHT DURATION PUPIL RESPONSES TO LIGHT FLASHES VARYING IN DURATION AND INTENSITY A6 A64-12928

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY MICROORGANISM A64-80855

LIGHT INTENSITY PUPIL RESPONSES TO LIGHT FLASHES VARYING IN DURATION AND INTENSITY A6

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETWEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH A64-13511

PILOCARPINE MIOSIS AS CHORIORETINAL BURN PROTECTION FROM HIGH INTENSITY LIGHT TO STUDY VISUAL ACUITY A64-22056

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND DRGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433

LIGHT SCATTERING DETERMINATION USING LIGHT SCATTERING AT LARGE **ANGLES** N64-19783

LIGHT SOURCE BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM

EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES ON RETINAL SENSITIVITY REPT.-1549-TDR-1 N64-28 N64-28288

LIGHT TRANSMISSION CF ILLUMINATION CF REFRACTION CF VISIBILITY DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS -DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM NASA-CR-56528 N64-22789

LIGHTING SA AIRCRAFT LIGHTING DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING
A64-8 A64-80591

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION SERL-64-5 N64-29906 LINE S TETHERLINE

LINEAR ACCELERATOR
OTCLITHIC STIMULUS EFFECT ON DISORIENTATION AND
TROUBLESOME ILLUSIONS IN HUMAN STUDIED, USING
LINEAR ACCELERATION OR ORBITING WITHOUT
ACCELERATION
A64-25554

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION NASA-CR-59180 N64-3315

LINEAR ENERGY TRANSFER /LET/
HAZARCS OF EXPOSURE TO PROTON RADIATION DURING
SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS
AND LINEAR ENERGY TRANSFER
NASA-CR-55189 N64-131

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM N64-15204

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS NASA-CR-58289

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE CN MERCURY MISSION MA-9 NASA-CR-58948 N64-31553

LINEAR PROGRAMMING
LINEAR PROGRAMMING FOR OPTIMIZATION OF A ONE MANDAY, LIFE SUPPORT SYSTEM WITH SUPPLY AND WASTE
STORAGE
A64-11761

LINEAR SYSTEM
STABILITY AND CONTRCL OF SYSTEM WITH LINEAR
REGULATOR
N64-24708

LIPID
CF ADIPOSE TISSUE
BLOOD CHOLESTEROL AND LIPIDS IN WORKERS AT
ALTITUDE
A64-80182

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPRCTEINS, AND LIPOPROTEIN COMPOSITION N64-2286

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE FTC-TT-63-193/1 N64-23296

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SMEAT REPT.-28C N64-23896

LIPID METABOLISM
CONCENTRATION OF NONESTERIFIED FATTY ACIDS IN
VENOUS BLOOD UNDER DIFFERENT EXPERIMENTAL
CONDITIONS
A64-22061

LIPID PEROXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN TOXICITY A64-25550

ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN COLD EXPOSURE AND HIBERNATION A64-80099

TURNOVER RATE AND OXIDATION OF DIFFERENT FREE FATTY ACIDS IN MAN DURING EXERCISE

A64-80698

CARBON TETRACHLORIDE POISONING AS RELATED TO TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND FATTY ACIDS IN RAT LIVER A64-80730

UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF PIGEON DURING EXERCISE A64-80734

TRIGLYCERIDE CONCENTRATION IN MYDCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN GUINEA PIG A64-80910

STARVATION AND REFEEDING EFFECTS ON LIPOGENESIS
AND FREE FATTY ACID METABOLISM IN OBESE AND
NONOBESE HUMAN
A64-81047

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN COLD EXPOSED RAT A64-81065

PROTEIN AND LIPID CHANGES OF BLOOD SERUM DURING NORMAL AGING IN MAN A64-81070

PHYSICAL EXERCISE AND EFFECT ON ALIMENTARY
HYPERLIPAEMIA AND RELATION TO CATECHOLAMINE
A64-81225

FREE FATTY ACIDS AND BLOOD SUCAR IN ATHLETES AFTER GRADED PHYSICAL STRESS A64-81327

LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT CENTRAL NERVOUS SYSTEM N64-14607

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNCLOGY, AND DIAGNOSIS ORINS-43 N64-16945

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE AND REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS FTD-TI-64-329/16284 N64-32544

LIQUID
SA ORGANIC LIQUID
WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC
COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861

LIQUID COOLING
PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT
LOOPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL
SUIT
A64-27600

LIQUID DXYGEN

CAPILLARY ACTION AND DIELECTROPHORESIS CONVERTERS
FOR OVERCOMING RANDOM ORIENTATION OF LIQUID DXYGEN
FOR BREATHING SYSTEM DURING WEIGHTLESSNESS

A64-80835

LIQUID PROPELLANT
CF AEROZINE
CF PROPELLANT
STORABLE PROPELLANT UTILIZATION EXTENDED TO
INCLUDE ATMOSPHERE REPLENISHMENT, THERMAL CONTROL
AND WATER AND POMER PRODUCTION
AIAA PAPER 64-213
A64-18877

ATMOSPHERIC MONITORING OF TOXIC LEVELS OF MISSILE PROPELLANTS A64-80230

TOXICITY OF RED NITRIC FUMING ACID, DIMETHYL HYDRAZINE, M-3 PROPELLANT, NITROGEN PEROXIDE, ETHYLENE OXIDE, AND PREVENTIVE MEASURES AND TREATMENT A64-80887

LITHERGOLIC PROPELLANT S PROPELLANT

FTD-TT-63-300/1&4

LITHIUM COMPOUND
THERMOCHEMICALLY SELF-PROPAGATING OXYGENGENERATING COMPOSITION USING LITHIUM PERCHLORATE,
MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TDR-64-1
N64-18600

LITHIUM PERCHLORATE
THERMOCHEMICALLY SELF-PROPAGATING OXYGENGENERATING COMPOSITION USING LITHIUM PERCHLORATE,
MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TOR-64-1
N64-18600

LIVER
SA FIBRINOGEN
CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
STRUCTURE AND ENZYME ACTIVITY
A64-80074

HYDRAZINE EFFECT ON LIVER LIPIDS

A64-80329

CARBON TETRACHLORIDE POISONING AS RELATED TO

TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND FATTY ACIDS IN RAT LIVER A64-80730

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, ADRENAL HEIGHT IN RAT

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-80879

INDOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC BLOOD FLOW DURING EXERCISE IN UPRIGHT MAN

24-HOUR PERIODICITY OF MITOTIC DIVISION OF CELLS AND GLYCOGEN CONTENT IN LIVER OF RAT

A64-81307

AAA-RORRO

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BICELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE

JPRS-22125 N64-11359

BICSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY N64-12571

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS N64-13C04

INCCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST

N64-13344

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS NADC-MA-6318

BLOOD PRESSURE MEASUREMENTS OF DXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANCXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER MHOLE-BODY IRRADIATION NIJS-R-422 N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG N64-21049

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS N64-21056

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER CF YOUNG RATS SAM-TDR-64-29 N64-25340

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLECTIDES IN RAT LIVER NASA-TT-F-224 N64-27036 N64-27036

LIZARD

MECHANISM OF NERVOUS RESPONSES IN LIZARDS

N64-31465

LOADING

WEIGHT LOAD EFFECT AND MOVEMENT SPEED ON COORDINATED ACTION OF ANTAGONIST PAIR OF MUSCLES IN HUMAN

A64-81055

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS

N64-10703

LOCALIZATION

ROLE OF PINNA IN HUMAN LOCALIZATION 40-600151

N64-30491

LOCKHEED MILITARY AIRCRAFT T-33 AIRCRAFT

LOCOMOTION

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPIO DECOMPRESSION

A64-808: A64-80834

ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS DIRECTIONS IN MAN A64-80891

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT NASA-TN-D-2176 N64-16916

CF BOOLEAN ALGEBRA CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS N64-17242

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS

N64-18828

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR ESD-TDR-64-193

LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF TRAINING PROCESS N64-30219

LOGIC CIRCUIT

NEURAL NET

LOGISTICS

CF MAINTENANCE CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688

LONG PERIOD EFFECT CHRONIC HIGH PRESSURE DAYGEN TOXICITY EFFECT ON RATS A64-22058

LOOP

CLOSED LOOP SYSTEM

LOSS

HEARING LOSS TRANSMISSION LOSS

LOW ALTITUDE

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE N64-31509

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-315 N64-31511

LOW FREQUENCY

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS FTD-TT-64-242/1 N64-30703 LOW PRESSURE
HUMAN RESPONSE TO CARBON DIOXIDE IN LCW PRESSURE,
DXYGEN RICH ATMOSPHERE A64-80323

ADAPTATION TO LOW PRESSURE - RESEARCH FACILITIES
AND TECHNIQUES
A64-80423

PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS, AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD PURE TONES A64-81161

ION MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

COMMUNICATION AND SOUND TRANSMISSION IN SPACE
CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT
REDUCED PRESSURE A64-81323

LOW PRESSURE CHAMBER
CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL
EXERCISE IN LOW PRESSURE ENVIRONMENT
A64-19173

PRCLONGED EXPOSURE OF YOUNG RATS TO AN CXYGEN ATMOSPHERE AT REDUCED PRESSURE A64-80169

LOW SPEED
HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM
VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT
N64-31512

LOW TEMPERATURE
CF CRYOGENIC TEMPERATURE
CARBON DIOXIDE MANAGEMENT IN SPACECRAFT
ATMOSPHERES USING MOLECULAR SIEVES AND REDUCED
TEMPERATURE
A64-80536

LOW TEMPERATURE ENVIRONMENT
INTRAMOLECULAR REORGANIZATION IN ALCOHOL
DEHYDROGENASE AND PROTEINASE OF B. SUBTILIS DUE TO
SUBZERO TEMPERATURES
A64-24969

THERMAL RESPONSE OF HUMAN SUBJECT IN FULL PRESSURE SUIT UNDER ARCTIC FIELD CONDITIONS
A64-25542

ALVEOLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM OF HYPERPNEA IN RAT EXPOSED TO COLD A64-80046

MECHANISM OF HYPERPNEA DUE TO COLD IN RAT
A64-80054

PHOSPHORUS METABOLISM IN COLD EXPOSED RAT
A64-80C88

ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN COLD EXPOSURE AND HIBERNATION A64-80099

COLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND ELECTROSHOCK SEIZURES A64-80102

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A
NEPALESE PILGRIM
A64-80121

NAUSEA AND VOMITING IN SUBJECTS EXPOSED TO VERTICAL MOTION AT WARM AND MODERATE TEMPERATURE A64-80153

ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN SUBARCTIC SURVIVAL SITUATIONS A64-80167

COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL TRRADIATION A64-80270

COLD STRESS - INTENSITY AND DISTRIBUTION OF REFLEX MUSCULAR ACTIVITY IN MAN A64-80343

COLD STRESS - REGULATION AND DISTRIBUTION OF REFLEX MUSCLE ACTIVITY IN MAN A64-80344

CARDICVASCULAR RESPONSES TO HEAT, CCLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE

CLIMATIC CHAMBERS FOR ADAPTATION RESEARCH
A64-80422

ADAPTIVE MECHANISMS OF HIBERNATORS RESPONDING TO

ADAPTATION OF PRIMITIVE MAN TO COLD STRESS IN VARIOUS GEOGRAPHICAL LOCATIONS A64-80425

ACCLIMATIZATION OF MAN TO POLAR REGIONS

A64-80426

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-80438

COLD AND RESTRICTION STRESS EFFECT ON ACID
MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE
TISSUE AND ENDOCRINE GLANDS IN RAT
A64-80514

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS A64-80551

SUBARCTIC SURVIVAL-EFFECT OF SUPPLEMENTS OF FLUID AND SODIUM COMPOUNDS ON WATER LOSS DURING STARVATION A64-80694

PHYSIOLOGICAL REACTIONS OF MEN TO COLD IN
ANTARCTICA A64-80695

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO COLD A64-80783

MITOSIS AND CHLOROPHYLL CONTENT IN CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR SHORT AND PROLONGED PERIODS A64-80809

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-80879

METABOLIC RESPONSE TO COLD AND RELATIONSHIP BETWEEN BODY TEMPERATURE AND BASAL METABOLIC RATE OF UNDERFED RAT A64-80903

THERMAL RESPONSE OF SUBJECT WEARING FULL PRESSURE SUIT DURING EXERCISE IN ARCTIC ENVIRONMENT

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD A64-80927

RELATIONSHIP OF ELECTRICAL AND METABOLIC ACTIVITY
IN OLFACTORY CAPSULE OF HIBERNATING HEDGEHOG
A64-80935

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL
TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT
EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE
A64-80975

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER A64-80991

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS A64-81002

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD A64-81011

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN COLD EXPOSED RAT A64-81065

PHYSIOLOGICAL CHANGES IN HUMAN ORGANISM DURING ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC

A64-81103

PHYSICLOGICAL CHANGES IN HUMAN UNDERGOING ACCLIMATIZATION TO SUBARCTIC ATMOSPHERIC CONDITIONS

A64-81104

EFFECT OF INHALING COLD AIR ON PULMONARY VENTILATION IN MAN

A64-81125

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING 464-81319

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT AAL-TDR-63-40 N64-13633

EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE N64-18874 AAL-TCR-63-9

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS JPRS-25650 N64-27503

LUBRICANT

S PETROLEUM

LUMINESCENCE

SA BIOLUMINESCENCE

SA CHEMILUMINESCENCE

SA LUMINESCENT INTENSITY SONOLUMINESCENCE

SA **FLUORESCENCE**

CF LIGHT

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY MICROORGANISM A64-80855

VISUAL PROBLEMS OF LUMINESENCE, MOTION, AND DESIGN IN OBSERVING SATELLITE FROM ANOTHER SATELLITE

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN JPRS-19936

LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON

N64-12498 LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS

USING IONIZING RADIATION JPRS-22915 N64-14148

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION N64-20232

LUMINESCENT INTENSITY

UNESSENT INTENSITY OF BACTERIOVIRIDIN TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA JPRS-23054 N64-14529

LUMINOUS INTENSITY VISUAL REACTION TIME AS FUNCTION OF INTENSITY-TIME RELATION OF STIMULUS A64-80322

LUNAR BASE

ECOLOGICAL SYSTEMS IN SPACE VEHICLES CONTRASTED WITH THOSE IN PERMANENT OR SEMIPERMANENT LUNAR CR PLANETARY BASES 464-80486

BICLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE

N64-13714

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716

LUNAR ENVIRONMENT

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT NASA-TN-D-2176 N64-16916

LUNAR GRAVITATIONAL EFFECT

MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS UNDER ZERO AND LUNAR GRAVITY CONDITIONS

A64-80837

WALKING RESPONSES UNDER LUNAR AND LOW GRAVITY

CONDITIONS AMRL-TDR-63-112

N64-13873

LUNAR LANDING

CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMOTE CONTROLLED LUNAR LANDING SIMULATION

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 N64-29206

LUNAR LAUNCH

S LUNAR BASE

LUNAR SPACECRAFT

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION

LUNAR SURFACE VEHICLE
REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM EARTH, EXAMINING HUMAN AND SIMULATION ASPECTS

LUNG

CF ALVEOLAR AIR CF PULHONARY FUNCTION ANOXIA INDUCED CHANGES IN METABOLITE CONTENT OF RABBIT LUNG A64-80246

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE DECOMPRESSION IN SUBJECTS WEARING A FRENCH HIGH-ALTITUDE SHIT

THORACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN SELECTION AND PERIODIC EXAMINATION OF MILITARY FLYING PERSONNEL IN FRANCE

QUANTITATIVE MORPHOLOGIC ANALYSIS OF HUMAN LUNG BY

MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS

RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO RESPIRATORY RATE

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES A64-80614

PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN BREATHING LOW CONCENTRATIONS OF OZONE

A64-80742

POST-MORTEM PULMONARY CHANGES OCCURRING IN MICE EXPOSED TO 100 PER CENT OXYGEN AT 740 MM HG A64-80856

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DOG AS RELATED TO PH AND CARBON A64-81009

SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG AD-429070

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939

GAS EXCHANGE IN LUNGS OF MAN

N64-17941

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG N64-17952

TRACHEA OCCLUSION IN RATS BREATHING DXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION FPRC-1212 N64-22218

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM TRANSFER OF HEART CONTRACTILE ENERGY THROUGH
LUNG-THORAX SYSTEM N64-22412

LYMPH

LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT

A64-80985

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED ANIMALS N64-30244

. VSERGAMINE

SENSORY DEPRIVATION AND LYSERGIC ACID DIETHYLAMIDE /LSD/ EFFECT-PHYSIOLOGICAL CONSIDERATIONS

A64-80678

Ν

MACHINE S TEACHING MACHINE

MACHINE LEARNING

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS

SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS RADC-TDR-64-145 N64-25235

LEARNING MACHINE - PATTERN RECOGNITION MODEL
TN-1 N64-25296

MACHINE RECOGNITION

AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL PHENOMENA BY COMPUTERS A64-80533

MACROMOLECULE

ORIGIN OF LIFE RELATED TO FORMATION OF MACROMOLECULES A64-80807

ORIGIN OF LIFE ON EARTH BY INTERACTION OF PROTEIN AND NUCLEIC ACID MACROMOLECULES

A64-81126

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS
JPRS-24068 N64-17973

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056

MACROPHAGE

HISTOLOGICAL ANALYSIS OF LABYRINTH PIGMENTED
CELLS - MELANIN CONTAINING MACROPHAGES
A64-80977

MAGNESIUM

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE -ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

MAGNETIC EFFECT

MAGNETIC FIELD EFFECT ON ACTIVATION OF CARBOXYDISMUTASE, CATALYTIC ENZYME IN PHOTOSYNTHESIS

A64-18377

STATIC MAGNETIC FIELD EFFECT ON BIOLOGICAL ENTITIES A64-19140

BIOLOGICAL EFFECTS OF HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS IN RELATION TO SPACE TRAVEL A64-24398

MODIFICATION OF SODIUM TRANSPORT IN FROG SKIN BY DC FIELD EXPLAINS DEPOLARIZATION IN NERVE CELLS

A64-24974

STRONG MAGNETIC FIELDS EFFECT ON ELECTRO-CARDIOGRAMS OF SQUIRREL MONKEYS /SAIMIRI SCIUREUS/, NOTING HEART RATE A64-27598

BIOLOGICAL EFFECTS OF MAGNETIC FIELDS IN THEIR RELATION TO SPACE TRAVEL - A REVIEW

A64-80482

EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA PYRENCIDOSA A64-80866

MAGNETIC FIELD EFFECT ON BODY MOVEMENTS IN BIRD A64-80872

BIOLOGICAL MATERIALS AFFECTED BY MAGNETIC FIELDS OF DIFFERENT STRENGTHS FOR VARYING TIME PERIODS A64-81117

EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED
REFLEXES IN SEA FISH
NASA-TT-F-189 N64-11564

CONDITIONED REFLEX TO MAGNETISM IN FISH NASA-TT-F-190 N64-12962

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN INSECT WING DEVELOPMENT N64-15207

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA
NASA-CR-55625 N64-15346

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS NASA-CR-56886 N64-27890

MAGNETIC FIELD
ERYTHROCYTES, LEUKOCYTES, AND HEMCGLOBIN OF MOUSE
EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC
FIELDS
A64-80841

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499

MAGNETIC PROPERTY S HALL EFFECT

MAGNETIC RESONANCE S PARAMAGNETIC RESONANCE

MAGNETIC TAPE

CF DATA STORAGE FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

MAINTENANCE

SA AIRCRAFT MAINTENANCE
SA SPACE MAINTENANCE
HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE
OF HEALTH
ENG. REPT.-11133 N64-14943

PROCEDURE FOR PREDICTION OF TIME AND MANPOWER
REQUIRED FOR MAINTENANCE OF ELECTRONIC EQUIPMENT
REPT. -64-34
N64-22095

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT AMRL-MEMO-P-45 N64-30500

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER ZERO GRAVITY CONDITIONS N64-32154

MAMMAL

ADAPTATION OF MAN AND MAMMALS TO ATMOSPHERIC POLLUTANTS A64-80429 BODY WATER BALANCE AS AFFECTED BY WATER INGESTICN
IN MAMMAL A64-80548

REVIEW OF STUDIES OF RADIATION EFFECTS CN ANIMALS AND PLANTS A64-80773

DEGREE OF ABSORPTION OF IONIZED AIR IN UPPER RESPIRATORY TRACT OF MAMMAL AND BIRD

A64-80895

RELATIONSHIP OF ELECTRICAL AND METABOLIC ACTIVITY IN OLFACTORY CAPSULE OF HIBERNATING HEDGEHOG

CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN MAMMAL CAUSED BY INTENSE ACOUSTIC STIMULATION A64-81079

PENTABORANE POISONING AND RELATION BETWEEN LETHAL AND INCAPACITATING DOSAGES IN MAMMAI

A64-81177

ELECTRORETINGGRAM AND ELECTROENCEPHALOGRAM OF VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA A64-81187

HIGH ALTITUDE EFFECT ON HEMATOLOGICAL DATA IN MOUNTAIN SHEEP AND GOATS A64-81269

HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF PERIPHERAL BLOOD AND HYPOPHYSIS-ADRENAL SYSTEM IN MAMMALS AND MAN A64-81282

AGE FACTOR IN MAMMALIAN RESPONSE TO HYPOXIA

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION JPRS-18479 N64-10769

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE CARI-63-11 N64-12346

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE

N64-12887

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS

JPRS-22778

N64-13230

HIBERNATION IN MAMMALS AND BIRDS AAL-TDR-63-3

N64-13661

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG AD-429070 N64-14832

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/182 N64-16377

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS LAMS-3034 N64-16573

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS
AMRL-TDR-63-128
N64-16585

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION FR-2 N64-19086

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS

N64-22866

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS FTD-TT-63-931/182 N64-24064

GAMMA RADIATION EFFECT ON THERMAL STRESS
RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND
MAMMALS
AD-600960
N64-25308

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS
N64-25313

PMYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS NASA-CR-56348

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS
JPRS-25650 N64-27503

RADIATION EFFECTS ON MAMMALIAN EYE — SUBJECT INDEX TID-3912 N64-28

BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION
AAL-TDR-63-34
N64-31936

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR NASA-CR-129 N64-32833

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY NASA-CR-59374 N64-3390&

MAN

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT ON ANIMALS AND MEN - A REVIEW

A64-80488

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS SB-62-60 N64-2051

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24341

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SENICIRCULAR CANAL IN MAN AND OTHER MAMMALS — PHYSIOLOGY NASA-CR-59374 N64-33906

MAN-MACHINE SYSTEM

CF HUMAN ENGINEERING

CF HUMAN FACTOR

CONTROL SYSTEM OPTIMIZATION WITH RESPECT TO

EFFICIENCY AND RELIABILITY DISCUSSED IN TERMS OF

MAN-MACHINE ADAPTABILITY

A64-16478

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MAN-MACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT AIAA PAPER 64-421 A64-20783

COMPUTER TO MAN INFORMATION TRANSFER COMPARING TECHNOLOGY WITH INTUITION A64-22531

SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY
IN X-15 AIRCRAFT A64-22635

RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY
AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS
A64-22636

HUMAN EYE MOVEMENT TRACKING SYSTEM FOR CONTROL PURPOSES A64-23105

REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM EARTH, EXAMINING HUMAN AND SIMULATION ASPECTS

A64-23297

ANALYTICAL TECHNIQUES FOR HUMAN FACTOR ENGINEERING IN MAN-MACHINE SYSTEMS A64-23299

RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND CONTROLLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS A64-24126

OPERATOR ADAPTATION TO SUDDEN CHANGES IN CONTROLLED ELEMENT GAIN AND POLARITY BASED ON TRACKING ERROR AND RESPONSE TIME A64-24127

MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION,

USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST TIME OUTPUT SOLUTION A64-24129

BOOK ON BIOASTRONAUTICS INCLUDING PHYSIOLOGICAL PROBLEMS OF SPACEFLIGHT, MAN-MACHINE SYSTEMS, SPACE FLIGHT OPERATIONS AND PERSPECTIVES

A04-243

LIFE SCIENCE RESEARCH REQUIRED TO ACHIEVE INTEGRATED MAN-MACHINE SYSTEMS A64-24401

HUMAN OPERATOR PERFORMANCE IN COMPLEX MAN-MACHINE SYSTEM SIMULATED, USING BOOLEAN ALGEBRA AND DIGITAL COMPUTER A64-24822

HUMAN OPERATOR PERFORMANCE IN BANG-BANG CONTROL SYSTEM IN PHASE PLANE, INTERPRETING RESULTS IN TERMS OF SWITCHING LINES A64-24840

HUMAN OPERATOR ADAPTATION TO DISCRETE AND CONTINUOUS TIME VARIATIONS IN CONTROL SYSTEM A64-24841

MAN-MACHINE INTERACTION MODELS USED TO SHORTEN PRELIMINARY SYSTEM DESIGN A64-24845

CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK
A64-25202

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN

A66-25574

AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC VOICE PATTERN RECOGNITION A64-26640

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE
CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY,
CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO
TWO-HAND CRANKING TASK
A64-26851

DISPLAY UPDATE RATE EFFECTS ON IMMEDIATE MEMORY OF HUMAN MONITOR IN CONTROL SYSTEM

A64-26853

ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING
CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS
A64-2727

FOOT PEDAL DESIGN AFFECTING OPERATION TIME

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO/HUMAN ENGINEERING OF SPACE VEHICLES A64-80147

CIVIL AVIATRON AIRCRAFT ACCIDENT INVESTIGATION METHODOLOGY AND PATTERNS OF RESEARCH IN RELATION
TO HUMAN FACTOR A64-80458

MAN-MACHINE SYSTEM AND BIOINSTRUMENTATION
APPLICABLE TO MANNED SPACE FLIGHT RESEARCH - A
REVIEW. A64-80485

PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS A64-80546

HUMAN INFORMATION TRANSMISSION WITH SEQUENCES OF SOUND PULSES AT DIFFERENT RATES AND USE OF BINARY KFY A64-81188

AGE, INFORMATION TRANSMISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS JPRS-223CO N64-11872

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER AEDC-TOR-63-256 N64-12226

HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE SYSTEM

SCR-685

N64-17267

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM
PERFORMANCE - BIBLIOGRAPHY
NASA-CR-R3
N64-25172

EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS
IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS
AMRL-TDR-64-39 N64-26884

PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM
NASA-CR-95 N64-30831

MANAGEMENT

S PERSONNEL

MANAGEMENT PLANNING

HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF MORAL DISCIPLINE IN WORKMANSHIP

A64-26525

MANEUVER

MEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS FTD-TT-63-300/164 N64-19213

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TDR-64-47 N64-28562

MANGANESE

CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE
SULFATE IN RATS EXPOSED TO OXYGEN UNDER PRESSURE
A64-80283

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL MANGANESE POISONING
JPRS-17557 N64-10564

MANGANESE COMPOUND S MANGANESE OXIDE

MANGANESE OXIDE
CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF
MANGANESE OXIDES
JPRS-18698 N64-10504

MANHATTAN PROJECT
MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF
EXTERNAL RADIATION
N64-10936

MANNED ORBITAL LABORATORY /MOL/
LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT
SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION
FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND
MARS MISSIONS
AD-445253
N64-30712

MANNED ORBITAL SPACE STATION /MOSS/ ENUMERATION OF INTERACTIONS THAT MIGHT BE EXPECTED FROM CONSTITUENTS IN A SEALED ENVIRONMENTAL SYSTEM AIAA PAPER 63-258

BIOLOGISTIC SPECIFICATIONS AND ENGINEERING
CONSTRAINTS ASSOCIATED WITH OPTIMUM LIFE SUPPORT
SYSTEM TO SATISFY 30-, 60- AND 100-DAY MANNED
ORBITAL SPACE MISSIONS
ATAA PAPER 63-164
A64-16643

HUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA AIAA PAPER 64-219 A64-18878

MANNED SPACE STATION FOR BIOLOGICAL AND ENGINEERING RESEARCH A64-80011

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON METABOLIC APPROACH A64-80446

MANNED SPACE FLIGHT
EVALUATION OF PSYCHOLOGICAL ASPECTS OF EXTENDED

MANNED SPACE FLIGHT

A64-10114

VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN MANNED SPACEFLIGHT A64-10627

INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION FOR MANNED SPACE FLIGHT A64-10628

VESTIBULAR STIMULATION EFFECTS ON VISUAL PERCEPTION FROM MANNED SPACE FLIGHT

A64-10629

PSYCHOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT, DISCUSSING ASTRONAUT ISOLATION AND CREW MEMBER COOPERATION A64-11442

FOOD FOR ASTRONAUTS DURING SPACE FLIGHTS, NOTING PRUBLEMS AND PECULIAR ASPECTS OF EATING AND DRINKING IN SPACE ENVIRONMENT A64-13449

ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT A64-13519

MAN AND MACHINE SYSTEM EVALUATION FOR SCIENTIFIC EXPLORATION OF SPACE A64-14990

EMERGENCY LIFE SUSTAINING SYSTEM FOR SPACECRAFT
A64-13997

MAN AND THE SPACE ENVIRONMENT WITH RESUME OF PRESENT KNOWLEDGE A64-14092

SPACE MECICINE EXPERIENCE IN MANNED SPACE FLIGHT
APPLIED TO APOLLO
AAS PAPER 64-12
A64-17959

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

A64-18256

MULTIFILTER SYSTEM FOR WASH WATER RECLAMATION FOR EXTENDED DURATION SPACE VOYAGES, SHOWING IMPORTANCE OF WATER COMPOSITION AIAA PAPER 64-212 A64-18865

CRTHOSTATIC INTOLERANCE, WITH ASSESSMENT OF CIRCULATORY PROBLEM OF WEIGHTLESSNESS IN PROLONGED SPACE FLIGHT A64-19130

DOSAGE LEVELS AND BIOLOGICAL EFFECT OF RADIATION HAZARDS FOR MANNED SPACE FLIGHT

A64-19133

PHYSICLOGICAL EFFECTS AND CONSTITUENTS OF GASEOUS ENVIRONMENT IN SPACE TRAVEL A64-24615

BICCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN ON SPACE MISSION A64-24616

SENSORY AND PERCEPTUAL CAPABILITIES IN RELATION TO TASKS PERFORMED DURING SPACE FLIGHT

A64-24619

RELATION OF PHYSICAL PROTECTION OF MAN TO ISOLATION AND DISORIENTATION DURING SPACE TRAVEL A64-24620

BICLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEDPHYSICAL ROCKET AND MANNED SATELLITE OBSERVATIONS A64-25571

ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT ENVIRONMENT WITH RESPECT TO MORK AND REST CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT TASKS A64-25591

U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE A64-26380

SPACE FLIGHT AND SIMULATION EXPERIMENT
REQUIREMENTS FOR DETERMINING ASTRONAUT PHYSIOLOGY
AND SURVIVAL IN NEAR EARTH ORBIT

A64-28339

CYBERNETICS ROLE IN SPACE FLIGHT INCLUDING CONTROL CIRCUITS FOR GUIDANCE AND ELECTRONIC EQUIPMENT A464-28379

BIOLOGICAL AND MEDICAL CONSIDERATIONS OF SPACE FLIGHT INVESTIGATING PHYSIOLOGICAL FUNCTIONS, WORKING ABILITY, HEALTH AND SAFETY OF ASTRONAUT A64-28459

MANNED SPACE FLIGHT PROJECTS AND RESEARCH IN SPACE FLIGHT ECOLOGY A64-80037

CALORIC REQUIREMENTS OF MAN UNDER SPACE FLIGHT CONDITIONS A64-80039

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

SPACE FLIGHT IMPLICATIONS OF PLASMA VOLUME RESPONSE TO WATER IMMERSION A64-80176

ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE TRAVEL A64-80208

SPACE MEDICINE IN THE MANNED SPACE FLIGHT PROGRAM OF NASA A64-80213

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES A64-80226

PROGRESS OF MAN IN SPACE AND EXTRATERRESTRIAL LIFE - A POPULAR REVIEW A64-80238

CHEMOSYNTHETIC GAS EXCHANGE SYSTEM FOR LONG DURATION MANNED SPACE FLIGHT A64-80262

HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND
METHODS OF IMPROVING TOLERANCE IN MAN

A64-R0393

CENTRAL NERVOUS SYSTEM FUNCTIONAL INTEGRITY
ASSESSED THROUGH RADIO-TELEMETRY DURING MANNED
SPACE FLIGHT A64-80435

PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE FLIGHT A64-80457

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF ACCELERATION STRESS IN SPACEFLIGHT - A REVIEW A64-80477

TRANSIENT ACCELERATION, VIBRATION, AND NOISE PROBLEMS IN SPACE FLIGHT - A REVIEW A64-80478

HEAT REGULATION, HEAT TOLERANCE, AND THERMAL PROTECTION IN MANNED SPACE FLIGHT

DOSIMETRY OF RADIATION FIELDS IN SPACE AND
RELATION TO MANNED SPACEFLIGHT A64-80481

RELATION TO MANNED SPACEFLIGHT A64-80481
BIOLOGICAL EFFECTS OF MAGNETIC FIELDS IN THEIR
RELATION TO SPACE TRAVEL - A REVIEW

PROBLEMS OF WEIGHTLESSNESS, VIGILANCE, AND SENSORY DEPRIVATION IN MANNED SPACE FLIGHT

A64-80484

MAN-MACHINE SYSTEM AND BIGINSTRUMENTATION
APPLICABLE TO MANNED SPACE FLIGHT RESEARCH - A
REVIEW A64-80485

MOON ILLUSION DURING MANNED SPACE FLIGHT

A64-80507

A64-80480

A64-80482

WEIGHTLESSNESS AND OTHER INFLUENCES DURING 24 HOUR MANNED SPACE FLIGHT A64-80522

FUNCTION OF PROJECTS GEMINI AND APOLLO IN MANNED SPACE FLIGHT A64-80523

PROTECTION AGAINST METEOROIDS DURING MANNED SPACE FLIGHT A64-8052

RADIATION HAZARD AND PROTECTION DURING MANNED SPACE FLIGHT A64-80526

MANNED SPACE FLIGHT PROBLEMS AND POSSIBILITY OF LIFE ON OTHER PLANETS A64-80532

BIOLOGICAL AND TECHNOLOGICAL PROBLEMS OF MANNED A64-80602

ADAPTATION TO SPACE FLIGHT CONDITIONS - EFFECTS AND COUNTERMEASURES TO WEIGHTLESSNESS AND OTHER PHYSICAL AND PSYCHOLOGICAL STRESSES

A64-80638

PHYSIOLOGICAL STATE OF MAN DURING SPACE FLIGHT AS RELATED TO GASEOUS ENVIRONMENT AND PRESSURE LEVELS A64-80643

SENSORY AND PERCEPTUAL RESPONSE TO SPACE FLIGHT STRESSES A64-80646

CIRCADIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRONAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT A64-80667

TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BIOLOGICAL AND ECONOMIC ASPECTS OF SPACE EXPLORATION A64-80786

MAN IN SPACE - FOOD, WATER, ENVIRONMENTAL REQUIREMENTS, WASTE UTILIZATION AND LIFE SUPPORT SYSTEMS A64-80788

AIRBORNE MICROORGANISMS AS SOURCE OF INFECTION DURING LOW GRAVITATIONAL SPACE FLIGHT AND METHODS OF RECOGNITION BASED ON CHLORIDE CONTENT

A64-80827

APPLICATION OF BIOCYBERNETICS TO BIOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT

A64-81C35

PATHOLOGICAL EFFECT OF ACCELERATION, IONIZING RADIATION, AND WEIGHTLESSNESS DURING MANNED SPACE 464-81097

VISUAL PROBLEMS OF LUMINESENCE, MOTION, AND DESIGN IN OBSERVING SATELLITE FROM ANOTHER SATELLITE 464-81162

RATE OF BIOLOGICAL SENESCENCE AT HIGH VELOCITY IN SPACE FLIGHT A64-81185

SOLAR CORPUSCULAR AND RADIO EMISSION HAZARD TO MANNED SPACE FLIGHT A64-81221

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS. AND EFFECTS OF SPACE ENVIRONMENT ON MAN

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE JPRS-21610 N64-10201

SOVIET SPACE FLIGHT TRAINING OF ASTRONAUTS N64-1020B

PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE N64-10264

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE **FLIGHT** N64-10265

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE JPRS-18627 N64-10503

COSMIC RACIATION HAZARD FOR MANNED SPACE FLIGHT -PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

N64-11808

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY SID-63-354 N64-11821

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE **FLIGHT** AMRL-TDR-63-81 N64-12213 SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT FTD-TT-62-1605/1 N64-12849

ASTRONAUTS FOR MANNED SPACE FLIGHT NASA-EP-11

N64-14655

HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL FAILURE OR MICROMETEOR IMPACT N64-17550

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL NADC-MA-6321 N64-20329

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT NASA-CR-53958 N64-20730

HUMAN ADAPTATION TO CHANGING ENVIRONMENTAL FACTORS DURING SPACE FLIGHT JPRS-20673 N64-2225b

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM FTD-TT-63-719/162 N64-23309

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT NASA-TT-F-9131 N64-29730

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

N64-30344

MEDICINE, AEROSPACE, AND MANNED SPACE FLIGHT N64-30713

SPACE MEDICINE AND MANNED SPACEFLIGHT

N64-30714

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS NASA-TN-D-2162

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT N64-33604

MANNED SPACECRAFT
CF APOLLO SPACECRAFT
CF MERCURY CAPSULE CF UMMANNED SPACECRAFT
WEIGHT AND STORAGE FACTORS INVOLVED IN A MANNED
MARS MISSION EMPLOYING FULLY REGENERATIVE LIFE-SUPPORT SYSTEMS 464-10113

LIGHTING REQUIREMENTS OF GENERAL CREW STATIONS FOR MANNED SPACECRAFT A64-10630

MANNED SPACECRAFT FOR SURVEILLANCE AND RECONNAISSANCE USING UNAIDED VISION AND MAN-PERISCOPIC VISION A64-10632

VISUAL CAPABILITIES IN ACQUISITION, HOMING AND DOCKING PHASES OF SPACECRAFT RENDEZVOUS

SPACECRAFT PILOT SELECTION AND TRAINING FOR MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT SCHOOL

BIOLOGICAL REGENERATION IN CONFINED ENVIRONMENT OF SPACECRAFT, EMPHASIZING CLOSED CIRCUIT SYSTEM FOR REGENERATING RESPIRATORY GASES DURING LONG SPACE A64-11432

INTERRELATION OF ADDED WEIGHT EFFECTS AND SAFETY FACTORS IN MANNED SPACECRAFT SHOWING NEED FOR SUBSYSTEMS REQUIRING MINIMUM CREW

LIFE SUPPORT SYSTEMS IN SPACE ENVIRONMENT EXAMINED, PROPOSING NORMAL SEA-LEVEL ENVIRONMENT FOR EARLY MANNED SPACE OPERATIONS

A64-11456

STEADY STATE BIOENFRGETICS CONSIDERED IN

ATMOSPHERIC AND ENVIRONMENTAL CONTROL OF MANNED SPACE VEHICLES A64-18425

AMERICAN AND SOVIET APPROACH TO MANNED SPACECRAFT COMPARED. NOTING LIFE SUPPORT PROBLEMS AND PROTECTION AGAINST SPACE ENVIRONMENT ATAA PAPER 64-515 464-20469

OXYGEN MANAGEMENT, TOXICITY AND ENVIRONMENT SELECTION FOR MANNED SPACECRAFT

A64-21182

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE ATAA PAPER 64-393

ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT LIFE SUPPORT SYSTEMS A64-23200

IMPORTANCE OF PILOT VIEWPOINT AND EXPERIENCE IN MANNED SPACECRAFT DESIGN AND DEVELOPMENT

N64-17659

GASEOUS REQUIREMENTS FOR MANNED SPACECRAFT ATMOSPHERE - A REVIEW A64-80479

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW **8A808-8A8**

CARBON DIOXIDE MEASURING SYSTEMS FOR MANNED SPACECRAFT A64-81109

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES NAEC-ACEL-518

GASEOUS ENVIRONMENTAL TESTING FOR MANNED SPACECRAFT N64-22073

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942 N64-24606

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611

KANOMETER

PORTABLE ELECTROMANOMETER FOR DIRECT BLOOD PRESSURE MEASUREMENT UNDER FIELD CONDITIONS A64-80295

MANPOWER

CF PERSONNEL

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS AMRL-TDR-63-110 N64-18599

QUEUING MODEL FOR DETERMINING MANPOWER AND

TRAINING - HUMAN ENGINEERING AMRL-TDR-64-21 N64-19101

MANUAL CONTROL

EXPERIMENT FOR COLLECTING EMPIRICAL DATA ON HUMAN PERFORMANCE IN COMMAND AND CONTROL SYSTEMS

VISUAL GUIDANCE AIDS FOR MANUAL FLIGHT CONTROL A64-23298

PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE
PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM
MANUALLY CONTROLLED VEHICLES

A64-233 A64-23300

OPERATOR ADAPTATION TO SUDDEN CHANGES IN CONTROLLED ELEMENT GAIN AND POLARITY BASED ON TRACKING ERROR AND RESPONSE TIME

464-24127

NONLINEAR CHARACTERISTICS OF CLOSED LOOP MANUAL CONTROL SYSTEM WITH COMPENSATORY TRACKING

MODERN OPTIMAL CONTROL THEORY RELATION TO MANUAL CONTROL SYSTEMS EMPHASIZING HUMAN ELEMENT

A64-24837

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY, CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO THO-HAND CRANKING TASK A64-26851

COMPARISON OF JOY STICK WITH MULTIPLE LEVERS FOR EFFECTIVE CONTROL-EFFECTOR RELATIONSHIPS IN REMOTE MANIPULATOR APPLICATIONS A64-26852

ASTRONAUT ROLE IN SPACECRAFT ORBITAL RENDEZVOUS A64-27814

FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL CONTROL

MANUAL CONTROL SYSTEMS AND HUMAN OPERATOR PERFORMANCE NASA-CR-55514

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL NASA-TN-D-2255 N64-18734

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY NASA-TN-D-2467 N64-27946

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION TR-EE64-15

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE AD-441953

MANUAL CONTROL SYSTEMS STUDIES - MATHEMATICAL MODELS DEVELOPMENT, ADAPTIVE CHARACTERISTICS, AND MULTIAXIS VARIABLES NASA-CR-59258

MANUFACTURING

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS SC-4959/M/ N64-14997

MAPPING

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION JPRS-25347 N64-28007

MARINE NAVIGATION

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS JPRS-22345 N64-11917

MARINER II SPACE PROBE

MARINER II SPACE PROBE STUDIES OF MARS AND VENUS
ATMOSPHERES
A64-8104 A64-81044

MARS /PLANET/

CF MARS ATMOSPHERE CF MARS SURFACE

TEMPERATURE MEASUREMENTS AND OBSERVATIONAL EVIDENCE OF LIFE IN THE FORM OF VEGETATION IN THE DARK REGIONS OF MARS

A64-1012 A64-10126

ORBITAL AND UNMANNED LANDING VEHICLES FOR THE BIOLOGICAL EXPLORATION OF MARS A64-10128

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN CONDITIONS AND POSSIBLE EFFECTS ON EXTRA-TERRESTRIAL LIFE

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS

EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-24950

EVIDENCE FOR EXISTENCE OF LIFE ON MARS

N64-14741

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS

NASA-CR-55511 N64-22755

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF

EXTRATERRESTRIAL LIFE NASA-CR-50208

NA4-22764

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS N64-22773 NASA-TM-X-50806

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS N64-30712 AD-445253

MARS ATMOSPHERE

BICLOGICAL IMPLICATIONS AND BACTERIA RESPONSE TO SIMULATED MARTIAN CONDITIONS, DISCUSSING PRESENCE OF WATER ON MARS

MARTIAN CONDITIONS SIMULATED FROM ASTROPHYSICAL DATA FOR MICROBIOLOGICAL INVESTIGATIONS

464-18801

BICCHEMICAL CHARACTERISTICS OF LIFE ON MARS TO DEVELOP DESIGN OF MARTIAN BIOLOGICAL EXPERIMENTS A64-24951

TOPOGRAPHICAL AND METEOROLOGICAL ASPECTS OF MARS AS RELATED TO LIFE SUSTAINING CAPABILITY

464-80527

ASTROBOTANY STUDIES SUGGESTING PRESENCE OF PLANTS A64-80528

II SPACE PROBE STUDIES OF MARS AND VENUS MARINER ATMOSPHERES A64-81044

SPECTRAL EVIDENCE OF SNOW IN MARTIAN ATMOSPHERE A64-81084

MARS ENVIRONMENT

EXPERIMENTAL MARTIAN ENVIRONMENT CONSTRUCTED FOR STUDYING POSSIBLE LIFE ON THE PLANET

464-10147

MARTIAN CONDITIONS SIMULATED FROM ASTROPHYSICAL DATA FOR MICROBIOLOGICAL INVESTIGATIONS A64-18801

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN CONDITIONS AND POSSIBLE EFFECTS ON EXTRA-TERRESTRIAL LIFE A64-24948

BICCHEMICAL CHARACTERISTICS OF LIFE ON MARS TO DEVELOP DESIGN OF MARTIAN BIOLOGICAL EXPERIMENTS A64-24951

BIOLOGICAL CONTAMINATION OF MARS BASED CN TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED
MARTIAN ENVIRONMENTS
A64-24 A64-24978

MARTIAN LIFE /MICROORGANISMS/ DETECTION AND IDENTIFICATION FROM SPACE PROBE CHEMICAL. MORPHCLOGICAL AND PHYSIOLOGICAL EVIDENCE

A64-28342

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SCLAR RADIATION ENVIRONMENT OF INTERPLANETARY 864-80061

SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS ENVIRONMENT N64-11293

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT SAM-TCR-63-75 N64-12340

BACTERIAL SURVIVAL IN SIMULATED MARTIAN ENVIRONMENT

N64-22759 NASA-CR-50516 BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT

N64-22777 NASA-TM-X-50873

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON NASA-CR-56529

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN **ENVIRONMENT** N64-29559

MARS SURFACE

ORBITAL AND UNMANNED LANDING VEHICLES FOR THE BICLOGICAL EXPLORATION OF MARS A64-10128

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SOLAR RADIATION ENVIRONMENT OF INTERPLANETARY A64-80061

TOPOGRAPHICAL AND METEOROLOGICAL ASPECTS OF MARS AS RELATED TO LIFE SUSTAINING CAPABILITY

464-80527

ASTROBOTANY STUDIES SUGGESTING PRESENCE OF PLANTS A64-80528 ON MARS

INFRARED SPECTRA OF MARS SUGGEST PRESENCE OF LIFE A64-80565

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115

SA OXYGEN MASK DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH ARL-TDR-64-3 N64-21311

TEMPORAL SUMMATION PROCEDURE USED TO DETERMINE BACKWARD MASKING AS FUNCTION OF TIME INTERVAL BETWEEN SIGNAL AND NOISE ONSET

MODEL FOR INTERPRETING DATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF NOISE IN MASKING SIGNALS A64-27497

INTERACTION OF FORWARD AND BACKWARD MASKING IN LISTENING TO TONAL PULSE A64-80642

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND N64-27098 TR-20

MASS SPECTROMETRY

ORGANIC MOLECULAR STRUCTURE OF TERRESTRIAL NATURAL PRODUCTS IDENTIFIED AND DETERMINED BY MASS SPECTROMETRY A64-18845

MASS TRANSFER

ENERGY TRANSFER

MATERIAL

ORGANIC MATERIAL

RADIOACTIVE MATERIAL

MATERIAL TESTING

CF ENVIRONMENTAL TESTING CF FAILURE

TEST SCOPE FOR OPERATIONAL INTEGRITY OF SPACE SUIT A64-23246 MATERIALS

MATERIALS SCIENCE

S PLASTIC MATERIAL

MATHEMATICAL MODEL

MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS A64-80539

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA N64-12513 CYBERNETICS

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12 N64-12515

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION N64-14779 TECH. REPT.-115-2

MATHEMATICAL MODELS OF NEURAL ACTIVITY

N64-18835

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS

NASA-CR-56374

N64-23993

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS NASA-CR-56362 N64-24040

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION N64-30018

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM N64-30493

MANUAL CONTROL SYSTEMS STUDIES - MATHEMATICAL MODELS DEVELOPMENT, ADAPTIVE CHARACTERISTICS, AND MULTIAXIS VARIABLES NASA-CR-59258

MATHEMATICS /GEN/

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES OF HUMAN BODY DUE TO ELASTICITY OF TISSUES A64-80939

APPLICATION OF BIOCYBERNETICS TO BIOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS WGLR-6/1963

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM N64-13575

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY JPRS-23234 N64-1494 N64-14944

MATHEMATICAL ANALYSIS OF RADIATION INJURY INCIDENCE IN CELL CULTURE N64-15208

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BICLOGY AND MEDICINE N64-23772

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BICLOGICAL CULTIVATORS WITH IRREGULAR SHAPES N64-23778

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324

UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS N64-32986

MATRIX

S GRID

MATRIX ALGEBRA
GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/18284 N64-12384

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION CF GRAPHS N64-22868

THREE-WAY FACTOR ANALYSIS OF MULTITRAIT-MULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL TEST RESULTS AD-600302 N64-29659

MAXIMUM PRINCIPLE

MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL PROCESSES FTD-TT-62-1746/18284 N64-22143

MEASUREMENT

DRAG MEASUREMENT

IMPEDANCE MEASUREMENT NOISE MEASUREMENT

PRESSURE MEASUREMENT

SOUND MEASUREMENT

TEMPERATURE MEASUREMENT

MEASURING APPARATUS

SA ACCELEROMETER SA HEMATOCRIT

CARBON DIOXIDE MEASURING SYSTEMS FOR MANNED 464-81109

JOINT MOTION MEASURING METHODS AS APPLIED TO HEAD MOVEMENT A64-81129

BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION AND RESPIRATION A64-811

DXYGEN CONSUMPTION COLOR CHANGES IN HUMAN EPIDERMIS, AND EFFECTS OF PURE OXYGEN INHALATION MEASURED IN VIVO WITH CYCLOPS OXIMETER A64-81207

APPARATUS FOR MEASURING TACTILE DISCRIMINATION

APPARATUS FOR MEASURING KINESTHETIC JUDGMENTS A64-81305

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSIOLOGICAL MONITORING SYSTEM AMRL-TDR-62-98/2/

DEVICE FOR MEASUREMENT OF RADON IN BREATH N64-17466

UR-640

MECHANICAL IMPEDANCE
MECHANICAL IMPEDANCE MODEL TO DEVELOP
QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION

A64-27599

MECHANICAL PROPERTY

COMPRESSION

ELASTICITY **FAILURE**

PERMEABILITY

THERMAL STRESS

MECHANICS /GEN/

CF HYDRODYNAMICS CF KINETICS

ANATOMY, PHYSIOLOGY AND MECHANICS OF HUMAN MOTION WITH APPLICATIONS TO PHYSICAL EXERCISE

A64-80596

ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS DIRECTIONS IN MAN A64-80891

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS RADC-TDR-63-528 N64-15726

RECHANGERAN

NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP A64-80535

REDICAL ELECTRONICS

ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY

A64-80731

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH JPRS-17672

BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND APPLICATION TO OTHER BRANCHES OF MEDICINE JPRS-18967

MEDICAL RADIO TELEMETRY AND ELECTRONICS N64-12356

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN

MEDICAL ELECTRONICS, AND IN BIOENGINEERING JPRS-22994 N64-14149 N64-18827 ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE N64-14333 GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL FTD-TT-63-732/164 RACIOGRAPHY N64-23275 ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT PHENGEARDIOGRAPH FOR RECORDING HEART SOUND N64-25458 CONDITION N64-14334 FTD-TT-63-1193/18284 ELECTRONIC EQUIPMENT FOR MEDICAL RESEARCH AND USE OF PLASTIC MATERIALS IN MEDICINE N64-14335 JRRS-25587 N64-30391 FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY MEDICINE /GEN/ SA CASE HISTORY CF AEROSPACE MEDICINE CF CLINICAL MEDICINE PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM CF DENTISTRY CF DERMATOLOGY CF HISTOLOGY N64-15398 ARCH-20 CE RADIATION MEDICINE CF RADIOLOGY PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT N64-17244 SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS JPRS-23749 A64-80007 EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR N64-20811 A64-80273 OU-107 TITAN II MEDICAL SUPPORT AND TRAINING OF FLYING PERSONNEL MEDICINE IN USSR - GENETICS IN HIGH ALTITUDE FLYING A64-80394 JPRS-24398 N64-21850 MEDICAL AND BIOLOGICAL RESEARCH IN USSR LITERATURE REVIEW OF TELEVISION MICROSCOPY IN JPRS-24638 N64-21851 BICLOGY AND MEDICINE JPRS-18229 N64-10501 SPACE BIOLOGY AND MEDICINE MEDICAL JOURNAL - ACADEMY OF MEDICAL SCIENCES USSR JPRS-24943 N64-21866 N64-10513 JPRS-21526 SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS N64-21867 MEDICAL CONFERENCES ON MINERAL WATER USE, CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE PHYSIOLOGY, AND EPIDEMIOLOGY SPACE BIBLOGY AND MEDICINE N64-21868 JPRS-21836 SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING N64-21869 MEANS & METHODS OF USING ELECTRONICS IN SCIENTIFIC & PRACTICAL MEDICINE CHIMPANZEE MEDICAL RECORDS N64-10682 JPRS-17497 ARL-TDR-64-5 N64-22280 SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, MEDICAL RESEARCH ON HUMAN BODY HYPERTENSION, AND THERAPEUTIC UNDERWEAR JPRS-25241 N64-22744 JPRS-17498 MEDICAL AND BIOLOGICAL RESEARCH RROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL N64-22851 SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS UCRL-11184 N64-11124 JPRS-19043 MEDICAL RESEARCH - NATURAL POLYMERS, HEMATOLOGY, SURGERY, HYGIENE, ANTIBIOTICS, NUTRITION, AND CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE N64-11417 PHARMACOLOGY JPRS-25208 N64-23063 SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS RESEARCH N64-11516 N64-23639 CYBERNETICS IN MEDICINE & PHYSICLOGY N64-11918 JPRS-22377 BIOLOGY AND MEDICINE BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-FTD-TT-63-1013/182 N64-23694 MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED TRENDS OF SPACE BIOLOGY IN CONQUEST OF SPACE AEROSPACE ENVIRONMENTAL CHAMBER N64-23735 AEDC-TDR-63-256 LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE AND MEDICAL SCIENCES N64-12509 AD-436723 N64-24070 ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED BIOLOGICAL AND MEDICAL RESEARCH N64-24629 **ECOLOGICAL SYSTEM** TID-4201 N64-12811 POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE N64-25168 N64-13085 **ASTRONAUTS** MEDICINE IN UKRAINIAN S.S.R., ACCELE AEROSPACE MEDICINE, AND CHEMOTHERAPY MACHINE RECORD CARCS FOR RECORDING MEDICAL ACCELERATION AND HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-28432 JPRS-26116 N64-13466 SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING JPRS-22931 IN SPACEFLIGHT N64-14142 JPRS-26231 N64-28859 PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE

EXPERIMENTS NADC-ML-6410

N64-30169

BICASTRONAUTICAL CONTRIBUTIONS TO MEDICINE

N64-30343

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

N64-30344

INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS CASUALTY SITUATIONS N64-30754

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY
JPRS-26845

N64-32164

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY SP-1025/001/00 N64-32324

BLCOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES

MELANTHE

N64-33675

TOXICITY OF ISCALCCHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS FTD-TT-64-97/184 N64-25462

MELANTH

PRCLONGED SOLAR RACIATION EFFECT ON MELANOCYTES OF HUMAN EPIDERMIS A64-80534

HISTOLOGICAL ANALYSIS OF LABYRINTH PIGMENTED
CELLS - MELANIN CONTAINING MACROPHAGES
A64-80977

OXYGEN CONSUMPTION COLOR CHANGES IN HUMAN EPIDERMIS, AND EFFECTS OF PURE OXYGEN INHALATION MEASURED IN VIVO WITH CYCLOPS OXIMETER

A64-81207

MEMBRANE

SA ION EXCHANGE MEMBRANE
CF DIAPHRAGM
EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION
THROUGH THIN PLASTIC MEMBRANES
AD-437359
N64-24807

PASSIVE ION FLUX THROUGH AXON MEMBRANES

N64-29538

MEMBRANE STRUCTURE

BICLOGY - DISCUSSION ON CELL-CELL INTERACTIONS, MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND PHYSICAL CHEMISTRY OF INTERFACES NASA-CR-53290 N64-17601

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607 N64-20233

MEMORY

CF KINESTHESIS
CF LEARNING
CF PRACTICE
REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS
AFFECTED BY INTERPOLATED MONDCULAR AND BINOCULAR
VISUAL PURSUIT
A64-12934

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL IN MAN A64-80381

MEMORY SPAN AFFECTED BY BRIEF INTERPOLATED ACTIVITY A64-80575

SHCRT TERM STORAGE OF VISUAL INFORMATION AND PROPERTY OF MEMORY READ-OUT A64-80705

CODING STRATEGY EFFECT ON PERCEPTUAL MEMORY
A64-81199

IMPLICATIONS OF SHORT-TERM MEMORY FOR GENERAL THEORY OF MEMORY REPT.-2900-410-R N64-10553

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040 SHORT TERM MEMORY - NCNEQUIVALENCE OF QUERY AND MESSAGE ITEMS
ESD-TDR-64-254
N64-19670

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT TERM RECALL OF BRIEFLY EXPOSED DISPLAYS NAVTRADEVCEN-1303-1 N64-29814

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN MEMORY
NAVTRADEVCEN-1303-2
N64-29871

MEMORY STORAGE UNIT

MENTAL PERFORMANCE

CF PSYCHOMOTOR PERFORMANCE
PERFORMANCE OF ARITHMETIC TASK UNDER INTENSE NOISE
A64-80077

MOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE SUBSTITUTION AND MIRROR DRAWING

A64-80152

HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS
SYSTEM FUNCTION DURING RELATIVE SENSORY
DEPRIVATION A64-80235

MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED BODY TEMPERATURE A64-80272

SENSORY DEPRIVATION - HYPOTHESES OF MENTAL DETERIORATION AND MENTAL FACILITATION

A64-80346

A64-81135

SENSORY DEPRIVATION STUDIES CONDUCTED AT PRINCETON REVIEWED IN DETAIL A64-80378

NOISE EFFECTS ON PERFORMANCE OF INTELLIGENCE AND CONCENTRATION TESTS A64-80410

PHYSIOLOGICAL, PSYCHOLOGICAL, AND NUTRITIONAL FACTORS IN MOUNTAIN EXPLORATION ABOVE 5,000 METERS
A64-80433

CENTRAL NERVOUS SYSTEM FUNCTIONAL INTEGRITY
ASSESSED THROUGH RADIO-TELEMETRY DURING MANNED
SPACE FLIGHT
A64-80435

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION INPUT A64-80618

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL FACILITIES A64-80772

FALLING EFFICIENCY AT SORTING CARDS AND WEIGHT LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN HIMALAYAS A64-80915

ELECTRONYSTAGMOGRAPH RECORDING OF RESPONSE TO VARIED LIGHT AND SOUND, MENTAL PROBLEMS, ACTIVITY, AND CHEMICAL FACTORS RELATED TO TRAVEL SICKNESS

A64-80980

NOISE EFFECT ON HUMAN PERFORMANCE ON TASK
REQUIRING REGULAR SHIFT OF ATTENTION

A64-81004

ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA
RHYTHMS/ DURING MENTAL ACTIVITY IN HUMANS
A64-R1043

EVOKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION A64-81153

VISUAL DETECTION OF STIMULI WITH NOVELTY
ATTRIBUTE ON BACKGROUND OF FAMILIAR SYMBOLS
A64-81206

COMPARATIVE EFFECT OF CHLORMEZANONE, SINGLY AND IN COMBINATION WITH ASPIRIN, ETHANOL, AND PLACEBO ON HUMAN PERFORMANCE UNDER DELAYED AUDITORY FEEDBACK

A64-81240

PREDICTION OF ADAPTABILITY OF BASIC AIRMEN REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION N64-18906 AD-436571

MENTAL STRESS CF ANXIETY

HUMAN PEHAVIOR UNDER STRESS-COMBAT EXPERIENCE A64-80017 LEADING TO SOCIAL PSYCHIATRY

EMOTIONAL STRESSES AND FUNCTIONAL PROCESSES IN A64-80640

EMOTIONAL STRESS EFFECT ON BLOOD PRESSURE AND A64-80641 PULSE RATE IN MAN

EMCTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS WITH CENTRAL NERVOUS ACTION A64-80 A64-80653

PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE MEASUREMENT OF STRESS INTENSITY A64-80711

CATECHOLAMINE EXCRETION AND PERFORMANCE DURING A64-80743

BEHAVIOR IMPAIRMENT DUE TO STRESS - EXPERIMENT IN LONG-TERM PERFORMANCE OF 21 HOURS

A64-80798

EPILEPTIC CHARACTER OF ELECTROENCEPHALOGRAM AFTER MENTAL FATIGUE - DISTURBANCE IN CORTICAL AND SUBCORTICAL REGION IN RAILROAD PERSONNEL

A64-80937

VISUAL MONITORING PERFORMANCE AS INFLUENCED BY SECONDARY TASK OF SIMPLE MENTAL ARITHMETIC

MEPROBAMATE

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK

A64-80150

CARDICVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING A64-80352 EXERCISE

MERCAPTAN

S MERCAPTO COMPOUND

AMINO ACID ESTERS OF 2-MERCAPTOETHYLAMINE FOR A64-80909 RADIATION PROTECTION

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN UR-633

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF

MERCURY CAPSULE

CF SIGMA 7 RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT NASA-TN-D-1862 N64-28320

MERCURY PROJECT

PILOT PERFORMANCE IN COPING WITH CRITICAL SYSTEM FAILURES CURING MERCURY ORBITAL FLIGHTS A64-20127 AIAA PAPER 64-222

SPACE MENUS DEVELOPED FOR PROJECTS MERCURY AND A64-80397 GEMINI

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE N64-23609 AIAA PAPER-64-222

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR

UR-ENG-49-7

METABOLIC WASTE

CF MASTE DISPOSAL
BIOLOGISTIC SPECIFICATIONS AND ENGINEERING
CONSTRAINTS ASSOCIATED WITH OPTIMUM LIFE SUPPORT
SYSTEM TO SATISFY 30-, 60- AND 100-DAY MANNED
ORBITAL SPACE MISSIONS
AIAA PAPER 63-164
A64-1664

N64-19921

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -

BIOASSAY METHODOLOGY IPR-6

N64-14810

HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT AMRI-TDR-64-3

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752

WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE N64-26883 U413-64-056

MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE SAM-TDR-64-25

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION N64-29906 SERL-64-5

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112

METABOLISM

SA CARBOHYDRATE METABOLISM SA ELECTROLYTE METABOLISM

SA ENZYME ACTIVITY SA HORMONE METABOLISM

SA LIPID METABOLISM SA OXYGEN CONSUMPTION SA OXYGEN METABOLISM

SA PROTEIN METABOLISM

ENERGY REQUIREMENT CF PHOSPHORYLATION

CF PHOTOSYNTHESIS

VIBRATIONAL STRESS ON PLASMA AND URINARY

CORTICOSTERGID LEVELS

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS A64-80044

RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN A64-80079 SUPINE POSITION

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC FITNESS TESTED BY EXERCISE A64-80081

DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS

A64-80089

A64-22064

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A NEPALESE PILGRIM

ANOXIA INDUCED CHANGES IN METABOLITE CONTENT OF A64-80246 RABBIT LUNG

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING EXERCISE

ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM IN RABBITS

DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND A64-80411 MUSCLES BY EXERCISE

CELLULAR ADAPTATION TO UNFAVORABLE ENVIRONMENTAL FACTORS A64-80415

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON METABOLIC APPROACH A64-80446

CORONARY CIRCULATION AND HEART METABOLISM IN MAN EXPOSED TO DRY HOT ENVIRONMENT A64-80465

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64-80509

ULTRASCUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLCOD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND, PROSTATE GLAND, AND WHITE BLOOD CELL

A64-80566

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION
IN RAT AS RELATED TO XANTHINE OXIDASE
A64-80593

TOTAL FASTING EFFECT ON IDDINE METABOLISM IN MAN A64-806C7

WHCLE EDDY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICCSTEROID LEVELS A64-80636

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDICVASCULAR SYSTEM, MUSCLE, BONE, CTCLITH, AND SEMICIRCULAR CANAL A64-80645

CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

A64-80722

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-8087

METABOLIC RESPONSE TO COLD AND RELATIONSHIP
BETWEEN BODY TEMPERATURE AND BASAL METABOLIC RATE
OF UNDERFED RAT
A64-80903

RELATIONSHIP OF ELECTRICAL AND METABOLIC ACTIVITY IN OLFACTORY CAPSULE OF HIBERNATING HEDGEHOG A64-80935

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN SOURCE FOR CHLORELLA PYRENDIDOSA

A64-B0945

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER A64-80991

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /19,000 FEET/ ELEVATION IN HIMALAYAS A64-80995

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION
OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT
COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

A64-B1008

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO

MAXIMAL DXYGEN INTAKE PREDICTION STUDIED WITH RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE

A64-81017

REVIEW OF SOVIET ADVANCES IN FIELD OF HYPOXIA A64-81058

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS

A64-81085

ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL MORK - INVESTIGATION OF CARDIOVASCULAR AND METABOLIC CORRELATES IN MAN

A64-81088

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN, AND PHYSICAL STRESS A64-81156

EVIDENCE FOR TISSUE DXYGEN DEMAND AS MAJOR FACTOR
IN AUTOREGULATION IN DOG A64-81238

ENHANCEMENT OF PILOT PERFORMANCE CAPACITY BY ADEQUATE NUTRITION A64-81257

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND OXYGEN UPTAKE DURING HYPOXEMIA A64-81262

DIURNAL VARIATIONS OF GASTRIC SECRETION IN MONKEY A64-81312

EIGHT CONGRESS OF PHYSIOLOGY AND BIOCHEMISTRY OF MUSCULAR ACTIVITY, HELD IN VOLGOGRAD, USSR
A64-81313

ORGANISM FUNCTIONS AND METABOLISM DURING PHYSICAL TRAINING A64-81333

EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM
JPRS-21472
N64-10596

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR JPRS-17498 N64-10683

RESISTANCE OF INSECT METABOLISM AT ULTRALOW TEMPERATURE JPRS-18218 N64-10752

BLCOD GLYCOGEN METABOLISM IN MAMMALS AFTER
IONIZING RADIATION
JPRS-18479
N64-10769

VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS JPRS-18576 N64-10780

EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES POST-BURNING CHANGES IN METABOLISM
JPRS-22022
N64-10856

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS
RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT
EMBOLISM DURING DECOMPRESSION
DVL-273
N64-12751

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES AAL-TDR-63-33 N64-13632

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE
COLD EXPOSURE AT NIGHT
AAL-TDR-62-44
N64-13645

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE -ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO DXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA

N64-14603

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE DVL-205 N64-15034

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER

METAL SUBJECT INDEX

OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN N64-15045 ACCELERATION STRESS N64-33495 CARBON DIOXIDE BY CHLORELLA REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND N64-15046 CHEMISTRY JPRS-26991 N64-33957 TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN METAL PHCTOSYNTHETIC CELLS CF CALCIUM CF CESIUM GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS CF MAGNESIUM CF MANGANESE JPRS-23285 N64-15334 CF NIORIUM CF PLUTONIUM PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, CF POTASSIUM CF RADIUM CF RHENIUM PARATHYROID, AND HYPOTHYROIDISM CF RUBIDIUM N64-15398 CF SODIUM CF URANIUM PHGSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX CF ZINC N64-15955 INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC AD-43C174 THALLIUM AND ITS SALTS JPRS-25206 N64-23257 RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/182 METAL PROPELLANT N64-16377 S PROPELLANT ENCOCRINE & METABOLIC EFFECTS OF SHORT DURATION METEOR HYPERCXIA CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION SAM-TDR-64-6 N64-18917 **PROCESSES** EFFECTS OF IONIZING RADIATION ON METABOLIC METEORITE SA METEORITIC COMPOSITION CF CARBONACEOUS METEORITE CF CHONDRITE FTD-TT-62-1575/1&2 N64-22390 METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE CF ELEMENT ABUNDANCE CF IRON METEORITE ISOTOPE IN THYROID GLANDS OF RATS N64-22869 CF ORGUEIL METEORITE CF STONY METEORITE METABOLIC INDICES IN ASTRONAUTS HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND N64-23747 METEORITIC ALKANES PHYSICLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC HEASUREMENT OF HEMODYNAMIC AND METABOLIC NASA-CR-58500 N64-29202 PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS METEORITIC COMPOSITION NASA-CR-56348 N64-25768 METEORITIC INVESTIGATIONS FOR DETECTING
EXTRATERRESTRIAL LIFE, PARTICULARLY EXAMINATION OF
CARBONACEOUS CHONDRITES A64-10876 EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER
NASA-TT-F-224 N64-27036 MICROBIOLOGICAL ANALYSIS OF IRON AND STONE METEORITES, NOTING ABILITY OF BACTERIA TO PENETRATE INTO CENTRAL REGIONS METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES A64-18628 SM-45905 N64-27338 METEORITIC MICROSTRUCTURE PHYSICLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND NATURE OF ORGANIZED ELEMENTS IN ORGUEIL AND IVUNA METEORITES A64-80449 BIOLOGICAL MUTATION AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL UCRL-11387 N64-27799 METEORITE PARENT BODY AND SUSTENANCE OF LIFE RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28 464-80451 ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES N64-28947 SUGGESTING BIOGENIC ORIGIN CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA METEOROLD METEOROID HAZARD SAM-TDR-64-44 N64-29288 METEOROID PROTECTION METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY METEOROID HAZARD
MANNED SPACE FLIGHT PROBLEMS AND POSSIBILITY OF IRRADIATION DASA-1422 N64-29941 LIFE ON OTHER PLANETS A64-80532 ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BIOLOGICAL AND ECONOMIC ASPECTS OF SPACE PRODUCTS DURING RADIATION INJURIES JPRS-26500 N64-30742 A64-80786 ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION AMRI -TDR-64-54 OF SPACE CABIN N64-20749 N64-31943 INFLUENCE OF WATER INGESTION AND THIRST ON METEOROID PROTECTION PROTECTION AGAINST METEOROIDS DURING MANNED SPACE STARVATION METABOLISM FLIGHT NASA-TT-F-9106 METEOROLOGICAL INSTRUMENT
HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION,
MAINTENANCE, AND CONTROL OF TACTICAL
METEOROLOGICAL INSTRUMENTS PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS

N64-33399

NASA-TT-F-9120

ESD-TDR-64-437

N64-29751

METEOROLOGICAL PROBE

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH N64-32350

METEOROLOGICAL SATELLITE

TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BIOLOGICAL AND ECONOMIC ASPECTS OF SPACE

A64-80786

METEOROLOGY

EFFECT OF WEATHER AND CLIMATE ON PHYSIOLOGY A64-B0420

METER

DOSIMETER FLOW METER

MEASURING APPARATUS

METEROID HAZARD

BIGS I RECOVERY VEHICLE DESIGN AND EXPERIMENTAL A64-80275

METHACRYLATE

S POLYMETHYL METHACRYLATE

METHAPYRILENE

MOTION SICKNESS- EFFICIENCY OF LABORATORY TESTS
OF DRUG TREATMENT A64-RO A64-80151

METHOD

COMPUTER METHOD

MONTE CARLO METHOD

METRAZOL

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASCDILATING DRUGS
A64-806 464-R062R

MEYANTHE

INFLUENCE OF MEXAMINE ON REACTION OF PATIENT SUBJECTED TO RADIATION THERAPY N64-N64-30242

MICROBIOLOGY

CF CULTURE TECHNIQUE CF MICROORGANISM

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT

MARTIAN CONDITIONS SIMULATED FROM ASTROPHYSICAL DATA FOR MICROBIOLOGICAL INVESTIGATIONS

CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III AND IV

MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA MELANOGASTER CARRIED BY VOSTOK SPACECRAFT 464-23670

REVIEW OF BIOLOGICAL AND PHYSICAL FACTORS IN DRY HEAT STERILIZATION A64-24979

UNMANNED SPACECRAFT STERILIZATION AND NAVIGATION TO AVOID INTERPLANETARY CONTAMINATION

A64-24982

GNOTOBIOTIC TECHNIQUES DEVELOPED TO PROVIDE HIGH ORDER OF STERILITY FOR FABRICATION OF STERILE 464-24983

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11676 N64-11670

ELEMENTARY HYDROCARBON MICROBIOLOGY

ASD-TDR-63-752

N64-21501

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONGLITH OF MINERAL ICE FTD-TT-63-926/162 N64-21662 MICROBIOLOGY - ANNOTATED BIBLIOGRAPHY

FTD-TT-63-1009/162

N64-23432

MICROBIOLOGICAL AND CYTCLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

PRODUCTION METHOD FOR CONTROLLED MICROBIOLOGICAL

CORROSION ON TEST SPECIMENS ADN-09-08A-63.1 N64-23899

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES NASA-TT-F-233

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION SERL-64-5 N64-29906

GENERAL SCIENCE - METABOLISH, MICROBIOLOGY, AND CHEMISTRY N64-33957

JPRS-26991

MICROELECTRONICS MICROSPECTROPHOTOMETRY

N64-14740

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIDELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS N64-30240

MICROMEROGRAPH PARTICLE SIZE

MICROORGANISM

CF ALGAE CF BACTERIA CF FUNGUS

CF MICROBIOLOGY CF PLANKTON

COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROCRGANISMS IN SIMULATED MARTIAN ENVIRONMENT A64-14461

SOLAR ULTRAVIOLET RADIATION EFFECTS ON MICROORGANISMS AND RELATION TO GERM TRANSPORTATION IN INTERPLANETARY SPACE A64-24973

BIOLOGICAL CONTAMINATION OF MARS BASED ON TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED
MARTIAN ENVIRONMENTS A64-24 A64-24978

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON MICROORGANISMS 464-24980

SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON MICROPRGANTSMS

CONTROL OF RODENT POPULATION AND POTENTIAL VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS A64-80913

ENVIRONMENTAL BIOPHYSICS, ORIGIN OF LIFE AND EXTRATERRESTRIAL MICROBIAL LIFE

A64-81080

SURVIVAL OF EARTH MICROORGANISMS IN SIMULATED MARS **ENVIRONMENT** NASA-CR-52841 N64-11293

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION N64-11436

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE SAM-TDR-63-57 N64-13852

MICROORGANISMS IN HUMAN GINGIVAL TISSUES N64-13865

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288 N64-1518

MICROPARTICLE OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES N64-16643 COLLECTING MICRCORGANISMS IN UPPER ATMOSPHERE N64-19877 MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS ASD-TDR-63-242 N64-19892 MICROGRGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN SAM-TCR-64-3 N64-NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS -SOIL ENRICHMENT FTC-TT-63-1010/1 N64-22141 EFFECT OF SIMULATED SPACE ENVIRONMENTS CN VIABILITY OF MICROORGANISMS N64-22752 NASA-CR-50333 PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS BY NUTRITIONAL REQUIREMENTS NASA-CR-50397 EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE NASA-CR-50698 EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROGREANISMS NASA-CR-56524 EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT NASA-CR-56525 TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON NASA-CR-56529 N64-22790 TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE NASA-CR-56532 N64-22793 EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT NASA-TT-F-8825 N64-23042 NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROCRGANISMS FTD-TT-63-1016/1&2 N64-23655 AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR N64-23658 MICROCRGANISM CULTURES SURVIVAL OF MICROORGANISMS IN SIMULATED N64-25115 **ENVIRONMENT OF MARS SURFACE** CHEMICAL AND RADIATION STERILIZING AGENTS BIBLICGRAPHY OF EFFECTS ON MICROORGANISMS NASA-CR-58123 N64-26372 MICROCRGANISMS IN PERMAFROST N64-29018 FTC-TT-63-929/182 EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64 N64-29091

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS N64-32295 AD-602394 VIABILITY OF MICROORGANISMS IN SIMULATED SPACE N64-33099 NASA-CR-59092 BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICROORGANISMS N64-33345 JPRS-27146 MICROPARTICLE POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151 MICROSCOPY

SA ELECTRON MICROSCOPY

LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE JPRS-18229 FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION N64-15293 **MICROSTRUCTURE** SA METEORITIC MICROSTRUCTURE
MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY N64-21312 AD-600474 MICROWAVE MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE N64-12270 RADC-TDR-63-352 BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS N64-12357 MICROWAVE TREATMENT OF DISEASES JPRS-26038 N64-27670 APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES MICROWAVE APPARATUS WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE N64-18789 AMRL-TDR-63-130 MICROWAVE RADIATION
THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE PERSONNEL INCLUDING THOSE IN TECHNOLOGY A64-22814 MICROWAVE EXPOSURE OF DCGS CAUSES LEUCOCYTE CHANGES RELATED TO FREQUENCY, FIELD INTENSITY AND EXPOSURE DURATION

A64-464-25543 BIOLOGICAL EFFECT OF HIGH FREQUENCY ELECTRO-MAGNETIC FIELD A64-80014 RADIATION HAZARDS IN HIGH POWER RADAR A64-80076 EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE A64-80685 RADIATION BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND
CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO
CENTIMETER WAVES FOR 24 HOURS A64-8071 A64-80715 EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC A64-80830 SYSTEM IN DOG TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION JPRS-23287 N64-15335 MICROWAVE SPECTRUM ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE N64-28092 JPRS-26191 EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM A64-80306 MIDDLE EAR PRESSURE ORIGIN OF SINUSITIS AND OTITIS AND MECHANISM OF BAROTRAUMA IN AVIATORS AND TRAVELERS MIDDLE EAR PRESSURE DETERMINED BY MASTOID PUNCTURE

PROCEDURES DEVISED FOR DIVERS, SUBMARINERS, AND PILOTS FOR CHECKING THEIR ABILITY TO REGULATE PRESSURE IN MIDDLE EAR A64-A64-80949 MILITARY PSYCHIATRY
HUMAN BEHAVIOR UNDER STRESS-COMBAT EXPERIENCE
LEADING TO SOCIAL PSYCHIATRY
A64-8 A64-80017

ADAPTION TO DESERT CONDITIONS - A PSYCHIATRIC SURVEY AMONG U.S. ARMY PERSONNEL IN THE LIBYAN SAHARA RELATING FINCINGS TO SENSORY DEPRIVATION A64-80C18

MILLIMETER WAVE S MICROWAVE

MINERAL

CE SOIL PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL N64-23782

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112

CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALDGY BM-RI-6423 N64-18987

MINIMUM VARIANCE ORBIT DETERMINATION /MINIVAR/ S COMPUTER PROGRAM

MINKOWSKI THEORY

PERCEPTUAL THEORY OF RELATIVITY REGARDING SPACE AND TIME AS INSEPARABLE A64-24 A64-24406

SPACE PERCEPTION AND RELATION TO TIME BASED ON MINKOWSKI THEORY A64-80490

MIOSIS

PILOCARPINE INDUCED MIOSIS AND PROTECTION OF RETINA AGAINST THERMAL RADIATION

A64-80626

MISSILE

BALLISTIC MISSILE

MISSILE CONTROL

TITAN II ICBM TITAN III ICBM

MISSILE CONTROL

LIVING NEURAL NETWORKS IN ELECTRONIC TARGET RECOGNITION SYSTEMS FOR MISSILE GUIDANCE

A64-25994

MISSILE SYSTEM

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS N64-25823

MITOSIS

CF CELL DIVISION

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT

MITCSIS AND CHLOROPHYLL CONTENT IN CULTURES OF CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR SHORT AND PROLONGED PERIODS A64-80809

DIURNAL MITOTIC RHYTHM IN TISSUE CULTURES OF MONKEY KIDNEY

24-HOUR PERIODICITY OF MITOTIC DIVISION OF CELLS AND GLYCOGEN CONTENT IN LIVER OF RAT

A64-81307

IONIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF MITCSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-81308

MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORADIOGRAPHY N64-10069

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING NASA-CR-52635

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH NASA-RP-196 N64-220 N64-22071

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT NASA-TT-F-8825

N64-23042

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL DIVISION N64-24008

MIXTURE

S GAS MIXTURE

MOBILITY

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION

N64-11524

MOISTURE

S HUMIDITY

S MANNED ORBITAL LABORATORY /MOL/

MOLECULAR BEAM

HIGH-SPEED HIGH-INTENSITY MOLECULAR BEAM NASA-CR-52865

N64-11260

MOLECULAR ELECTRONICS

COMPUTATIONAL PRINCIPLES IN LIVING ORGANISMS, COVERING PARALLEL NETWORKS WITH UNALTERABLE INTERNAL STRUCTURE AND CYNAMICALLY ADAPTIVE SYSTEMS A64-24405

MOLECULAR ION

PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS INCLUDING DEVICES FOR MEASURING CONCENTRATION AND A64-24167 MOBILITY

MOLECULAR PHYSICS

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS JPRS-25651 N64-26086

MOLECULAR SIEVE CARBON DIOXIDE MANAGEMENT IN SPACECRAFT ATMCSPHERES USING MOLECULAR SIEVES AND REDUCED A64-80536

MOLECULAR STRUCTURE

ORGANIC MOLECULAR STRUCTURE OF TERRESTRIAL NATURAL PRODUCTS IDENTIFIED AND DETERMINED BY MASS A64-18845

INTRAMOLECULAR RECRGANIZATION IN ALCOHOL DEHYDROGENASE AND PROTEINASE OF B. SUBTILIS DUE TO SUBZERO TEMPERATURES A64-24969

STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, CORRELATION BETWEEN FORMS OF MOTION & FORMS OF

JPRS-21806

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS N64-17973

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-N64-19439

FLEXIBILITY OF MOLECULES OF NATURAL DNA - DETERMINATION USING LIGHT SCATTERING AT LARGE N64-19783

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY NASA-CR-56227 N64-241 N64-24110

INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE JPRS-26841 N64-31840 MOLECULAR WEIGHT

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE
SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR
WEIGHT ORGANIC COMPOUNDS

-86 N64-

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT PCLYMERS IN RABBITS N64-31343

MOLECULE

SA MACROMOLECULE
AIR PURIFICATION IN CLOSED ECOLOGICAL SYSTEM BY
BACTERIA WHICH UTILIZES MOLECULAR HYDROGEN FROM
ELECTROLYSIS OF WATER IN REDUCING CARBON DIOXIDE
CONTENT
A64-1854

CORRELATION OF AMINO ACID RADICALS IN PROTEIN MOLECULES N64-18518

MOLECULAR BIONICS

N64-18837

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE
SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR
MEIGHT ORGANIC COMPOUNDS

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531 N64-22792

MOMENTUM

S ANGULAR HOMENTUM

MONITOR

PERSONALIZED RADIO TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONDITIONS

A64-23809

RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND CONTROLLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS A64-24126

HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING PILOTS LINE OF SIGHT AS HEAD ROTATES

A64-24832

IMPEDANCE PNEUMOGRAPHY FOR LONG-TERM MONITORING AS COMPARED TO OTHER PNEUMOGRAPHIC METHODS FOR HUMAN AND CHIMPANZEE STUDIES A64-80848

ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS MONITOR A64-81110

BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE SID-63-755

N64-10137

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION NACC-MA-6323 N64-13831

PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSICLOGICAL MONITORING SYSTEM AMRL-TOR-62-98/2/ N64-13872

HUMAN ENGINEERING IN MONITORING AND CHECKOUT
EQUIPMENT
WDL-TR-1968 N64-13972

MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY
OF BROCKHAVEN NATIONAL LABORATORY
BNL-807/T-310/
N64-14395

LATENT IMAGE FADING IN RADIATION MONITORING FILMS
DURING STORAGE BEFORE DEVELOPMENT
AFCI - 1872
N64-14731

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION

PROBLEMS.

N64-25355

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK SAM-TDR-64-34 N64-29794

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS NADC-MI -6410 N64-30169

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY
EXERCISING SUBJECTS
SAM-TDR-64-38
N64-31050

MONITORING SYSTEM

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY
THROUGH PULSE WAVE VELOCITY MEASUREMENT
A1AA PAPER 64-216
A64-20483

ATMOSPHERIC MONITORING OF TOXIC LEVELS OF MISSILE PROPELLANTS A64-80230

CRANIAL BLOOD FLOW MEASURING TECHNIQUE USING ISOTOPE BOLUS PROPELLED TOWARD HEART FROM VENIPUNCTURE A64-80258

MONITORING TRACE CONTAMINANTS IN SIMULATED MANNED SPACECRAFT A64-80538

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE, MACACA NEMESTRINA, DURING SPACE FLIGHT
A64-80544

PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS A64-80546

BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATION OF SPACE FLIGHT A64-80554

SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION
PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY
CUES A64-80604

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS N64-20598

MONKEY

DISORIENTATION INDUCED BY HALLUCINOGENIC DRUGS IN MACACA NEMESTRINA A64-14000

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
STATES OF SPERMATOGENESIS A64-27144

CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABOONS DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND EXERCISE A64-80087

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY

A64-80113

HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION, VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY A64-80115

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR
IN JAVA MONKEY
A64-80335

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE,
MACACA NEMESTRINA, DURING SPACE FLIGHT
A64-80544

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS A64-80551

DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING A64-80591

RETINAL RESPONSES OF DARK ADAPTED MONKEYS, MACACA MULATTA, DURING STIMULATION WITH LIGHT

A64-80672

LEARNING SET PERFORMANCE, VISION, HEARING,

LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-8 A64-80834

DIURNAL MITOTIC RHYTHM IN TISSUE CULTURES OF A64-80881

VISUAL SIGNAL-FROM-NOISE DETECTION BY MONKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND SODIUM PENTOBARBITAL A64-80906

DIURNAL VARIATIONS OF GASTRIC SECRETION IN MONKEY A64-81312

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS UR-635 N64-10616

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PREDUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE COSES JPRS-22121 N64-11274

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES SAM-TDR-63-93 N64-12865

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS SAM-TDR-63-55 N64-13C78

CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS
DUE TO ASPHYXIA DURING BIRTH N64-146 N64-14600

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENTYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA N64-14606

HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL NASA-CR-55517 N64-16328

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS

STRUCTURAL CHANGES IN VISUAL ANALYZER OF MONKEYS AFTER EXTIRPATION OF CERVICAL LOBES JPRS-24800 N64-21043

VARIOUS STUDIES OF BRAIN REACTIONS IN MONKEYS NASA-CR-58038 N64-27284

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PRCCESSES IN MONKEYS NASA-CR-56886 N64-27890

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS AMRL-TDR-64-48 N64-29938

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETHYLISOTHIURONIUM DIBROMIDE SAM-TDR-64-40 N64-32031

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH **ELECTRODES** NASA-CR-59001 N64-33041

MONOCULAR VISION
STEREOSCOPIC DEPTH PERCEPTION LOSS WITH LOCAL MONOCULAR SUPPRESSION A64-80959

MONOCULAR AND BINOCULAR COMPARISON OF APPARENT SIZE A64-81303

MONOPROPELLANT

- LIQUID PROPELLANT PROPELLANT

MONOXIDE

S CARBON MONOXIDE

MONTE CARLO METHOD MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS

WGLR-6/1963

N64-11863

MOON

CF LUNAR BASE CF LUNAR ENVIRONMENT CF LUNAR GRAVITATIONAL EFFECT CF LUNAR LANDING PROGRESS OF MAN IN SPACE AND EXTRATERRESTRIAL LIFE - A POPULAR REVIEW A64-80238

EXPLORATION OF MOON - PHYSICAL CHARACTERISTICS OF MOON, LIFE SUPPORT SYSTEM IN ESTABLISHING MCON COLONY AND FLIGHT TO MOON A64-8066 A64-80665

TERRESTRIAL MICROCRGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON NASA-CR-56529 N64-22790

MOON ILLUSION

PILOT AND ASTRONAUT OBSERVATIONS COMPARED TO THEORIES CONCERNING MOON ILLUSION IN SPACE A64-20701

MOON ILLUSION DURING MANNED SPACE FLIGHT A64-80507

MCCN ILLUSION TESTED UNDER SIMULATED CONDITIONS

PROVIDING VARIETY OF VISUAL CUES

MORPHINE

COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE AAL-TDR-62-50 N64-23109

HORPHOLOGICAL INDEX
PHYSICAL FITNESS TESTS EVALUATED BY MORPHOLOGICAL

INDEX VERSUS CARDIOVASCULAR STRESS TESTS

464-80412

MORPHOLOGY

SA MORPHOLOGICAL INDEX MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION JPRS-21776 N64-10207

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES JPRS-17717

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA JPRS-18855 N64-10867

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING JPRS-20037

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS N64-14133

SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA -MORPHOLOGICAL CHANGES

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE JPRS-24056

MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID NASA-TH-X-51514 N64-22772 VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277 N64-24630

MORPHELOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG

THE STATE OF MAN

NORMAL FECAL BACTERIAL FLORA OF MAN -MORPHCLOGICAL TYPE CULTURES NASA-CR-59257

N64-33288

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTCPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION NASA-CR-59305 N64-33514

MOSS

MANNED ORBITAL SPACE STATION /MOSS/

HTOM

INSECT

MOTION

SA ION MOTION
CF ACCELERATION
CF AUTOKINESIS
CF DECELERATION
CF VELOCITY
VISUAL PERCEPTION OF MOVEMENT AND ILLUSIONS
CONSIDERED FROM VIEWPOINT OF AEROSPACE MEDICINE
A64-80214

EQUILIBRIUM FUNCTION ANALYSIS THROUGH NEWLY DEVELOPED STRAIN-GAGE-TYPE INSTRUMENTS

A64-80253

ADAPTATION TO MCTION - RELATION TO VESTIBULAR
APPARATUS AND CENTRAL NERVOUS SYSTEM
A64-80437

PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT MOVEMENT AS FUNCTION OF BACKGROUND STIMULI

ANATOMY, PHYSIOLOGY AND MECHANICS OF HUMAN MOTION WITH APPLICATIONS TO PHYSICAL EXERCISE

A64-80596

MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS UNDER ZERO AND LUNAR GRAVITY CONDITIONS

A64-8083

NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND ARCUSAL A64-81028

VISUAL PROBLEMS OF LUMINESENCE, MOTION, AND DESIGN IN OBSERVING SATELLITE FROM ANOTHER SATELLITE A64-81162

STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER JPRS-21806 N64-1026

WALKING RESPONSES UNDER LUNAR AND LOW GRAVITY
CONDITIONS
AMRL-TDR-63-112 N64-13873

MOTION AFTEREFFECT
NOTION AFTEREFFECT CONSIDERED WITH RESPECT TO ITS
ORIGIN
A64-80470

TRACKING ROTARY MOTION AFTEREFFECT WITH DIFFERENT ILLUMINATIONS OF INSPECTION AND TEST FIELDS

A64-80587

MOTION PERCEPTION
VISUAL ILLUSIONS OF MOTION USING FLASHING LIGHTS
AND THEIR ASSISTANCE IN CLARIFYING NEURAL
MECHANISMS
A64-26707

MOTION PERCEPTION - ADAPTATION IN PERCEPTION OF ROTATING PATTERN A64-80357

MOTION PERCEPTION -- STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, TIME, AND DISTANCE A64-80402 MOTION PERCEPTION - RELATION BETWEEN SUBJECTIVE VELOCITY, SPACE, AND TIME AS RELATED TO CORRESPONDING PHYSICAL VARIABLES

A64-80464

MOTION PERSPECTIVE - PERCEPTION OF VISTA MOTION A64-80578

ACCURACY OF SPACE PERCEPTION AS FUNCTION OF IRREGULARITY AND REDUNDANCY OF SURFACE TEXTURE A64-80714

APPARENT DISTANCE IN HORIZONTAL PLANE WITH
TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE
PERCEPTION A64-80969

EYE MOVEMENTS INVESTIGATED IN RELATION TO VISUAL ACUITY FOR MOVING OBJECT A64-81032

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS WITH NORMAL VISION AND WITH VARIOUS VISUAL ANOMALIES A64-81033

SPATIAL AFTEREFFECTS WITHIN AND BETWEEN KINESTHESIS AND VISION A64-81197

PERCEPTION IN HUMAN OF RHYTHMICALLY REPEATED LINEAR MOTION IN VERTICAL PLANE AT DIFFERENT FREQUENCIES AND EFFECT OF VESTIBULAR APPARATUS

A64-81230

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL
TARGET DURING VERTICAL ACCELERATION
NASA-CR-59180 N64-33159

MOTION SICKNESS
EMOTIONAL INSTABILITY AND SUSCEPTIBILITY TO MOTION
SICKNESS MEASURED BY PSYCHOLOGICAL TESTS,
INCLUDING THE RORSCHACH

A64-10249

MOTION SICKNESS- EFFICIENCY OF LABORATORY TESTS
OF DRUG TREATMENT A64-80151

MOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE SUBSTITUTION AND MIRROR DRAWING

A64-80152

NAUSEA AND VOMITING IN SUBJECTS EXPOSED TO VERTICAL MOTICN AT WARM AND MODERATE TEMPERATURE A64-80153

MECHANISM OF MOTION SICKNESS IN CAT

A64-80234

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED
QUANTITATIVELY A64-80255

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT A64-80280

PENSACOLA SLOW ROTATION ROOM IN DISORIENTATION AND MOTION SICKNESS STUDIES A64-80976

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISORIENTATION, & BLACKOUT N64-1345

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT SAM-TDR-63-9 N64-13931

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABVRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621 N64-15347

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS NASA-CR-55620 N64-1534

PREVENTION AND TREATMENT OF MOTION SICKNESS FTD-TT-63-287/184 N64-16418

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS

N64-22437

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY NASA-RP-215 N64-23377

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS AMRL-TDR-64-47

N64-28562

MOTION SICKNESS DRUG CENTRALLY EVOKED NYSTAGNUS IN ANIMALS SUBJECTED TO VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS DRUG

644-80953

MOTIVATION

BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MOTIVATION

A64-80005

SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION

A64-80C78

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY A64-80131

NONDEPRIVATION FACTORS IN PRODUCTION OF SENSORY
DEPRIVATION EFFECTS- PSYCHOLOGY OF PANIC BUTTON
A64-80137

PHYSICLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

BUTTON-PRESSING FOR TIME-OFF REWARD DURING SENSORY
DEPRIVATION RELATED TO SUBJECTIVE RATING OF
WELL-BEING
A64-81144

MOTIVATIONAL INTENSITY AND RELEVANCE EFFECT ON ATTENTION SPAN AND SCANNING A64-B1147

PHYSICLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER STRESS AND DEPRIVATION A64-81176

PURSUIT ROTOR PERFORMANCE WITH POSITIVE AND NEGATIVE APPROVAL MOTIVATION A64-81216

VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES
N64-12752

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS AMRL-TCR-63-122 N64-15518

TRAINING, MOTIVATION, AND HUMAN ENGINEERING AD-446448 N64-29918

MOTOR SYSTEM /BIOL/
SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR
PERFORMANCE

LATENT PERIOD OF MOTOR RESPONSE OF MAN UNDER ISCLATION CONDITIONS NOTING ROLE OF ORIENTING REFLEX A64-25592

VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE
CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY,
CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO
TWO-MAND CRANKING TASK
A64-26851

ELECTROMYOGRAPHIC ANALYSIS OF SIMPLE VOLUNTARY
MOVEMENT AND SPREAD OF EXCITATION TO CONTRALATERAL
INACTIVE EXTREMITY

A64-80047

SPINAL MOTOR RESPONSE TO ACOUSTIC STIMULATION IN LIGHTLY STRYCHNINIZED CAT A64-80962

ORGANISM FUNCTIONS AND METABOLISM DURING

A64-81333

DISARRANGED EYE-HAND COORDINATION

N64-22061

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL, INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM IPST-1014 N64-22232

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY NASA-RP-215 N64-23377

MOTOR REACTION TIME IN HUMANS UNDER ISOLATION CONDITIONS N64-23758

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI NASA-CR-58548 N64-28833

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS N64-30240

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE
IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC
INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH
TO LEARNING, AND EYE MOVEMENT CONTROL
JPRS-26014
N64-30321

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL N64-30325

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL NUCLEI N64-31543

HOUNTA IN

ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIF OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND SEA LLVEL A64-80168

MOUNTAIN INHABITANTS
CF ALTITUDE ACCLIMATIZATION
ALTITUDE ACCLIMATIZATION IN NATIVES OF THE
PERUVIAN ANDES
A64-80136

PULMONARY CIRCULATION IN HIGH ALTITUDE NATIVES
A64-80183

EDEMA AT HIGH ALTITUDE IN RELATION TO CARDIOVASCULAR PHYSIOLOGY A64-80276

PHYSIOLOGY OF NATURAL ACCLIMATIZATION OF MAN BORN AND LIVING IN HIGH ALTITUDE ENVIRONMENT A64-80432

MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE
A64-80660

NORMAL VALUE OF BLOOD PRESSURE IN RESIDENTS OF KIRGIZIA MOUNTAINS A64-B1284

MOUSE

PHYSICAL STRESS EFFECTS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN MICE A64-80015

PHYSIOLOGICAL EFFECT OF HIGHLY DXYGENATED ENVIRONMENT AND SURVIVAL IN MOUSE A64-80193

MO4-00193

ELECTRIC FIELD EFFECT ON ACTIVITY AND RADIATION STRESS IN MICE A64-80334

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES
CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN
A64-80499

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMOEBA, PELOMYXA CAROLINENSIS A64-80505

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES A64-80614

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD SHIELDED COSMIC RADIATION A64-80 A64-80615

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI INOCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE AND AT SEA LEVEL

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION A64-80687 SICKNESS IN MICE

DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION IN TWO STRAINS OF MICE A64-80726 A64-80726

FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

A64-80729

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY A64-80815

ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC A64-80841 FIELDS

POST-MORTEM PULMONARY CHANGES OCCURRING IN MICE EXPOSED TO 100 PER CENT DXYGEN AT 740 MM HG A64-80856

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER A64-80920 HIGH PRESSURE

REDUCTION OF RETROACTIVE EFFECT OF INTERPOLATED MAZE TRAINING IN HYPOTHERMIC MICE

FUNCTIONAL STATE OF ORGAN OF EQUILIBRIUM IN WHITE MOUSE GROWN WITH DAILY EXPOSURE TO ACCELERATION A64-81023

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

RADIATION PROTECTION EFFECT IN MOUSE OF NEW A64-81157 PSYCHOTROPIC DRUGS

IONIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF MITOSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-81308

MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY AUTORACIOGRAPHY N64-10069 JPRS-21629

RADIATION DAMAGE TO DVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE — BIBLIOGRAPHY JPRS-18045

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION N64-10807 JPRS-18904

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES JPRS-20421 N64-11355

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE N64-11359

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-1 N64-11703

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE N64-12270 RADC-TDR-63-352

LEUKOSIS IN MICE DUE TO IONIZING RADIATION N64-12724

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE - STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE N64-13161 JPRS-22625

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO N64-13163

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF N64-13505 RADIATION EXPOSURE IN MICE

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT

N64-13506

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL N64-13509 CAGES AFTER SINGLE X-RAY DOSE

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD CLEARANCE OF CARBON & BACTERIA IN MICE N64-13629 AAI -TDR-63-1

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE AAL-TDR-63-13

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED N64-15203

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE N64-15217 WITH VARIOUS HEAVY IONS

STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH N64-15902 NASA-CR-55553

SURVIVAL OF MICE IN ABSENCE OF INERT GAS

N64-17953

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE N64-18096 JPRS-24056

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES N64-18409

EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE N64-18874 AAL-TDR-63-9

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES.
THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND
EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS

COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS AND MICE AAL-TDR-62-50

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE

JPRS-25277

N64-24630

OF DOG

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE NA SA-CR-58526 N64-28838

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH N64-31035

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PRCPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF N64-31348

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD AAL-TDR-63-3 N64-31934

MUCCCELE

FRONTAL MUCOCELE REVEALED BY BAROTRAUMA

A64-80034

MULTIPLE-DEGREE-OF-FREEDOM SYSTEM HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796

MUSCLE

RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK DURING POSITIVE PRESSURE BREATHING

A64-13751

HIGH ALTITUDE EFFECTS IN MUSCULAR EXERCISE INCLUDING WORK RATE, DXYGEN INTAKE, VENTILATION AND HEART RATE

A64-23: A64-23257

ELECTROMYOGRAPHIC ANALYSIS OF SIMPLE VOLUNTARY
MOVEMENT AND SPREAD OF EXCITATION TO CONTRALATERAL
INACTIVE EXTREMITY

A64-B0047 A64-80047

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE
OF OCULAR AND NECK MUSCLES
A64-ROO A64-80072

MUSCLE LOADING AND ENDURANCE IN MALES AND FEMALES A64-80093

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY CENTRAL NERVOUS SYSTEM IN RABBIT

A64-80239

EAR DRUM MOVEMENTS FOLLOWING STIMULATION OF MIDDLE EAR MUSCLES A64-80296

REFLEX CONTROL OF ABDOMINAL MUSCLES DURING POSITIVE PRESSURE BREATHING A64-80310

RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN A64-80312

DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND MUSCLES BY EXERCISE A64-B04 A64-80411

ADRENOCORTICOTROPIN AND ADENOSINE TRIPHOSPHATE EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS

A64-80606

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT A64-80724

UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF PIGEON DURING EXERCISE A64-80734

LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL MUSCLE IN HUMAN A64-80966

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT A64~80985 CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN

LOCAL REGULATION OF BLOOD FLOW IN SKELETAL MUSCLE

MAN AND DOG A64-81209

FLUID EXCHANGE ACROSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

A64-81244

BLOOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET

ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES JPRS-19287

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION JPRS-22082 N64-12886

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE

N64-12887

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS JPRS-22995 N64-14074

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW N64-17928

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING

N64-17929

A64-80080

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION JPRS-24606 N64-21826

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS JPRS-25630

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES N64-31544

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE JPRS-27192 N64-33761

MUSCULAR FATIGUE HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC EXERCISE

MUSCULAR FUNCTION CF KINESTHESIS FUNCTIONAL RELATIONSHIP BETWEEN RESPIRATORY MUSCLES AND MUSCLES PERFORMING DYNAMIC WORK A64-80065

ELECTROMYOGRAPHIC STUDY OF HIP AND THIGH MUSCLE FUNCTION IN ROMBERG POSITION AND STANDING AT EASE A64-80383

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS

ENVIRONMENTS OR CIRCUMSTANCES

A64-80438

EYE MOVEMENTS AND MUSCLE ACTIVITY RESULTING FROM ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN A64-80461

RIB CAGE AND DIAPHRAGM CONTRIBUTIONS TO VENTILATION IN MAN

A64-80765

BRONCHIAL MUSCLE FUNCTION

A64-80956

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST

464-81054

WEIGHT LOAD EFFECT AND MOVEMENT SPEED ON COORDINATED ACTION OF ANTAGONIST PAIR OF MISCLES IN HUMAN

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM A64-81056 OF BODY FUNCTION

REACTION TIME AFFECTED BY NEUROMUSCULAR JUNCTIONAL TRANSMISSION IN MUSCLES UNDER MAXIMAL A64-81143 STRETCH

DEGREE OF ACTOMYOSIN VISCOSITY IN MUSCLE CONTRACTION IN HYPOXIA IN RAT

464-81268

MUSCULAR STRENGTH MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL LOCALIZATION OF VISUAL STIMULI IN UP-DOWN DIMENSION OF SPACE 464-20690

HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FCLLOWING FATIGUING ISOMETRIC A64-80080 **FXERCISE**

PRECEDING MUSCULAR ACTIVITY EFFECTS ON CAPACITY OF UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS A64-80600

EFFECT OF PRIOR MUSCLE EFFORT ON SYMMETRIC MUSCULAR STRENGTH AND ENDURANCE N64-26459 JPRS-25593

SA MOTOR SYSTEM /BIOL/ ELECTRICAL ACTIVITY IN HUMAN SKELETAL MUSCLES SKIN AND HEART INVESTIGATED TO DETERMINE ACTION POTENTIAL OF MUSCLE GROUPS

COLD STRESS - INTENSITY AND DISTRIBUTION OF REFLEX A64-80343 MUSCULAR ACTIVITY IN MAN

COLD STRESS - REGULATION AND DISTRIBUTION OF REFLEX MUSCLE ACTIVITY IN MAN A64 A64-80344

BODY TREMOR RELATED TO DIFFERENTIAL STIMULATION OF CENTRAL NERVOUS SYSTEM A64-80389 A64-80389

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTCLITH, AND A64-80645 SEMICIRCULAR CANAL

MICROVIBRATION, CONTINUOUS MUSCLE-ACTIVITY AND A64-80712 CONSTANCY OF BODY TEMPERATURE

MYCCARDIAL TENSION IN RAT AS RELATED TO PRESSURE OF OXYGEN AND DURATION OF EXPOSURE 464-80813

ACTION PCTENTIALS RECORDED BY SURFACE ELECTRODES OF QUADRICEPS, HAMSTRINGS, TIBIALIS ANTERIOR, AND TRICEPS SURAS MUSCLES DURING POSTURE CHANGE

ROLE OF AEROBIC WORK CAPACITY IN DETERMINING PHYSICAL PERFORMANCE OF ORGANISM DURING PHYSICAL A64-81072 EXERCISE

THALAMUS CONTROL OF VOLUNTARY MOVEMENT IN RAT A64-81179

AUTOREGULATION OF BLOOD CIRCULATION IN SKELETAL A64-81236 MUSCLE OF DOG

ISCMETRIC CONTRACTION OF HAND AND EFFECT ON BLOOD

SUPPLY TO FOREARM

A64-81311

EIGHT CONGRESS OF PHYSIOLOGY AND BIOCHEMISTRY OF MUSCULAR ACTIVITY, HELD IN VOLGOGRAD, USSR

A64-81313

ELECTROMYOGRAPHIC CHARACTERISTICS OF MUSCLE ACTIVITY WITH VARYING LOADS AND RATES OF MOVEMENT IN HUMANS A64-81315

ASYMMETRY IN MUSCULAR SENSE OF WEIGHT IN HUMAN A64-81316

PHYSICAL EXERCISE AND EFFECT ON BLOOD SERUM PROTEIN FRACTIONS IN ELDERLY PERSONS

A64-81332

DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM N64-10595 JPRS-21415

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDICVASCULAR SYSTEMS N64-10782

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

N64-11523

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN N64-11861 GUINEA PIGS

ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES N64-13376 JPRS-22782

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR N64-15384 ACTIVITY

HUSCULAR TONUS
VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA
EFFERENT MOTOR SYSTEM IN CAT
A64-8 A64-80240

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI A64-80496

STATIC VOLUME-PRESSURE CHARACTERISTICS OF RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN RELATION TO MUSCLE TONUS A64-81000

MUTATION

SA CONGENITAL ANOMALY CF GENETICS OF THE OFFICE OFFI A64-18577

MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA MELANDGASTER CARRIED BY VOSTOK SPACECRAFT A64-23670

BIOLOGICAL AND MUTATIONAL EFFECTS OF COSMIC A64-80443 RADIATION ON HUMAN SKIN TISSUE

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANGGASTER INSECTS N64-11680

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION. AND SHIELDING ACTION OF CYSTAMINE JPRS-22083

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION N64-17707 UCRL-11191

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING

CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI

N64-19544

BIOSATELLITE PROJECT - MUTATION BY RADIATION AND BICPHYSICAL STUDIES NASA-CR-50046 N64-22757

MAPPING OF GENETIC SITES ON CHRCMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826 N64-23043

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BICLOGICAL MUTATION UCRL-11387 N64-27799

TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID COMPONENTS AND ROLE IN MUTAGENESIS

N64-28035

MYCPIA

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS WITH NORMAL VISION AND WITH VARIOUS VISUAL **ANCHALIES**

NASA PROGRAM CF SPACE PROGRAM SPACE MEDICINE IN THE MANNED SPACE FLIGHT PROGRAM CE NASA A64-80213

PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA BIOSATELLITE PROGRAM. A64-80261 A64-80261

COMPARISON OF SELECTION STANDARDS FOR ASTRONAUTS AND PILOTS

FUNCTION OF PROJECTS GEMINI AND APOLLO IN MANNED

BICTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA -BICASTRONAUTICS A63-10208 N64-10302

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH NASA-TH-X-51344 N64-14866

NAVIGATION

CF MARINE NAVIGATION CF NAVIGATION AND GUIDANCE STIMULUS CONTROL FOR BIRD ORIENTATION AND NAVIGATION A64-81175

NAVIGATION AND GUIDANCE SUN COMPASS ORIENTATION IN PIGEONS AFTER TRANSLOCATION NORTH OF ARCTIC CIRCLE

NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL LAMS-3027 N64-17241

CF RARE GAS SOLUBILITY OF NECN IN WATER AND EXTRACTED HUMAN FAT SAM-TDR-64-28 N64-24141

MEPHRITIS CF KIDNEY

NEPHRITIS AND RENAL CALCULUS IN FRENCH AIRCREMS A64-80032

NUCLEAR ENGINE FOR ROCKET VEHICLE /NERVA/

NERVOUS SYSTEM

CF BRAIN
CF CENTRAL NERVOUS SYSTEM

CF CEREBRAL CORTEX

CF CEREBROSPINAL FLUID
CF PERIPHERAL NERVOUS SYSTEM
CF SYMPATHETIC NERVOUS SYSTEM

CF SYNAPSE

FINDINGS IN NEUROPHYSIOLOGY, PSYCHOLOGY AND INSTRUMENTATION THAT SUGGEST INNOVATIONS IN HONITORING OF ASTRONAUT BRAIN

AAS PAPER 62-11

A64-11453

PROBABILISTIC AUTOMATA PROPOSED AS MODEL TO HANDLE CIRCUIT ACTION OF RETICULAR FORMATION

A64-24821

NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLOOD, AND TISSUE RESPIRATION IN RAT AND RABBIT

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO DXYGEN AT HIGH PRESSURE A64-80629

NERVOUS FACTORS CONTROLLING RESPIRATION AND CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF BLOOD FLOW A64-80957

ANALYSIS OF NERVE ACTIVITY IN INTACT NERVE BY CROSS-CORRELATION AND USE IN AUTOMATIC CONTROL A64-81039

CIRCULATORY RESPONSE TO HYPOXIA IN UNANESTHETIZED DOG WITH AND WITHOUT CARDIAC DENERVATION

A64-81061

PHYSIOLOGICAL CHANGES IN HUMAN UNDERGOING ACCLIMATIZATION TO SUBARCTIC ATMOSPHERIC CONDITIONS A64-81104

AGE FACTOR IN ADAPTATION OF HUMAN TO HYPOXIA A64-81247

NERVOUS SYSTEM CHANGES OF HUMAN ORGANISM AT 2000 METER ALTITUDE A64-81275

AGE FACTOR IN MAMMALIAN RESPONSE TO HYPOXIA A64-81291

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS JPRS-21492 N64-10066

DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS System with somatic muscular system N64-10595

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64~10757

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-1078 N64-10781

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDICVASCULAR SYSTEMS

N64-10782

FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON NERVOUS SYSTEM N64-10934

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM JPRS-19284 N64-11067

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION JPRS-20317 N64-11136

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

N64-11523

PHYSICLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS TPST-985

N64-11946

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515

RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS N64-13869 SAM-TDR-63-66

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO N64-14587

PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN NA4-14597 ENCEPHALOPATHY

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM

N64-14608

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY N64-16807 AMRL-TOR-63-105

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES N64-17351

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM

BIGELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES N64-25655 FTD-TT-63-1194/18284

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL CVERLOADS NASA-TT-F-230 N64-26784

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS N64-27066 JPRS-25861

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES N64-27501

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS JPRS-26042 N64-27636

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY N64-27693 AD-600259

IONIZING RADIATION EFFECT ON NERVOUS SYSTEM N64-28448 FTD-TT-63-582/182

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS N64-28916 FRL-8-0009-622

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION N64-29725

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION USNRDL-TR-670 N64-31175

PHYSICLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS N64-31457 JPRS-26427

MECHANISM OF NERVOUS RESPONSES IN LIZARDS

N64-31465

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL N64-31543 NUCLET

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES

N64-31544

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM

N64-31546

PROTEIN EXCHANGE IN NERVOUS SYSTEM JPRS-26846

N64-32747

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS N64-32776 JPRS-26725

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS

N64-32777

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION N64-33975 JPRS-27289

NETWORK

S GRID

NEURAL NET CF ARTIFICIAL INTELLIGENCE NEURAL NET FOR MODIFICATION OF YOUNG SAMPLED DATA MODEL FOR EYE TRACKING MOVEMENTS A64-23810

LIVING NEURAL NETWORKS IN ELECTRONIC TARGET RECOGNITION SYSTEMS FOR MISSILE GUIDANCE A64-25994

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS -CYBERNETICS N64-10759 JPRS-18372

ELECTROENCEPHALOGRAPHIC PATTERNS IN CASES OF CHRONIC EXPOSURE TO CARBON MONOXIDE CORRELATED WITH NEURASTHENIC SYMPTOMS A64-8 A64-80492

PHYSIOLOGICAL AND PSYCHOGENIC ASPECTS OF ACUTE; SUBACUTE, AND CHRONIC FATIGUE A64-80 A64-80930

NEUROLOGY CF DYSBARISM EFFECTS OF GRAVITY ON CENTRAL NERVOUS SYSTEM, SPECIFICALLY EFFECTS OF ACCELERATION AND VIBRATION

SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF A64-80013 INFORMATION THECRY

NEUROLOGICAL ABNORMALITIES IN CIVILIAN PILOTS AND AIR TRAFFIC PERSONNEL REQUIRING MEDICAL A64-80836 CERTIFICATION

HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL OCCIPITAL LOBECTOMY - NEUROLOGY JPRS-22690

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY N64-14944 JPRS-23234

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR N64-15384

ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES N64-15914

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID IPST-990

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL. INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM N64-22232 IPST-1014

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY N64-27693 AD-600259

NEURON

OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM A64-80241

ELECTROMECHANICAL METHOD FOR CONTINUOUS REGISTRATION OF ACTION POTENTIALS AND FREQUENCY SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER BIOLOGICAL VARIABLES

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC. AND ELECTRONYSTAGMOGRAPHIC RECORDINGS

A64-80681

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS

A64-80896

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

A64-81067

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592

BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS MIT-TR-416

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON

ACTIVITY - RETINA N64-18832

MATHEMATICAL MODELS OF NEURAL ACTIVITY

N64-18835

N64-18C62

BICPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN JPRS-24261 N64-19437

MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN

N64-19440

NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607

N64-20233 STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN -

NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID IPST-990 N64-22203

NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR MUSCLES

N64-25125

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS NASA-TT-F-230 N64-26784

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896 N64-27323

COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538

NEURON TRANSMISSION

ANALOG COMPUTER SIMULATION OF A NEURAL ELEMENT. USING LOCUS CONCEPT WITH EMPHASIS ON SYNAPTIC **FUNCTIONS**

COMPUTATIONAL PRINCIPLES IN LIVING ORGANISMS, COVERING PARALLEL NETWORKS WITH UNALTERABLE INTERNAL STRUCTURE AND DYNAMICALLY ADAPTIVE A64~24405

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,
TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON
VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80981

REACTION TIME AFFECTED BY NEURONUSCULAR JUNCTIONAL TRANSMISSION IN MUSCLES UNDER MAXIMAL STRETCH A64-B1143 NEUROPHYSIOLOGY

CF PSYCHOPHYSIOLOGY PROBABILISTIC AUTOMATA PROPOSED AS MODEL TO HANDLE CIRCUIT ACTION OF RETICULAR FORMATION

A64-24821

ORTHOSTATIC TOLERANCE LOSS IN REDUCED GRAVITY ENVIRONMENT, OBSERVING CHANGES IN BLOOD VOLUME CIRCULATION AND NEUROADRENERGIC SYMPATHETIC NERVOUS SYSTEM A64-24971

STIMULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE ACCELERATIONS A64-25600

VISUAL ILLUSIONS OF MOTION USING FLASHING LIGHTS AND THEIR ASSISTANCE IN CLARIFYING NEURAL MECHANISMS A64-26707

AUDITORY CORTEX RESPONSE OF UNANESTHETIZED CATS TO ACCUSTIC STIMULI A64-27135

ISOLATION AND SENSORY DEPRIVATION PHENOMENA RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION OF BIOLOGICAL RHYTHMS A64-80146

NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN AIRCRAFT ACCIDENTS A64-80243

NEUROHUMORAL CHANGES IN BLOOD OF DOG AND DOMESTIC FOWL AT HIGH ALTITUDE A64-81279

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM IPST-1014 N64-22232

NEUTRON

CF FAST NEUTRON RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS FTD-TT-63-1046/184

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE

N64-28038

N64-19220

NEUTRON IRRADIATION COMBINED ACTION OF NEUTRON IRRADIATION AND ELEVATED TEMPERATURE ON ANIMALS

JPRS-20379 N64-11433

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/18264

PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION DOSAGES FTD-TT-63-1050/18264 N64-23437

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN QPR-52 N64-29872

NEUTRON SPECTRUM
FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR
MEDICAL THERAPY FACILITY BEAM

NEVADA INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA UCLA-518 N64-12898

NIGHT VISION

MITNE-47

BLOOD-ALCOHOL CONCENTRATION IN SIMULATED DAY AND NIGHT DRIVING AND ITS EFFECT ON VISION

864-80009

N64-25472

NICBIUM CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST UR-646

NITRILE CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF N64-13505 RADIATION EXPOSURE IN MICE

CYANIDES AND NITRILES FOR RADIATION THERAPY -MEDICAL RACIOLOGY N64-32306 JPRS-26887

NITROBACTER

MECHANISM OF ELEMENTARY BIOSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER N64-16322 NASA-CR-55562

NITROGEN

ATMOSPHERIC NITROGENS ROLE IN BIOLOGICAL PROCESSES WITH PARTICULAR REFERENCE TO PHYSIOLOGICAL DESDIBATION

DECOMPRESSION SICKNESS IN RAT RELATED TO BODY FAT

TRANSPORT PROCESSES IN ORGANISM - EQUATIONS AND ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE A64-80562 OF NITROGEN

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, DXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

A64-80624

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN A64-80627 STAUL ATOR

UTILIZATION OF URINARY NITROGEN BY CHLORELLA PYREMOIDOSA FOR BIGLOGICAL REGENERATION SYSTEM FOR LONG TERM SPACE FLIGHT A64-80 A64-80828

DETERMINATION OF NITROGEN CONCENTRATION DURING BREATHING WITH MULTIPLE BREATH METHOD AND RELATION TO NORMAL PULMONARY VENTILATION

A64-80885

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN SOURCE FOR CHLORELLA PYRENOIDOSA

464-80945

CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD WITH SELECTED WHOLE BLOOD CONSTITUENTS N64-15743 SAM-TDR-63-92

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

N64-15856

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS N64-17937 CHROMATOGRAPHY

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS N64-17940

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG N64-17952

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION N64-19822 SAM-TDR-64-1

NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS -SOIL ENRICHMENT FTD-TT-63-1010/1 N64-22141

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS FTD-TT-63-1016/162 N64-23 N64-23655

OPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE N64-23656 BOTANY

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-DXYGEN MIXTURES AT LOW PRESSURES SAM-TDR-64-43

NITROGEN COMPOUND

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF N64-13507 X-RAYS

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION N64-21048 NIJS-R-422

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS N64-21056 NTJS-R-421

NITROGEN DIOXIDE

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

NITROGEN OXIDE S NITROGEN DIOXIDE

NITROPROPANE NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND A64-81152 HUMAN CASE REPORTS

NOISE

SA AIRCRAFT NOISE CF BACKGROUND NOISE CF CONTINUOUS NOISE

CF GAUSSIAN NOISE

CF IMPULSE NOISE
CF JET NOISE
CF NOISE MEASUREMENT
CF NOISE REDUCTION

CF SIGNAL NOISE CF THERMAL NOISE

QUANTITATIVE BLACK BOX MODEL FOR INTERPRETING DATA ON BINAURAL MASKING LEVEL DIFFERENCE AT HIGH A64-16091 FREQUENCIES

NOISE MASKED HEARING THRESHOLD FOR PULSES OF 800 CPS OVER WIDE RANGE OF PULSE DURATIONS AND BANDWIDTHS OF MASKING NOISE A64-213: A64-21336

NOISE EFFECTS ON DISCRIMINATION REACTION TIME A64-80010

PERFORMANCE OF ARITHMETIC TASK UNDER INTENSE NOISE A64-80077

NOISE EFFECT ON DETECTION OF VISUAL SIGNALS A64-80149

BINAURAL HEARING UNDER INFLUENCE OF INTERFERING NOISE - CONTRIBUTION TO CENTRAL NERVOUS PROCESSING OF ACOUSTIC INFORMATION

A64-80363

NOISE EFFECTS ON PERFORMANCE OF INTELLIGENCE AND CONCENTRATION TESTS A64-80410

NOISE EFFECT ON PERIPHERAL CIRCULATION & PHYSICAL A64-80413 EXERCISE

TRANSIENT ACCELERATION, VIBRATION, AND NOISE PROBLEMS IN SPACE FLIGHT - A REVIEW

A64-80478

NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND A64-80559 RABBIT

PHYSICAL AND PSYCHOPHYSIOLOGICAL ASPECTS OF NOISE AS RELATED TO VIGILANCE

COMPARISON OF SUBJECTIVE AND OBJECTIVE DATA
PERTAINING TO VIGILANCE TESTS, PSYCHOMOTOR
PERFORMANCE, AND NOISE EFFECTS A6

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION A64-80952

NOISE EFFECT ON HUMAN PERFORMANCE ON TASK RECUIRING REGULAR SHIFT OF ATTENTION

A64-81004

CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN MAMMAL CAUSED BY INTENSE ACQUITTE STIMULATION A64-81079

LOUDNESS FUNCTION OF 1000 CPS TONE IN PRESENCE OF MASKING NOISE A64-81166

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS USAPRO-TRN-135 N64-21741

NOISE HAZARD

AIRCRAFT NOISE AT AIRPORTS - EFFECT ON NEARBY COMMUNITIES AND ON WORKING ENVIRONMENT OF AIRPORT PERSONNEL A64-80369

ADAPTATION TO AND PROTECTION OF MAN FROM VARIOUS A64-R0436

PROTECTIVE AND PREVENTIVE ASPECTS IN HEARING LOSS DUE TO HIGH INTENSITY NOISE EXPOSURE IN MILITARY 464-8056R

NOISE - PHYSICAL CHARACTERISTICS AND AUDITORY AND NONAUDITORY EFFECT A64-81228

NOISE INJURY

COMPARISON OF BROADBAND NOISE AND CONTINUOUS SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS A64-21334

DIAGNOSTIC USE OF HEARING TESTS

A64-80004

ACOUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR RELATION TO ASSESSMENT OF HEARING LCSS AND OCCUPATIONAL DEAFNESS A64-80263

NOISE INDUCED DEAFNESS IN CAT

A64-80308

MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS EVOKED BY LOUD NOISE IN GUINEA PIGS

464-80367

MONAURAL ADAPTATION TO SOUND AND EFFECT OF NOISE EXPOSURE IN CONTRALATERAL EAR A64-80372

AUDIOMETRIC INVESTIGATION OF HEARING LOSSES SUSTAINED THROUGHOUT TEN YEARS OF NOISE EXPOSURE A64-80599

TEMPORARY HEARING LOSS FOLLOWING EXPOSURE TO PRONOUNCED SINGLE FREQUENCY BROADBAND NOISE

PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH SEXES BY NOISE EXPOSURE AND AGING

A64-80656

HEARING LOSS INDUCED BY BLAST INJURY AND BY LONG TERM NCISE EXPOSURE A64-80658

NOISE INTENSITY

EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF SIGNAL SOURCE LOCATION A64-19516

AUDITORY RESPONSE TO REPEATED EXPOSURE TO HIGH INTENSITY SOUND A64-80668

NOISE MEASUREMENT

NOISE RATING SCALES FOR EVALUATION OF INFLIGHT AIRCRAFT NOISE AAA-1 A64-12996

CHANGE IN FLUTTER RATES AND LOUDNESS OF NOISE BURSTS IN TERMS OF NEUROPHYSIOLOGICAL EVIDENCE AND AUDITORY THEORY A64-13301

DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT A64-13520

NOISE REDUCTION SOUND PRESSURE LEVEL MEASUREMENT, BY MEANS OF DATA ON NOISE SOURCE AND SOUND TRANSMISSION PROPERTIES IN PISTON AND JET AIRCRAFT

SIMULTANEOUS SOUND TRANSMISSION THROUGH AIR AND BONE FOR REDUCING AMPLIFICATION REQUIREMENTS AND NOISE LEVELS IN SPACE COMMUNICATIONS

A64-16388

NOISE THRESHOLD

THRESHOLD SIGNAL TO NOISE RATIOS FOR FILTERED THERMAL NOISE SIGNAL PRESENTED IN THERMAL NOISE A64-16090

HUMAN ANNOYANCE MEASUREMENT OF SIMULATED SONIC BOOMS AND AIRCRAFT NOISE A64-16711

INTEGRATION OF ENERGY BY EAR THRESHOLD TESTED, USING TONE PIPS AS STIMULI A64-17999

CONTRAST THRESHOLDS MEASURED UNDER CONDITIONS OF LUMINANCE NOISE IN BOTH BACKGROUND AND TARGET AREA A64-20347

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF TONE STIMULUS DURATION A64-26635

MODEL FOR INTERPRETING DATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF NOISE IN MASKING SIGNALS A64-27497

NOISE TOLFRANCE

ISE IDEERMICE COMPARISON OF BROADBAND NOISE AND CONTINUOUS SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS A64-21334

ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE VARYING IN INTENSITY, DURATION, NOISE SPECTRUM, FREQUENCY, AND NUMBER OF REPETITIONS

A64-80090

SUBJECTIVE EVALUATION OF DISCOMFORT CAUSED BY DC-8 AND CARAVELLE AIRCRAFT NOISE A64-80673

THRESHOLD OF DISTORTION EXPLORED FOR DETECTION OF SUSCEPTIBILITY TO ACOUSTIC TRAUMA

A64-80987

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY AD-420856 N64-32375

NONEQUIL IRRIUM S EQUILIBRIUM

NONEUCLIDIAN GEOMETRY NONEUCLIDEAN STRUCTURE OF VISUAL SPACE EMPLOYING VISUALIZED METHODS AVAILABLE IN PROJECTIVE GEOMETRY A64-24407

NONLINEAR SYSTEM
CF LINEAR SYSTEM
NONLINEAR CHARACTERISTICS OF CLOSED LOOP MANUAL CONTROL SYSTEM WITH COMPENSATORY TRACKING A64-24130

STATISTICAL SOLUTION OF NONLINEAR SYSTEM

N64-24705

NONMETAL METAL

PLASTIC MATERIAL

NOREPINEPHRINE

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

BLOOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA A64~80926

NORADRENALINE FUNCTION IN COLD ACCLIMATIZATION OF A64-81064

SLEEP-WAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE

AND SERCTONIN CONTENT IN CENTRAL NERVOUS SYSTEM CF HAMSTER A64-81186

NOSE

INCREASED DXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-B0627

CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN MOSE CAVITY

N64-31104

NUCLEAR ENERGY S ATOMIC ENERGY

NUCLEAR ENGINE FOR ROCKET VEHICLE /NERVA/
SAFETY PROBLEMS IN NUCLEAR SPACE SYSTEMS
ENGINEERING, INCLUDING STUDY OF SNAP AND NERVA
PROJECTS A64-11918

NUCLEAR EXPLOSION
THRESHCLD RANGE FOR EYEBURN DAMAGE FOR
EXCATMCSPHERIC NUCLEAR EVENT
A64-18366

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS A64-80327

NUCLEAR PARTICLE

S NEUTRON

S POSITRON S PROTON

.....

NUCLEAR PHYSICS S NUCLEAR RESEARCH

NUCLEAR POWER
MARINE SCIENCES RELATED TO AEROSPACE USES OF
NUCLEAR POWER
N64-14568

NUCLEAR PROPULSION
TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL,
BICLOGICAL AND ECONOMIC ASPECTS OF SPACE
EXPLORATION
A64-80786

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW A64-80868

NUCLEAR RADIATION
CF GAMMA RADIATION
MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING
RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS
AEC-TR-6298
N64-20823

NUCLEAR RESEARCH
GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL
AT NUCLEAR RESEARCH FACILITY
AECL-2050
N64-32308

NUCLEAR SUBMARINE
SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING
HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS
EXPOSURE TO CARBON DIOXIDE AND INCREASED OXYGEN
A64-25319

FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES
NRL-5954
N64-10551

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES
NRL-6053 N64-18868

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942 N64-24606

ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES N64-2460

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES N64-24608 TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES
N64-24609

CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE ATMOSPHERE N64-24619

NUCLEAR WARFARE
EMERGENCY MEDICAL SERVICE IN SHELTERS IN POSTNUCLEAR ATTACK
OU-107
N64-20811

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES NOTS-TP-3346 N64-26235

NUCLEATE BOILING S HEAT TRANSFER

NUCLEIC ACID

OF CHROMOSOME

OF NUCLEOSIDE

ORIGIN OF LIFE ON EARTH BY INTERACTION OF PROTEIN

AND NUCLEIC ACID MACROMOLECULES
A64-81126

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT
OF ORGANS OF HEALTHY AND IRRADIATED RATS
JPRS-19355
N64-11217

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS N64-15214

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS

JPRS-24070 N64-18326

METACHROMATIC REACTION OF NUCLEIC ACIDS, DNA AND RNA, PRODUCED BY ULTRASCNIC RADIATION JPRS-24353 N64-18978

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS JPRS-24261 N64-1943

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-1943

BIOLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS
NASA-TM-X-54021 N64-22771

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES FTD-TT-63-1052/182 N64-23659

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS
OF CHLOROPHYLL N64-23660

NUCLEIC ACIDS AND VISUAL PERCEPTION STUDIES
JPRS-25824 N64-27062

TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID COMPONENTS AND ROLE IN MUTAGENESIS

N64-28035

NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIDGENESIS OF NEURINES, PYRIMIDINES, PENTOSRIBOSE AND DEOXYRIBOSE N64-29699

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS
JPRS-26712 N64-32954

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS - RIBONUCLEIC ACID N64-32957

RADIATION EFFECTS ON NUCLEIC ACIDS
JPRS-27239 N64-33875

NUCLEOSIDE

CF NUCLEIC ACID

CF RIBONUCLEIC ACID

CF THYMIDINE

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER OF NUCLECSIDE SUBSTANCES N64-12510

NUCLEOSYNTHESIS

BICLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS NASA-TM-X-54021 N64-2277

NUCLEOTIDE

CF RIBONUCLEIC ACID
INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING
RIBONUCLEIC ACIDS JPRS-24086 N64-17976

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER N64-27036

MUCLEUS

RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM -BIOLOGICAL CELL N64-32956

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS NASA-TT-F-9147 N64-33408

NUTRITION

CF DIET CF FOOD CF NUTRITIONAL REQUIREMENTS

COMPOSITION AND FOOD VALUE OF ALGAE FOR USE IN SPACE FLIGHTS A64-80038

CALORIC REQUIREMENTS OF MAN UNDER SPACE FLIGHT CONDITIONS A64-80039

PHOSPHORUS METABOLISM IN COLD EXPOSED RAT

A64-80088

BLOOD CHOLESTEROL AND LIPIDS IN WORKERS AT ALTITUDE A64-B0182

NUTRITIONAL REQUIREMENTS IN SPACE TRAVEL

A64-80395

FOOD MANAGEMENT AND NUTRITION FOR MANNED SPACE STATIONS

SPACE MENUS DEVELOPED FOR PROJECTS MERCURY AND CEMINI A64-80397

PHYSIOLOGICAL, PSYCHOLOGICAL, AND NUTRITIONAL FACTORS IN MOUNTAIN EXPLORATION ABOVE 5,000 METERS A64-80433

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON METABOLIC APPROACH A64-80446

NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED DIET FOR SPACE FLIGHT MISSION

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL EXERCISE A64-80884

RELATIONSHIPS BETWEEN FOOD DEPRIVATION DURATION BLOOD SUGAR LEVEL, AND MEAL COMPOSITION AND TASTE SENSITIVITY

ENHANCEMENT OF PILOT PERFORMANCE CAPACITY BY ADEQUATE NUTRITION A64-81257

PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE N64-10264

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON JPRS-22295 N64-12442

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-12443

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES AMRL-TDR-63-124 N64-17864

NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA

PYRENDIDOSA

N64-23777

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL N64-23782

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT AMRL-TDR-64-38 N64-29939

NUTRITIONAL REQUIREMENTS

CF DIET BIOCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN ON SPACE MISSION A64-24616

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF FOOD REQUIREMENTS IN SPACE A64-80644

PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS BY NUTRITIONAL REQUIREMENTS NASA-CR-50397 N64-22768

NYSTAGNUS

CF EYE MOVEMENT VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO HARMONIC STIMULATION OF THE HORIZONTAL SEMICIRCULAR CANAL A64-10257

ELICITATION OF SECONDARY AND INVERTED PRIMARY NYSTAGMUS FROM THE CAT WITH VESTIBULAR STIMULATION BY REPEATED UNILATERAL CALORIC IRRIGATION A64-13521

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY CENTRAL NERVOUS SYSTEM IN RABBIT

OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM A64-80241

OTOLITH INFLUENCE ON NYSTAGMUS EVOKED BY CALORIC STIMULATION A64-80242

NYSTAGNUS EVOKED BY LINEAR ACCELERATION ACTING CN OTOLITH ORGANS OF RABBITS LYING IN LATERAL POSITION ON PARALLEL SWING A64-8024 A64-80244

VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH REPEATED MOTIONS A64-80245

VESTIBULAR CORIOLIS EFFECT DURING ADDITIONAL LINEAR ACCELERATION A64-80250

POSTROTATORY NYSTAGNUS AS TEST OF VESTIBULAR FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS SYSTEM STABILITY A64-80254

OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY PHASE A64-80257

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC STIMULATION A64-80301

HABITUATION, EFFERENCE, AND VESTIBULAR INTERPLAY A64-80305

NYSTAGMUS RECORDED SIMULTANEOUSLY IN THREE ORTHOGONAL PLANES A64-80339

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN A64-80340

ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL SEMICIRCULAR CANALS BY ELECTRO- AND PHOTOELECTRONYSTAGMOGRAPHY A64-80373

VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL ROTATION A64-80384

HABITUATION TO ROTATION RESULTING IN CHANGES IN

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS

A64-80620

CENTRALLY EVOKED NYSTAGMUS IN ANIMALS SUBJECTED TO VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS DRUG A64-80953

AMPLITUDE, FREQUENCY AND DURATION OF NYSTAGMUS IN RESPONSE TO ANGULAR ACCELERATION RELATED TO VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY A64-80986

THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT RADIAL ACCELERATION IN PIGEON A64-81024

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA A64-81073

ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED BY COMPLEMENTARY CORIOLIS ACCELERATION

A64-81120

VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT, AND CAT AS AFFECTED BY CHLORPROMAZINE

A64-81208

ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

N64-10432

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT CARI-63-14 N64-119

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION

CARI-63-13 N64-14544

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION NASA-CR-55619 N64-1535

INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY ANGULAR ACCELERATION NASA-CR-55617 N64-1535

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE

NASA-CR-55624 N64-15540

REDUCTION OF NYSTAGMUS, DISCRIENTATION, AND NAUSEA
IN HUMAN SUBJECTS

NASA-CR-55756 N64-16330
CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS
PHASE SHIFT

NASA-CR-53618 N64-1842 HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING

ADAPTATION TO LIVING IN ROTATING ROOM

N64-22433

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN NASA-CR-56896 N64-27889

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS CARI-63-29 N64-29847

PHYSICLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGNUS RECORDING INSTRUMENTATION FID-TI-64-386/162 N64-31074

ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY - INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION NASA-CR-59286 N64-33331

O

OBSERVATION S SATELLITE OBSERVATION

OBSERVATORY
S ASTRONOMICAL OBSERVATORY

OCEAN S PACIFIC OCEAN

OCULAR CIRCULATION
RECORDING METHOD FOR MONITORING BRAIN AND EYE
CIRCULATION A64-12942

OCULAR CONVERGENCE
SA EXOPHORIA
SA HETEROPHORIA
VISUAL FIELD LOSS PATTERN DURING POSITIVE
ACCELERATION DEMONSTRATED AND REFINED WITH
PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER
A64-27604

ACCOMMODATION AND CONVERGENCE CONSIDERED WITHIN CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS FUNCTION OF EXOPHORIA AND HYPEROPIA.

A64-80026

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS REVIEW OF EXPERIMENTAL STUDIES
AD-433129 N64-17924

OCULOGRAVIC ILLUSION
RADIAL ACCELERATION EFFECT ON POSITION SENSE,
CONSIDERING PSYCHIC FUNCTIONS AND OCULOGRAVIC
PHENOMENON
A64-22063

VISUAL PERCEPTION OF MOVEMENT AND ILLUSIONS
CONSIDERED FROM VIEWPOINT OF AEROSPACE MEDICINE
A64-80214

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION N64-22434

OCULOGYRAL ILLUSION
SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION
DURING WEIGHTLESSNESS, BY TIMING ROTATION OF
OCULOGYRAL ILLUSION AND THE PERCEPTION OF ROTATION
AFTER STIMULATION
A64-13509

VISUAL PERCEPTION OF MOVEMENT AND ILLUSIONS CONSIDERED FROM VIEWPOINT OF AEROSPACE MEDICINE A64-80214

OIL

S FUEL S PETROLEUM

2 DEIKOFFOM

OLFACTORY PERCEPTION

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY

RESTRICTION ON DOG

A64-80493

S OPERATION HIDEOUT

OPERATION HIDEOUT
RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE
A64-80109

OPERATIONAL PROBLEM
GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS,
HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL
AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN
LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95
N64-31508

OPERATOR
S OPERATOR PERFORMANCE

OPERATOR PERFORMANCE
RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND
CONTROLLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS
A64-24126

OPERATOR DECISION PERFORMANCE COMPARED FOR PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF OBJECT LOCATION A64-24128

MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION, USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST TIME OUTPUT SOLUTION A64-24129

NONLINEAR CHARACTERISTICS OF CLOSED LOOP MANUAL CONTROL SYSTEM WITH COMPENSATORY TRACKING

A64-24130

HUMAN OPERATOR PERFORMANCE IN BANG-BANG CONTROL SYSTEM IN PHASE PLANE, INTERPRETING RESULTS IN TERMS OF SWITCHING LINES A64-24840

HUMAN OPERATOR ADAPTATION TO DISCRETE AND CONTINUOUS TIME VARIATIONS IN CONTROL SYSTEM A64-24841

CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK A64-25202

FOOT PEDAL DESIGN AFFECTING OPERATION TIME A64-80092

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS TASK USING PREDICTOR DISPLAY AMRL-TDR-64-55 N64-27445

SENSORY INTERACTION AND OPERATOR PERFORMANCE REACTION TO BISENSORY PRESENTATION OF INFORMATION N64-29766

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS CARI-63-31 N64-29848

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63 N64-31827

OPHTHALMCLOGY CF EYE

MEASUREMENT OF AMPLITUDES OF VISUAL ACCOMMODATION UNDER RED AND WHITE ILLUMINATION LEVELS APPROXIMATING COCKPIT CONDITIONS

A64-10251

A64-17622

EFFECTS OF HIGH PARTIAL PRESSURES OF DXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/ A64-10254

AEROMEDICAL PROBLEM OF DETECTING AND HANDLING OF PATIENTS WITH GLAUCCHA, USING TONOMETRIC **TECHNIQUES** A64-10264

OCULAR DEFECTS DISQUALIFYING AIR FORCE RECRUITS A64-12142

EYE ACTIVITY IN VISUAL SEARCH SITUATIONS, NOTING RELEVANCE TO VISIBILITY PROBLEM

EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT A64-25007

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS -REVIEW OF EXPERIMENTAL STUDIES N64-17924

OPTICAL ILLUSION

VISUAL ILLUSIONS OF MOTION USING FLASHING LIGHTS
AND THEIR ASSISTANCE IN CLARIFYING NEURAL MECHANISMS A64-26707

MOON ILLUSION DURING MANNED SPACE FLIGHT

A64-80507

OPTICAL IMAGE S RETINAL IMAGE

FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR REFRACTION

OPTICAL MASER S LASER

OPTICAL METHOD CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE

N64-31026

OPTICAL PROPERTY

OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS, NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND STRUCTURE

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEDXYRIBONUCLEIC ACID

OPTICAL SENSOR DERMO-OPTICAL SENSE IN MAN JPRS-23068

N64-14542

OPTICAL SIGNAL

VISIBILITY PREDICTION, USING DATA ON HUMAN VISUAL PERFORMANCE CAPABILITIES

SA GEOMETRICAL OPTICS
DEPTH PERCEPTION FROM BINOCULAR DISPARITY CARI-63-10 N64-15165

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

N64-17885

ELECTRON MICROSCOPY AND ELECTRON OPTICAL TECHNIQUES IN EXOBIOLOGY NASA-CR-59251

N64-33286

OPTIMAL CONTROL

CONTROL SYSTEM OPTIMIZATION WITH RESPECT TO EFFICIENCY AND RELIABILITY DISCUSSED IN TERMS OF MAN-MACHINE ADAPTABILITY A64-164 A64-16478

MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION. USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST TIME OUTPUT SCLUTION A64-2

MODERN OPTIMAL CONTROL THEORY RELATION TO MANUAL CONTROL SYSTEMS EMPHASIZING HUMAN ELEMENT A64-24837

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS JPRS-22188 N64-11416

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS AMRL-TDR-63-111 N64-17508

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122

MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL **PROCESSES** FTD-TT-62-1746/16264

OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH FORECASTING

OPTIMIZATION

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

CF EARTH ORBIT OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES NASA-SP-39 N64-12915

ORBITAL RENDEZVOUS

VISUAL OBSERVATION BY AN ASTRONAUT OF ANOTHER SPACE VEHICLE FOR SPACECRAFT RENDEZVOUS PURPOSES

ASTRONAUT ROLE IN SPACECRAFT ORBITAL RENDEZVOUS A64-27814

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS TASK USING PREDICTOR DISPLAY AMRL-TDR-64-55 N64-27445

ORBITAL SPACE STATION SA MANNED ORBITAL SPACE STATION /MOSS/ FOCD MANAGEMENT AND NUTRITION FOR MANNED SPACE A64-80396 STATIONS

SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL AND HUMAN FACTORS RESEARCH IN EARTH ORBITING A64-80850 STATIONS

ORBITAL WORKER
HUMAN FACTORS FOR EXTRAVEHICULAR SPACE
ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT A64-80816

ORGAN WEIGHT

GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS AFFECTED BY CONFINEMENT AND EXERCISE

A64-80067

ORGANIC CHEMISTRY

PAPERS ON EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND ORGANIC CHEMISTRY UCRL-10934

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NASA-CR-56526 N64-22787

ORGANIC COMPOUND

ORGANIC MOLECULAR STRUCTURE OF TERRESTRIAL NATURAL PRODUCTS IDENTIFIED AND DETERMINED BY MASS SPECTROMETRY 464-18845

LOWER LIMIT OF FRONT GAS REACTIONS DETERMINED IN COMBUSTIBLE MIXTURES OF ORGANIC WASTE IN LIMITED AND UNLIMITED SPACE A64-25614

SPACE RADIATION ROLE IN SYNTHESIS OF ORGANIC COMPOUNDS LEADING TO CREATION OF LIFE

A64-80448

POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY INHALATION OF NINE SOLVENT VAPORS

464-81096

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES N64-13139

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM N64-15383

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS N64-16544

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE N64-19407 NRL-6064

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS -EVELUTION OF LIFE

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE NASA-CR-52217 N64-20682

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS BL-86 N64-22781

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS - PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS NASA-CR-56531

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION N64-20705 NASA-CR-56130

ORGANIC MATERIAL

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE
TO LASER BEAM IRRADIATION A64-226

STERILIZATION OF LUNAR AND PLANETARY SPACECRAFT TO AVOID CONTAMINATION BY TERRESTRIAL MICROORGANISMS AND ORGANIC MATTER

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE NASA-TM-X-54008 N64-22 N64-22754

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL N64-25511 SB-62-60, VOL. II

SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE YIELD OF PORPHINE-LIKE SUBSTANCES N64-29663

ORGANIC PHOSPHORUS COMPOUND
EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC

PHOSPHORUS INSECTICIDES

JPRS-22450 N64-11874

ORGANISM

CF ANIMAL STUDY CF MICROORGANISM BIOLOGICAL EFFECT ON THE ORGANISM FROM SOLAR A64-80931 RADIATION

RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH JPRS-20013 N64-10600

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING N64-10797

BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS N64-12357 JPRS-22580

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS

LYSCMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION

IMMUNOLOGICAL & PROTECTIVE FUNCTIONS OF ORGANISMS FTD-TT-62-1097/182 N64-17167

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171

ROLE OF ANAEROBIC & OXICATIVE PHOSPHORYLATION PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS N64-17172

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS JPRS-24816 N64-21125

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE N64-22729

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS NASA-CR-56527 N64-22788

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/18284

N64-23335

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM -N64-23368 TOXICOLGY

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF CRGANISM EXPOSED TO HARMFUL STIMULI

N64-23465

INVESTIGATION OF FUNDAMENTAL NATURE OF BIOCHEMICAL SYSTEMS IN TERRESTRIAL ORGANISMS NASA-CR-58547 N64-28894

ORGANGMETALLIC COMPOUND S CHELATE COMPOUND

ORGUEIL METEORITE

CARBONACEOUS MATERIAL IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE FOR EVIDENCE OF EXTRATERRESTRIAL 464-14781

HYDROCARBONS OF TERRESTRIAL SAMPLES AND ORGUEIL METEORITE ANALYZED, SHOWING THAT ALKANES ARE BEST INDICATORS OF FORMER LIFE ON EARTH

A64-18644

EVIDENCE FOR AND AGAINST THE PRESENCE OF EXTRATERRESTRIAL LIFE FORMS IN THE ORGUEIL METEORITE A64-B0161

PORPHYRINS FOUND IN THE ORGUEIL METEORITE AND THEIR RELATION TO THE ORIGIN OF LIFE

A64-80348

A64-80807

N64-25970

NATURE OF CRGANIZED ELEMENTS IN ORGUEIL AND IVUNA METEORITES A64-80449

AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL METEORITE PARENT BODY AND SUSTENANCE OF LIFE A64-80451

ORIENTATION S SPATIAL ORIENTATION

GRIGIN

ORIGIN OF CARBONACEOUS CHONDRITES AND EXTRATERRESTRIAL LIFE

A64-80450

AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL METEORITE PARENT BODY AND SUSTENANCE OF LIFE A64-80451

ORIGIN OF LIFE RELATED TO FORMATION OF MACROMCLECULES

CHEMICAL EVOLUTION AND ORIGIN OF LIFE

ORIGINS OF AMIND ACIDS AND PROTEINS - MOLECULAR EVELUTION N64-27797

DROGRAPHY

S MOUNTAIN

ORTHOSTATIC TOLERANCE

THE HEEK BED REST EFFECT UPON CARDIOVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL REACTIONS IN MAN A64

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS A64-80632

ELECTROENCEPHALOGRAPHIC DEMONSTRATION OF ORTHOSTATIC SYMPTOMS A64-80748

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845 OSCILLATION

CF VIBRATION
MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES
OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

A64-80939

OSCILL ATOR

COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC VORTEX TUBE N64-23816

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE FTD-TT-63-849/182 N64-31103

PRESSURE TRANSDUCER FOR OPTICAL RECORDING **OSCILLOGRAPH** N64-31105

OSCILLOSCOPE

SCOTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED BODY POSITION

OSMIUM COMPOUND

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIDACTIVE ISOTOPES N64-30395

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS

N64-32777

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER

NASA-TY-F-9110 N64-33393

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION NASA-TT-F-9115 N64-33397

OTOLITHIC STIMULUS EFFECT ON DISORIENTATION AND TROUBLESOME ILLUSIONS IN HUMAN STUDIED, USING LINEAR ACCELERATION OR ORBITING WITHOUT ACCELERATION A64-25554

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTOLITH, AND SEMICIRCULAR CANAL A64-80645

ROLE OF OTOLITHS IN DISCRIENTATION DURING AND AFTER WEIGHTLESSNESS AND CHANGES IN LINEAR ACCELERATION A64-80924

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF CTCLITH FUNCTION NASA-CR-55619 N64-15350

OUTER RADIATION BELT S VAN ALLEN BELT

OUTPUT

S LASER OUTPUT

OXIDASE

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA NADC-MA-6319 N64-12255

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT RRAIN N64-12573

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS NASA-CR-55744 N64-15873

OXIDATION

CF COMBUSTION PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND DISULPHIDE GROUPS DUE TO HIGH PRESSURE DXYGEN BREATHING IN RATS A64-80073

BIDELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION

POTENTIAL, ELECTRODE, & CHRONOPOTENTICMETRIC STUDY NASA-CR-52607 N64-11103

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS N64-13370

BICCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID OPR-5 N64-13968

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION NASA-CR-53734 N64-19577

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BICLOGICAL OXIDATION N64-28036

OXIDE

- S ETHYLENE OXIDE
- S IRON OXIDE
- S MANGANESE OXIDE
- PERCXIDE

OXIDIZER

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH
ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR
REGENERATION OF FOOD AND OXYGEN FROM WATER AND
CARBON DICXIDE
AMRL-TDR-64-35
N64-27432

OXYGEN

SA HIGH PRESSURE OXYGEN
SEALED ENVIRONMENTS IN RELATION TO HEALTH AND
DISEASE
A64-80265

INHALATION OF 95 PERCENT OXYGEN AND 5 PERCENT CARBON DIOXIDE - EFFECT ON CEREBRAL BLOOD FLOW A64-80567

CXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND EFFECT ON BURNING RATE OF FABRICS

A64-80928

CASE HISTORY AND TREATMENT OF OXYGEN POISONING WITHOUT HYPOVENTILATION AFTER CONTINUOUS OXYGEN THERAPY A64-81181

BLOOD FLOW RATE, VENOUS PRESSURE, AND DXYGEN EFFECT ON BLOOD FLOW RESISTANCE IN DOG FORELIMB A64-81237

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCEC PRESSURE A64-81323

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SCLUTIONS IN PLASMA N64-15040

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY
N64-15042

HANGE OF CARBON DIOXIDE AND OXYGEN IN

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEDLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS
N64-17940

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BICLOGY
JPRS-23945 N64-18206

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE REPT.-4 N64-22705

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH OXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK CARI-63-27 N64-23618

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695

EXTRACTION OF OXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES AD-437359 N64-24807

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE SAM-TDR-64-39 N64-29287

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES
SAM-TDR-64-43
N64-31051

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION,
OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE
SPECTROSCOPY
NASA-CR-59204
N64-33211

OXYGEN BREATHING

CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO
DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE
WITH AND WITHOUT PRESSURE SUIT A64-28457

ABDOMINAL REFLEX INHIBITION IN RAT DURING HYPERVENTILATION A64-80022

PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND DISULPHIDE GROUPS DUE TO HIGH PRESSURE OXYGEN BREATHING IN RATS A64-80073

OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN RELATION TO COLD TOLERANCE A64-80107

HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC 0XYGEN A64-80154

PROLONGED EXPOSURE OF YOUNG RATS TO AN OXYGEN
ATMOSPHERE AT REDUCED PRESSURE A64-80169

PHYSIOLOGICAL EFFECT OF HIGHLY OXYGENATED ENVIRONMENT AND SURVIVAL IN MOUSE

A64-80193

PRESSURE VOLUME RELATIONSHIPS AT 30,000 FEET ALTITUDE AND AT GROUND LEVEL WHILE BREATHING PURE DXYGEN A64-80630

NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS, AND PURE OXYGEN BREATHING A64-80633

LUNG VOLUME, COMPLIANCE, AND ARTERIAL OXYGEN AND CARBON DIOXIDE TENSIONS DURING CONTROLLED VENTILATION OF DOGS WITH PURE OXYGEN

A64-80700

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE DXYGEN UNDER HIGH PRESSURE A64-80920

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS
A64-80941

MAXIMUM BREATH HOLDING TIME IN MAN AS AFFECTED BY PURE OXYGEN INHALATION, ALTITUDE, AND PRESSURE BREATHING A64-80960

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF VISION IN RETINAL ISCHEMIA A64-81016

OXYGEN CONSUMPTION COLOR CHANGES IN HUMAN EPIDERMIS, AND EFFECTS OF PURE OXYGEN INHALATION MEASURED IN VIVO WITH CYCLOPS OXIMETER

A64-8120

OXYGEN SATURATION IN BRAIN TISSUE IN DOG INHALING VARIOUS GASEOUS MIXTURES A64-81255

ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION STRESS TOLERANCE A64-81264

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

N64-15856

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF

BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE

N64-22170

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT

PATHOPHYSICLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE OXYGEN AT REDUCED ATMOSPHERIC PRESSURE NADC-ML-6403

N64-27953

DXYGEN CONSUMPTION

PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND OXYGEN CONSUMPTION

OXYGEN CONSUMPTION DURING BAILOUT BETWEEN 45,000 AND 15,000 FEET A64-14014

LUNG DIFFUSION CAPACITY EFFECTS ON EXYGEN CONSUMPTION AT HIGH ALTITUDES A64-23258

PURE CXYGEN INHALATION, ALTITUDE AND PRESSURE BREATHINGS EFFECT ON MAXIMUM BREATH HOLDING TIME A64-23764

CXYGEN CONSUMPTION DURING DIFFERENT TYPES OF A64-80055

CXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSICLOGICAL STRAIN DURING WORK IN WARM AND COOL

DXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64-80222

VITAMIN C ADMINISTRATION AND THE MECHANICAL EFFICIENCY OF HUMAN SUBJECTS DURING PHYSICAL EXERCISE A64-80248

OXYGEN UPTAKE AND BLOOD LACTATE RELATIONSHIP IN SUBJECTS OF DIFFERENT SOMATOTYPE DURING EXERCISE A64-80249

MAXIMUM DXYGEN CONSUMPTION OF SUBJECTS PERFORMING THE STEP TEST

DXYGEN CONSUMPTION DURING LIGHT MUSCULAR WORK AND ZONE OF LEAST ENERGY EXPENDITURE WITH BIMANUAL A64-80341

LOAD EFFECT ON OXYGEN CONSUMPTION AND HEART RATE DURING LIGHT MUSCULAR WORK A64-80342

PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO OXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

AGE IN RELATION TO OXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION A64-80518

HYPOTHERMIC EFFECT ON GLYCOLYSIS AND OXYGEN CONSUMPTION IN DOG KIDNEY A6

PULMONARY FUNCTION, DXYGEN CONSUMPTION AND PULSE RATE RELATED TO EXCESS BODY MEIGHT DURING EXERCISE A64-80728

VENTILATORY EXCHANGE RATIO DURING EXERCISE AS RELATED TO CARDIOPULMONARY FUNCTION AND METABOLIC ACIDOSIS A64-A64-80737

LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY NEGATIVE PRESSURE BREATHING OF 100 PER CENT DXYGEN A64-80738

RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN A64-80753 DOG INHALING DXYGEN

METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO INCUBATED IN HELIUM-DXYGEN ATMOSPHERE A64-80852 AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO CXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-8 A64-80883

HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND OXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN A64-R0984

CARDIAC DUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT

CIRCULATORY RESPONSE TO PROLONGED STRENUOUS LEG EXERCISE A64-80996

HEART RATE AND OXYGEN CONSUMPTION OF HEALTHY HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION FROM REST TO EXERCISE IN RELATION TO EXERCISE A64-81007 TOLERANCE

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

MAXIMAL OXYGEN INTAKE PREDICTION STUDIED WITH RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE

ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK - INVESTIGATION OF CARDIOVASCULAR AND METABOLIC CORRELATES IN MAN

OXYGEN CONSUMPTION COLOR CHANGES IN HUMAN EPIDERMIS, AND EFFECTS OF PURE DXYGEN INHALATION MEASURED IN VIVO WITH CYCLOPS OXIMETER

A64-81207

CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN MAN AND DOG A64-81209

ADRENALIN EFFECT ON RELATIONSHIP BETWEEN OXYGEN NEED AND SUPPLY IN HEART IN DOG

A64-81210

OXYGEN CONSUMPTION AND RELATION TO HEART RATE DURING EXERCISE AT HIGH ALTITUDE

EVIDENCE FOR TISSUE OXYGEN DEMAND AS MAJOR FACTOR IN AUTOREGULATION IN DOG

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND OXYGEN UPTAKE DURING HYPOXEMIA A64-81262

DEPRESSION OF OXYGEN CONSUMPTION AND CARBON DIOXIDE REMOVAL IN PRESSURE BREATHING UTILIZING MASK A64-81265

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING DXYGEN JPRS-21984 N64-10388

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION SAM-TDR-63-50 N64-12835

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL DXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION NADC-MA-6323

BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANOXIC SURVIVAL N64-14584

REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO N64-14587

BLCCD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA

N64-14602

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT OXYGEN CONSUMPTION IN LIVER - HYPOXIA

N64-14604

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR OXYGEN TRANSFER AND CONSUMPTION

N64-15037

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS JPRS-23285 N64-15

FACTORS AFFECTING CELLULAR OXYGEN CONSUMPTION AT LOW DXYGEN TENSIONS SAM-TDR-63-68 N64-1574

OXYGEN STORAGE IN HUMAN BODY

N64-17951

CARBON DIOXIDE REMOVAL, CONVERSION, AND OXYGEN REGENERATION N64-24627

CXYGEN INHALATION EFFECTS ON COLD RESPONSE
THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE
BALANCE OF BLOOD
AD-600077
N64-26550

PRCTEIN-BOUND LODINE IN SERUM OF RATS BREATHING 99
PERCENT DXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223

DELIVERY APPARATUS OF PURE OXYGEN TO CLOSED
SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC
EXPERIMENTS WITH SMALL ANIMALS
FTD-TT-63-1118/18284 N64-32663

OXYGEN DEFICIENCY CF HYPOXIA

ARTERIAL OXYGEN SATURATION REDUCTION DUE TO INDUCED HYPERLIPIDAEMIA IN HUMANS BY INTRAVENOUS INFUSION A64-10789

RROTECTIVE MECHANISMS FOR ANOXIA ON BONE MARROW GRAFTS IN WHOLLY IRRADIATED MICE WITH IONIZING RACIATION A64-24100

TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS
IMMEDIATELY AFTER SEVERE BURN INJURY
JPRS-21999 N64-10391

OXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE DVL-205 N64-15034

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER

N64-15036

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039

ENZYME ACTIVATION DETERMINATION OF OXYGEN
DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME
FORMATION N64-15043

ERYTHRECYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND CXYGEN DEFICIENCY N64-1504

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE

N64-16908

ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPEXIA

DPRS-25796

N64-28076

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID
PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN
DEFICIENCY
N64-32326

OXYGEN MASK

CONTINUCUS FUNCTIONAL TESTING OF OXYGEN-BREATHING
EQUIPMENT BY DIRECT OBSERVATION OF OXYGEN
CONCENTRATION CHANGES IN THE DEAD SPACE OF THE
MASK AND IN THE INLET TUBING
A64-10255

TOLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET WEARING STANDARD DXYGEN MASK A64-80268

CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING EQUIPMENT
SAM-TDR-63-56
N64-12176

MODIFICATION TO FACEPIECE OF P AND Q TYPE OXYGEN MASKS FOR AIRCREWS FPRC/MEMO-194 N64-20666

OXYGEN METABOLISM

SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA

A64-19136

CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL EXERCISE IN LOW PRESSURE ENVIRONMENT

A64-19173

BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE DURING STRENUOUS EXERCISE IN MAN A64-80735

EVIDENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON

INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN RHYTHM OF DXYGEN BALANCE IN CYTOPLASM OF GREEN ALGA, ACETABULARIA A64-81320

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN
STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE
AND HYPOXIA CHAMBER CONDITIONS
N64-31539

OXYGEN PRODUCTION

ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS
ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS
A64-25607

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE OXYGEN IN AIR REGENERATION SYSTEM A64-25609

BIOREGENERATING SYSTEMS - USE OF HYDROGEN-OXIDIZING BACTERIA, CLOSTRIDIUM AND HYDROGENOMONAS IN REGENERATION OF EXPIRED AIR A64-80468

SUPEROXIDES FOR OXYGEN PRODUCTION AND CARBON DIOXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS
864-80831

FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES
NRL-5954 N64-10551

OXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT NRL-5979 N64-10557

THERMOCHEMICALLY SELF-PROPAGATING OXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE AMRL-TDR-64-1 N64-18600

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH
ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR
REGENERATION OF FOOD AND OXYGEN FROM WATER AND
CARBON DIOXIDE
AMRL-TDR-64-35
N64-27432

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER MRD-1242-2530 N64-28141

INORGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE SUPPORT IN SPACECRAFT

AMRL-TDR-64-30

N64-32626

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLCROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR NASA-CR-59220 N64-33124

404-3315

BXYGEN SYSTEM

ATMOSPHERE CONSIDERATION FOR SUSTAINED SPACE FLIGHT NOTING USE OF AN INERT GAS FOR REGENERATING OXYGEN A64-11428

DECOMPRESSION TESTS FOR 8-58 ESCAPE CAPSULE SYSTEM
A64-80331

SEAT-MOUNTED OXYGEN SUPPLY SYSTEM FUR LIGHTNING AIRCRAFT FPRC/MEMO-202 N64-25845

HAZARDS IN OXYGEN ENVIRONMENT

N64-30727

DXYGEN TENSION

CRITICAL OXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS
EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS
RELATED TO THE CEGREE OF OXIDATION OR REDUCTION OF
CYTOCHROME SYSTEM

A64-13513

METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK

RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED ALVEOLAR PARTIAL PRESSURE OF DXYGEN IN PRESENCE OR ABSENCE OF NITROGEN A64-22054

ERYTHREPCIESIS RESPONSE TO EXPOSURE OF ATMOSPHERE WITH INCREASED DXYGEN PARTIAL PRESSURE

A64-22C55

CARDIAC RESPONSES OF GUINEA PIGS AND RABBITS TO HIGH CXYGEN EXPOSURE UNDER PRESSURE AND STRESS LOADINGS A64-23767

HYPERCXIA EFFECT ON PROTECLYSIS OF BRAIN OF WHITE RATS FCLLOWING OXYGEN EXPOSURE OF 6 AND 3.5 ATMOSPHERES FOR VARYING TIME A64-27739

BRAIN CXYGEN TENSION IN DOGS DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80043

ARTERIAL AND VENOUS BLOOD OXYGEN AND CARBON DICXIDE TENSIONS DURING BRIEF HYPERVENTILATION WITH NITROGEN IN MAN A64-80122

CXYGEN DISSOCIATION CURVES OF HEMOGLOBIN IN BLOOD SUBJECTED TO MATHEMATICAL ANALYSIS

A64-80127

A64-80359

464-80431

ALVEOLAR AND ARTERIAL GAS TENSIONS AS RELATED TO ALTITUDE AND AGE A64-80170

INSPIRED OXYGEN TENSION VARIATION AND ALVEOLAR-ARTERIAL OXYGEN TENSION DIFFERENCE IN SITTING AND SUPINE MALES AND FEMALES A64-80187

OXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND ANALYSIS OF BLOOD GASES A64-80247

HUMAN RESPONSE TO CARBON DIGXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-80323

REGULATION OF RESPIRATION AND CIRCULATION THROUGH OXYGEN TENSION IN MIXED VENDUS BLOOD

A64-80355

BRAIN OXYGEN TENSION IN DOG DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION

NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

PARTIAL PRESSURE CHANGES OF DXYGEN AND CARBON DICXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN

QUANTITATIVE INTERACTIONS OF INCREASED OXYGEN AND

CARBON DIOXIDE TENSIONS UPON RESPIRATION IN MAN A64-80453

ALTITUDE EFFECT ON RESPIRATORY REGULATION AND CHEMORECEPTOR A64-80454

BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

RELATIONSHIP BETWEEN RESPIRATORY WORK AND ARTERIAL CARBON DIOXIDE TENSION A64-80456

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENOUS PRESSURE IN THE FOREHEAD

A64-80500

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, OXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

INCREASED OXYGEN PARTIAL PRESSURE EFFECT ON HEMATOPOIESIS A64-80625

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

LUNG VOLUME, COMPLIANCE, AND ARTERIAL OXYGEN AND CARBON DIOXIDE TENSIONS DURING CONTROLLED VENTILATION OF DOGS WITH PURE OXYGEN

A64-80700

OXYGENATION OF BRAIN TISSUE IN DOG DURING BREATHING OF VARIOUS CONCENTRATIONS OF CARBON DIOXIDE AND OXYGEN A64-80793

MYOCARDIAL TENSION IN RAT AS RELATED TO PRESSURE OF OXYGEN AND DURATION OF EXPOSURE

A64-80813

FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN AMESTMETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT OXYGEN A64-80817

TIME COURSE OF BLCOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF VISION IN RETINAL ISCHEMIA A64-81016

OXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENCIDOSA, SCENEDESMUS OBLIQUUS AND ELODEA CANADENSIS

A64-81051

OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL

N64-14583

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA

N64-14603

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED OXYGEN TENSION SAM-TDR-63-64 N64-16640

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

OXYGEN DISSOCIATION CURVE DETERMINATION -POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN
TENSION IN BRAIN TISSUE
FTD-TT-63-1215/18284 N64-22665

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634 OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/182 N64-

N64-29278

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY NA4-31219

DXYGEN TOXICITY

PHYSIOLOGICALLY DESIRABLE RELATIONSHIP BETWEEN
OXYGEN CONCENTRATION IN THE INSPIRED GAS AND THE
ABSOLUTE PRESSURE WITHIN A PRESSURE OR SEALED

EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/

TOXIC EFFECTS OF ELEVATED OXYGEN LEVELS ON PLANTS. INVERTEBRATES AND HUMAN CELLS

HIGHEST SURVIVAL TIME OF MICE LIVING IN PURE DXYGEN ENVIRONMENT IS 13 DAYS A64-A64-19174

ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND AMOEBA EXPOSED TO ATMOSPHERIC DXYGEN

464-20699

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED OXYGEN PARTIAL PRESSURE AND NITROGEN A64-22053

CHRONIC HIGH PRESSURE OXYGEN TOXICITY EFFECT ON A64-22058

SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS EXPOSURE TO CARBON DIOXIDE AND INCREASED OXYGEN A64-25319

VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE OXYGEN EXPOSURE

LIPID PEROXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN TOXICITY 464-25550

OXYGEN INTOXICATION UNDER NORMAL AND INCREASED ATMOSPHERIC PRESSURE A64-80221

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMOEBA, PELOMYXA CAROLINENSIS A64 A64-80505

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF OXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN PRESSURE CHAMBER 464-81263

TIME-CONCENTRATION FEECTS OF OXYGEN TOXICITY IN MAN

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING NADC-MA-6324 N64-1536:

N64-15363

HIGH DXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY SAM-REVIEW-3-64 N64-26269

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE NADC-MA-6331

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, DXYGEN TOXICITY, AND DRUG THERAPY

NASA-SP-47 **OXYHEMOGLOBIN**

OXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLOOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN A64-81270

SPACE CABIN ATMOSPHERE CONTAMINANTS EFFECT, PARTICULARLY DZONE, ON VISUAL PERCEPTION

A64-10631

TIME-TEMPERATURE RELATIONSHIP OF AIR COMPRESSORS OF TURBOJET, TURBORAMJET, OR SUPERSONIC TRANSPORT PROPULSION TO DEVELOP ADEQUATE TECHNIQUES OF OZONE

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE

OZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN BREATHING LOW CONCENTRATIONS OF OZONE

A64-80742

OZONOS PHERE S ATMOSPHERE

PACIFIC OCEAN BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC JPRS-23403 N64-15730

BODY REACTION TO PAINFUL STIMULI - ACTIVE AND PASSIVE JPRS-21617

PAIN SENSITIVITY PAIN SENSITIVITY AS MEASURE OF SENSORY DEPRIVATION TOLERANCE

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREM MEMBERS A64-80327

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY RESTRICTION ON DOG A64-80493

SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL STERILIZATION BY ETHLENE OXIDE A64-8 464-80463

PAPER CHROMATOGRAPHY EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL NASA-CR-56523 N6 N64-22783

RUSSIAN COSMONAUT REENTERS SPACE FLIGHT TRAINING -WORKING DAY DESCRIPTION - PARACHUTE JUMPS FTD-TT-64-149/184

SURFACE WIND VELOCITIES CORRELATED WITH PARACHUTE LANDING INJURIES

EJECTION SEAT INJURIES IN ROYAL CANADIAN AIR FORCE AS RELATED TO EQUIPMENT AND TRAINING A64-80175

PARALLAX

ERROR ANALYSIS OF PARALLAX IN INDIVIDUAL SCALE A64-13081

PARAMAGNETIC RESONANCE

PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN

PARANASAL SINUS FRONTAL MUCOCELE REVEALED BY BAROTRAUMA

A64-80034

PARASITIC DISEASE

PARASITIC DISEASES SPREAD BY AIR TRANSPORTATION A64-80313

PAROTID

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS

N64-31219

SAK-TDR-63-86

N64-15742

464-13512

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES SAM-TER-64-37 N64-29286

PAROTIC FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN SAM-TER-64-50 N64-31C53

PARTIAL PRESSURE
PHYSICLOGICAL FACTORS IN THE TRAINING OF AIRCREW
IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS

INCREASED DXYGEN PARTIAL PRESSURE EFFECT ON HEMATOPOIESIS A64-80625

PARTICL

S CHARGED PARTICLE

S MICROPARTICLE

PARTICLE ACCELERATOR
S LINEAR ACCELERATOR
S SYNCHROTRON

PARTICLE BEAM S MOLECULAR BEAM

PARTICLE SIZE
PARTICLE SIZE CONSIDERATIONS OF AIRBORNE
CONTAMINANTS

N64-24628

PASSIVITY
PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA
NASA-CR-56942
N64-27314

PATH S TRAJECTORY

PATHOLOGICAL EFFECT
RELATIONSHIP OF FREQUENCY OF PATHOLOGICAL DEFECTS
OF SAMPLE PILOTS IN AIRCRAFT ACCIDENTS TO SAME
DEFECTS IN TOTAL PILOT POPULATION

A64-25549

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSICLOGY OF GUINEA PIGS

A64-25551

PROLONGED WEIGHTLESSNESS AND DISUSE EFFECTS ON CARDICVASCULAR DECENDITIONING AND BODY FLUID DISTRIBUTION A64-28340

PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

PATHOLOGICAL AND PSYCHOLOGICAL EFFECTS OF WHIPLASH
TN.HRY A64-80233

CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

PATHOLOGICAL EFFECT OF ACCELERATION, IONIZING RADIATION, AND WEIGHTLESSNESS DURING MANNED SPACE FLIGHT A64-81097

PATHCLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-10781

INFLUENCE OF HYPOXIA ON VARIOUS PATHOLOGICAL CHANGES - HYPOXEMIC LESIONS N64-14598

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE JPRS-25252 N64-26056

PATHOLOGY CF DISEAS

CF DISEASE
HISTOPATHOLOGY OF EXPERIMENTAL DECOMPRESSION
SICKNESS IN THE DOG, NOTING BONE MARROW EMBOLI AND
FAT EMBOLIZATION
A64-13514

PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS

.....

PATHOLOGY OF LIGHT AIRCRAFT ACCIDENTS

A64-80177

A64-80132

NEUROVEGETATIVE CONDITIONS AND OCCUPATIONAL PATHOLOGY A64-81127

MEDICAL CONFERENCES ON MINERAL WATER USE,
CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE
PHYSIOLOGY, AND EPIDEMIOLOGY
LIPES-21836 N64-10515

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY RADIATION SICKNESS, CONGENITAL DISEASE, AND
HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR PATHOLOGY IN HYPOXEMIC STATE N64-14594

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY JPRS-23234 N64-14944

PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM ARCH-20 N64-15398

PATHOGENETIC MECHANISMS IN DEVELOPMENT OF BURN SICKNESS
JPRS-24338 N64-18976

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173
N64-23204

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS ETD-TI-62-15A6/16264 N64-23463

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI

N64-23465

FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND PATHOLOGICAL SUBJECTS - ROLE OF SPEECH N64-25143

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS AMBI-TOR-64-46 N64-29938

ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY DIAGNOSIS OF PATHOLOGICAL PROCESSES
N64-30238

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS

PATIENT
AIR TRANSPORTATION OF PATIENTS WITH CONGENITAL
HEART DISEASE A64-B0029

ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN
CASES IN FRANCE A64-80284

AIR TRANSPORT OF SICK AND WOUNDED - MEDICAL CONSIDERATIONS A64-80304

AIR EVACUATION OF PATIENTS WITH ACUTE RESPIRATORY PROBLEMS USING INTERMITTENT POSITIVE PRESSURE BREATHING A64-80605

AIR TRANSPORTATION OF CARDIAC PATIENTS

NASA-TT-F-9120

A64-80775

N64-33399

HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS RELATED TO PROTECTION UNDER FIRST GENEVA CONVENTION A64-81049

ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES
OF WATER BY PATIENTS
NASA-TT-F-9114
N64-33396

PATTERN RECOGNITION
OBJECT CLASSIFICATION DISCUSSED AS PRACTICAL TOOL

PEDAL FOR VISIBILITY ENGINEERING A64-17625 COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE A64-25825 AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC VOICE PATTERN RECOGNITION A64-26640 BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK NASA-TN-D-1974 N64-11549 SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS RADC-TDR-64-145 N64-25235 LEARNING MACHINE - PATTERN RECOGNITION MODEL N64-25296 PEDAL FOOT PEDAL DESIGN AFFECTING OPERATION TIME A64-80092 PELGMYXA ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMDEBA. PELOMYXA CAROLINENSIS PELTIER EFFECT ELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE PENTABORANE INTOXICATION DIAGNOSED WITH

ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT TECHNIQUE A64-81046 PENTABORANE POISONING AND RELATION BETWEEN LETHAL

AND INCAPACITATING DOSAGES IN MAMMAL A64-81177

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO

SHALL MAMMALS AMRL-TDR-63-128 N64-16585

PENTOBARBITAL SODIUM HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND 464-80365

VISUAL SIGNAL-FROM-NOISE DETECTION BY MONKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND SODIUM PENTOBARBITAL A64-80906

PEPTIDE

CF PROTEIN ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS NASA-CR-55655 N64-16109

PERCEPTION CF RECOGNITION PERCEPTUAL THEORY OF RELATIVITY REGARDING SPACE AND TIME AS INSEPARABLE A64-24 A64-24406

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS PHS-G-GM-05385

REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING SIGNAL IN YOUTH AND OLD AGE A64-80164

HANDEDNESS AND DIFFERENTIAL PERCEPTION OF VERBAL STIMULI IN LEFT AND RIGHT VISUAL FIELDS A64-80202

SELECTIVE ATTENTION IN MAN - BEHAVIORAL RESEARCH A64-80376

INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL A64-80381

DECISION-MAKING RELATED TO CERTAIN PERSONALITY VARTABLES A64-80440

PERCEPTUAL MECHANISMS AIMED AT ERROR-CORRECTION A64-80471 PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL AND PARTIAL PERCEPTUAL ISOLATION A64-80513

AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL A64-80531

AUTONOMIC LEVELS AND LABILITY PERFORMANCE TIME ON PERCEPTUAL AND SENSORIMOTOR TASKS A64-80585

PERCEPTUAL SPEED IN RELATION TO QUANTA OF SIMULTANEOUSLY PRESENTED MATERIAL IN VISUAL OR A64-80655

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS A64-80692

PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL. AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

WEBERS LAW AND NOISE - DISCRIMINATION OF BRIGHTNESS AND OTHER DIMENSIONS

A64-80810

RESPONSE UNCERTAINTY AS RELATED TO OVERALL REACTION TIME A64-80812

AGE FACTOR AND REACTION TIME IN PERFORMANCE OF CARD SORTING TASK BY AGED AND YOUNG ADULT HUMAN A64-80973

AUDIBILITY OF BINAURAL BEATS AS FUNCTION OF FREQUENCY, LOUDNESS, AND THRESHOLD LEVELS A64-80978

PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED, AND OLD INDIVIDUALS OF SIMILAR NONVERBAL INTELLIGENCE

BIBLIOGRAPHY OF AUDITORY AND VISUAL PERCEPTION A64-81149

COMPUTER AND RELATION TO HUMAN PERCEPTION A64-81164

AGE, INFORMATION TRANSMISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

DISCRIMINANT FUNCTION AS MODEL FOR PERCEPTION A64-81299

PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN JPRS-19762 N64-11352

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE **PROCEDURES** CARI-63-17 N64-14411

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR

NASA-CR-55614 N64-15355

DISARRANGED EYE-HAND COORDINATION

N64-22061

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION

INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION -PSYCHOLOGY AD-436402 N64-24234

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS

N64-25078 HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS

AD-600319 N64-27094 SUBJECT INDEX PERSONNEL

GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN HELICOPTER FLIGHT SIMULATOR NAVTRADEVCEN-294-5 N64-28636

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY JPRS-26839

N64-33010

PERCEPTRON

STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM

N64-11534

PERCEPTUAL DEPRIVATION S SENSORY DEPRIVATION

OPERATOR PERFORMANCE

PERFORMANCE CHARACTERISTICS CENTRAL NERVOUS SYSTEM FUNCTIONAL INTEGRITY ASSESSED THROUGH RADIO-TELEMETRY DURING MANNED SPACE FLIGHT A64-80435

PERFORMANCE DECREMENT

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY A64-80131

PERFORMANCE PREDICTION

LOOKING AHEAD MECHANISMS TO CHARACTERIZE HUMAN
OPERATORS SENSING AND USING FUTURE IMPUT DATA IN
FORCED PACE CONTROL TASKS
A64-248 A64-24839

PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS A64-805 464-R0546

APTITUDE TEST MEASURES FOR SELECTION OF TOWER AIR TRAFFIC CONTROL TRAINEES A64-81334

PERFUSION

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH N64-32350

PERIODICITY /BIOL/

PHYSIOLOGY OF SLEEP-WAKEFULNESS CYCLE AND RELATED PHENOMENA A64-80186

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP A64-80316

TIME ESTIMATES AS MEASURED BY REPRODUCTION RELATED TO INTERNAL RHYTHMS A64-80590

TIME JUDGMENT-CONSISTENCY OF INDIVIDUAL DIFFERENCES A64-80745

24-HOUR PERIODICITY OF MITCTIC DIVISION OF CELLS

AND GLYCOGEN CONTENT IN LIVER OF RAT A64-81307

PERIPHERAL CIRCULATION

VIBRATORY THRESHOLD AS AFFECTED BY AGING AND IMPAIRMENT OF PERIPHERAL CIRCULATION

A64-80002

NOISE EFFECT ON PERIPHERAL CIRCULATION & PHYSICAL EXERCISE A64-80413

CENTIMETER WAYE RADIATION OF VARYING INTENSITY AND EFFECT ON PERIPHERAL BLOOD AND HEMATOPOIETIC A64-81211 SYSTEM

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD AAL-TDR-63-3 N64-31934

PERIPHERAL NERVOUS SYSTEM

MYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

A64-80066

VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA EFFERENT MOTOR SYSTEM IN CAT A64-8 A64-80240

PERMEABILITY

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS JPRS-21492 N64-10066

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS JPRS-21628 N64-10119

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES

PEROXIDE

INHIBITION OF GROWTH OF CHLORELLA VULGARIS BY ORGANIC PEROXIDES A64-80901

PERSONALITY

CF APTITUDE PSYCHOLOGICAL CORRELATES OF BIODYNAMIC STRESS - DESCRIPTION OF SIX MEN SUSTAINING OVER 500 ACCUMULATED G

RORSCHACH PERFORMANCE AND INTELLECTUAL FUNCTIONING IN AGED INDIVIDUALS A64-R0128

RISK-TAKING BEHAVIOR OF INDIVIDUALS AND GROUPS RELATED TO CERTAIN PERSONALITY TRAITS

A64-80211

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC STIMULATION A64-80301

DECISION-MAKING RELATED TO CERTAIN PERSONALITY VARIABLES A64-80440

RISK-TAKING BEHAVIOR EVALUATED AS UNITARY DIMENSION OF PERSONALITY A64-B0447

AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL ASPECTS A64-80531

PERSONALITY VARIABLES AS DETERMINED BY MMPI RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR STIMULATION A64 A64-80582

AROUSAL EFFECT ON FIELD DEPENDENCE ASSESSED BY ROD AND FRAME TEST UNDER QUIET AND NOISE CONDITIONS A64-81142

PURSUIT ROTOR PERFORMANCE WITH POSITIVE AND **NEGATIVE APPROVAL MOTIVATION** A64-81216

SPATIAL ORIENTATION WITHIN ROTATING ROOM AS DETERMINED ON TILTING CHAIR AND ROD-AND-FRAME

PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT TRAINING REPT.-38 N64-30148

PERSONNEL

CF ASTRONAUT CF FLYING PERSONNEL
CF MANPOWER

CF PILOT

JOB ANALYSIS IN UNITED STATES AIR FORCE

VISUAL EXAMINATIONS FOR CIVILIAN AIR PERSONNEL A64-80460

STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL ID0-12028 N64-10428 WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-11858

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS SC-4959/M/

N64-14997

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS -ESTIMATION OF REQUIREMENTS AMRL-TDR-63-110 N64-18599

RREDICTION OF ADAPTABILITY OF BASIC AIRMEN
REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION
AD-436571
N64-18906

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING
TELEMETERING GROUND STATION EQUIPMENT - OPERATOR
PERFORMANCE
ND-64-37
N64-21373

HAZARD TO PERSONNEL WEARING TORN PROTECTIVE CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET PROPELLANTS AD-431540 N64-21673

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL
AT NUCLEAR RESEARCH FACILITY
AFCI-2050 N64-32308

PERSONNEL TRAINING PROGRAM DEVELOPMENT
HUMRRO-RB-11 N64-32681

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL PHYSICLOGICAL SYNCOPE
REPT.-16
N64-33570

PERSONNEL PROPULSION SYSTEM
LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN
PLANETARY ENVIRONMENTS A64-80853

PERSONNEL SELECTION
SA PILOT SELECTION
OF PHYSICAL EXAMINATION
PSYCHOLOGICAL AND PHYSICAL CRITERIA RECOMMENDED
FOR SELECTION OF ASTRONAUTS
A64-11427

EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT PERSONNEL A64-25007

OPTIMUM ASTRONAUT SELECTION WITH REGARD TO IN FLIGHT TESTING AND ACTUAL MISSION PERFORMANCE REQUIREMENTS A64-28344

ELECTROCARDIOGRAM IN SINUS TACHYCARDIA AND AURICULAR HYPERTROPHY A64-80024

ROYAL NAVAL HIGH-ALTITUDE SELECTION TEST AS MEASURE OF DECOMPRESSION SICKNESS SUSCEPTIBILITY A64-80225

ASTHMA TEST BY PNEUMOTACHOGRAPHY AFTER INHALATION OF ACETYLCHOLINE AND ALEUDRINE A64-80286

THORACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN SELECTION AND PERIODIC EXAMINATION OF MILITARY FLYING PERSONNEL IN FRANCE A64-80303

AIR TRAFFIC MANAGEMENT - IMPLICATIONS OF AGE AT ENTRY FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS A64-80325

PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE FLIGHT A64-80457

AUDIOMETRIC EXAMINATION OF MILITARY PERSONNEL A64-80570

CORCNARY DISTURBANCES AND FLYING AS RELATED TO PILOT SELECTION EXAMINATIONS A64-80769

SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL AND HUMAN FACTORS RESEARCH IN EARTH ORBITING STATIONS A64-80850

APTITUDE TEST MEASURES FOR SELECTION OF TOWER AIR TRAFFIC CONTROL TRAINEES A64-81334

SPACECREM SELECTION AND TRAINING - LITERATURE SURVEY SID-63-707 N64-14423

VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION PERSONNEL SELECTION
AD-442707 N64-29650

PERSONNEL SUBSYSTEM
SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY
IN X-15 AIRCRAFT A64-22635

PERSPECTIVE
CF DEPTH PERCEPTION
ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION
A64-80141

PERT PROJECT
PREPARATION OF PROGRAMMED INSTRUCTION FOR
AUTOMATED TRAINING IN DECISION MAKING - PERT
PROGRAM

PRUGRAM
ESD-TDR-63-608
N64-12319
PETROL FUM

CF FUEL
CF GASOLINE
BIOGENIC AND ABIOGENIC EVIDENCE OF ORIGIN OF DIL
AND LIFE
A64-80371

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS FTD-TT-62-1449/18284 N64-16396

H
PH OF FOREHEAD SWEAT AND SALIVA DURING PHYSICAL
EXERCISE
A64-80370

BLOOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA

TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

PH-TEMPERATURE CONVERSION FACTOR AND CARBON DIOXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL ADULTS A64-81010

TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLOOD OF HUMAN ADULT AND NEWBORN

A64-81012

UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT A64-81021

USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367

PH FACTOR
RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER
ADAPTATION TO ALTITUDE OF BLOOD AND CEREBROSPINAL
FLUID
A64-80160

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN
PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528
N64-22789

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM CXYGEN DEFICIENCY

DVL-225 N64-32326

PHARMACOLOGY
CF DRUG
CF TOXICOLOGY
PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS,
PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF
ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION
A64-10250

PHARMACOLOGY RESEARCH AND APPLICATIONS IN AEROSPACE MEDICINE, NOTING KREBS CYCLE AND METABOLIC ACTIVITY IN HUMAN BODY

A64-11439

PHYSICLOGICAL AND PHARMACOLOGICAL EFFECTIVENESS OF ADENOSINETRIPHOSPHORIC ACID AND COCARBOXYLASE IN TREATMENT OF PILOTS AFFLICTED WITH FLIGHT FATIGUE A64-24099

MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

PSYCHCPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT JPRS-22042 N64-11269

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-22292 N64-11781

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACCLOGY, TOXICCLOGY, & RADIATION HAZARDS UCLA-520 N64-15341

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLCNONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY N64-15384

BICCHEMICAL AND PHARMACOLOGICAL STUDIES OF DIMETHYLHYDRAZINE

AMRL-TER-63-127 N64-16584

PHARMACOLOGICAL PREPARATIONS HAVING PSYCHOLOGICAL EFFECTS
JPRS-24475 N64-1949

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION
JPRS-24817
N64-21729

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED

ECCLOGICAL SYSTEMS N64-24617

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE NASA-RP-262 N64-25975

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE AND BICLEGICAL EFFECT FTC-TT-64-581/184 N64-26736

PHARMACOLOGICAL CHARACTERISTICS OF SEVERAL PREPARATIONS - ANIMAL STUDY N64-31

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE N64-31342

PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYL-CYSTAMINE N64-31346

PHASE

S PHASE SHIFT

PHASE SHIFT

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS
PHASE SHIFT
NASA-CR-53618
N64-18421

PHENO

PRCTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY JPRS-23567 N64-16543

PHENOMENON

S PHYSIOLOGICAL PHENOMENA

PHENOTHIAZINE

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

PHILOSOPHY

RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS -

EPISTEMCLOGY JPRS-18208

N64-10751

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY,
NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234
N64-1494

PHONEME

NONACOUSTIC MEASURES OF EVENTS ASSOCIATED WITH SPEAKING INCLUDING LIP READER, SENSING ELEMENT, THROAT AND NOSE MICROPHONES A64-24835

PHONOCARD LOGRAPHY

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT N64-11704

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND FTD-TT-63-1193/16264 N64-25458

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM JPRS-25897 N64-27125

PHOSPHATE

SA ADENOSINE TRIPHOSPHATE
PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO
INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS
JPRS-21628
N64-10119

QUANTITATIVE ANALYSIS BY RADIDACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

PHOSPHINE

ENTOPIC VISUAL PHENOMENA /PHOSPHENE/ PRODUCED BY ACCELERATION STRESS A64-80178

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL COSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA N64-15679

PHOSPHOR

S RADIOPHOSPHOR

PHOSPHORUS

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS
USED TO REDUCE STRONTIUM-90 CONTENT OF RAT
SKELETON
N64-12442

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS NASA-CR-55313 N64-14898

PHOSPHORUS COMPOUND

QUANTITATIVE ANALYSIS BY RADIDACTIVE PHOSPHORUS-32
OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
MAG-13474

PHOSPHORUS METABOLISM

PHOSPHORUS METABOLISM IN COLD EXPOSED RAT

A64-80088

PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING AD-430174 N64-15955

PHOSPHORUS 32

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE
ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS,
RABBITS, AND DOGS N64-12433

PHOSPHORYLATION

PHOTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC

PHOTIC STIMULATION SUBJECT INDEX

IMPORTANCE IN ALGAE AND BACTERIA

A64-81036

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION RROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS N64-17172

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION: OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY NA4-33211 NASA-CR-59204

PHOTIC STIMULATION

BRAIN BIOPOTENTIALS - ELECTROENCEPHALOGRAPHIC VARIATIONS IN RESPONSE TO RHYTHMIC PHOTIC

LIGHT STIMULATION EFFECT ON VISUAL CORTEX AND BRAIN POTENTIALS IN RABBIT A64-8 A64-81297

PHCTOSYNTHESIS EXPERIMENTATION IN ORDER TO STUDY FEASIBILITY OF SYNTHETIC MANUFACTURE OF FOOD A64-13745 PREDUCTS

PHOTOCHEMICAL REACTION
CONVERSION OF LIGHT INTO CHEMICAL ENERGY BY LIVING ORGANISMS AFOSR-64-1192 N64-31031

PHOTOCHEMISTRY

- PHOTOCHEMICAL REACTION PHOTOSYNTHESIS

PHOTOELECTRIC APPARATUS

PHOTOELECTRIC APPARATUS

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT

OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TDR-63-106 N64-168C8

PHOTOFLECTRIC CELL SELF-MAINTAINING PHOTOELECTRIC CELL OF BLUE-GREEN ALGAL MAT AND BACTERIA AS LAYERED ECOSYSTEM IS EXAMINED FOR ELECTRICAL AND ORGANIC POTENTIAL ENERGY A64-14152

PHOTOGRAMMETRY

- S MAPPING S PHCTOGRAPHY
- **PHOTOGRAPH**

S PHOTOGRAPH INTERPRETATION

PHOTOGRAPH INTERPRETATION FIGURAL AFTEREFFECT STUDIED BY TACHISTOSCOPIC EXPOSURES OF STIMULI A64-80586

VOLUME JUDGMENT FROM PHOTOGRAPHS OF COMPLEX SHAPES AND UTILIZATION IN AIRCRAFT ACCIDENT INVESTIGATION A64-80588

HUMAN FACTORS OF PHOTO INTERPRETATION RACC-TDR-63-324 N64-10526

CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527

HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION N64-10528

PHCTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST N64-10529

DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N. N64-10534

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION

N64-10535 CUTLINE FOR PHOTO INTERPRETATION COURSES AND

SELECTION AND TESTING OF STUDENTS N64-10536

ACCURACY OF TARGET RECOGNITION BY VISUAL RHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS N64-33536 RADC-TDR-64-144

PHOTOGRAPHIC RECORDING SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH

FTD-TT-63-1190/16264 N64-26212

PHOTOGRAPHIC RECORDING INSTRUMENT PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL A64-80260 PHENOMENA

PHOTOGRAPHY CF AERIAL PHOTOGRAPHY
CF RADIOGRAPHY

FACTORS AFFECTING PHOTOGRAPHIC CHANGE DISCRIMINATION

N64-10533

PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY N64-16327

PHOTOLYSIS

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION NASA-CR-56130

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR

NASA-CR-59220 N64-33124

PHOTOMETRY SA SPECTROPHOTOMETRY

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTROGRAPHIC BEHAVIOR WITH MODEL

N64-10668

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS

N64-15214

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY NIJS-R-425 N64-21698

PHOTOMICROGRAPHY PHOTOGRAPHY

PHOTON

S X-RAY PHOTOSTRESS

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETWEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH A64-13511

PHOTOSYNTHESIS

CF CHLOROPHYLL CF METABOLISM

PHOTOSYNTHESIS EXPERIMENTATION IN ORDER TO STUDY FEASIBILITY OF SYNTHETIC MANUFACTURE OF FOOD A64-13745

DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE USED FOR SUPPORT OF HUMANS IN SPACE

A64-24976

BACTERIAL AND GREEN PLANT PHOTOSYNTHESIS REVIEWING HISTORY AND DEVELOPMENT A64-25318

TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS A64-25588

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE OXYGEN IN AIR RECENERATION SYSTEM A64-25609

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING PHOTOSYNTHESIS INTENSITY OF CHLORELLA A64-25610

AUTOMATED SYSTEM FOR STUDYING EFFECT OF MINERAL NUTRIENT SOLUTION COMPOSITION ON PHOTOSYNTHESIS IN HIGHER PLANTS A64-25616

RADIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM

A64-80324

CARBON CICXIDE CONCENTRATION AS RELATED TO PHCTOSYNTHESIS IN MASS CULTURE OF ALGAE

A64-80608

PHCTOSYNTHESIS AND FLUORESCENCE DURING VARIOUS STAGES OF CELL GROWTH IN SYNCHRONIZED CULTURES OF CHLGRELLA PYRENOIDOSA A64-80805

PHCTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE

A64-80808

RESPIRATION AND PHOTOSYNTHESIS OF CHLORELLA IN CLOSED ECCLOGICAL SYSTEM WITH AND WITHOUT GAMMA RAY IRRACIATION A64-81C01

PHCTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA

A64-81036

DXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENDIDOSA, SCENEDESPUS OBLIQUUS AND ELODEA CANADENSIS

A64-81051

DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL DIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM A64-81118

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHCTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE
JPRS-21610 N64-10201

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA FTC-TT-63-867/162 N64-12628

PHCTOSYNTHETIC ELECTRON TRANSPORT

N64~13199

N64-13715

RELATIONS BETWEEN DXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS N64-1337(

PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED ECCLOGICAL SYSTEM

TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN PHOTOSYNTHETIC CELLS N64-15307

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS
AMRL-TCR-63-131
N64-18773

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHCTOSYNTHESIZING BACTERIA
JPRS-24319 N64-18975

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS
N64-19465

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS

N64-19495

EFFECT CF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLCRCPSEUDCMCNAS ETHYLICUM N64-23433

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA N64-23776

PHCTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782

EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA N64-26/16264 N64-26113

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH

CONJUGATE SYSTEM OF PI-ELECTRONS JPRS-25733

N64-28309

THERMODYNAMICS OF PHOTOSYNTHESIS

N64-28310

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS -PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE ASR-3 N64-30570

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS AD-602394 N64-32295

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760
N64-3310

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION,
OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE
SPECTROSCOPY
NASA-CR-59204
N64-332

ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED ILLUMINATIONS - PHOTOSYNTHESIS RATES N64-33261

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA
PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE
ILLUMINATIONS
N64-33456

PHYSICAL CHEMISTRY

BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS,
MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND
PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290
N64-17601

ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES PUBLa-281 N64-28295

PHYSICAL ENDURANCE

CF WORK CAPACITY
HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
RESERVES OF PILOT
A64-27025

MUSCLE LOADING AND ENDURANCE IN MALES AND FEMALES
A64-80093

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-80438

SERUM CHOLESTEROL AND TCBACCO SMOKING AS RELATED TO CAPACITY FOR PHYSICAL WORK OF MEN OF DIFFERENT AGES A64-81068

PHYSICAL EXAMINATION
CF PERSONNEL SELECTION

EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT
PERSONNEL A64-25007

ELECTROCARDIOGRAM IN SINUS TACHYCARDIA AND AURICULAR HYPERTROPHY A64-80024

PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS
A64-80132

THORACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN SELECTION AND PERIODIC EXAMINATION OF MILITARY FLYING PERSONNEL IN FRANCE A64-80303

CORONARY DISTURBANCES AND FLYING AS RELATED TO PILOT SELECTION EXAMINATIONS A64-80769

PHYSICAL EXERCISE CF MUSCULAR FATIGUE CF WORK CAPACITY

PHYSICAL EXERCISES REDUCE BEHAVIORAL AND
PHYSIOLOGICAL IMPAIRMENT DURING PROLONGED
PERCEPTUAL DEPRIVATION A64-10093

SEASONAL VARIATIONS IN PULSE RATE DURING ERGOMETRIC WORK TEST OF SWEDISH AIR FORCE PILOTS A64-12991

AGE INFLUENCE ON WORK PERFORMANCE AS SHOWN BY EXERCISE TESTS A64-12994

PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND OXYGEN CONSUMPTION

A64-12995

CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL EXERCISE IN LOW PRESSURE ENVIRONMENT

A64-19173

PHYSICAL INACTIVITY EFFECT, DISREGARDING
WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING
DURING ORTHOSTATIC TESTING
A64-22060

TRYPTOPHAN-RICH PREALBUMIN EXCRETION AFTER STRENUCUS EXERCISE A64-80006

PHYSICAL STRESS EFFECTS ON MUSCLE AND LIVER GLYCOGEN CONTENT IN MICE A64-80015

CARDICVASCULAR, RESPIRATORY, AND METABELIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS A64-80C44

OXYGEN CONSUMPTION DURING DIFFERENT TYPES OF EXERCISE A64-80055

FUNCTIONAL RELATIONSHIP BETWEEN RESPIRATORY MUSCLES AND MUSCLES PERFORMING DYNAMIC WORK A64-80065

GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS AFFECTED BY CONFINEMENT AND EXERCISE A64-B0C67

RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN SUPINE POSITION A64-80079

HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC EXERCISE A64-80080

CARDICVASCULAR, RESPIRATORY, AND METABOLIC FITNESS TESTED BY EXERCISE A64-80C81

BLCOD CIRCULATION CHANGES IN LUNGS DURING EXERCISE A64-80082

TEMPERATURE REGULATION IN EXERCISE AT DIFFERENT CLIMATIC CONDITIONS A64-80C83

CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABOONS
DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND
EXERCISE

A64-80087

GXYGEN CCNSUMPTION AND HEART RATE AS INCICATORS OF PHYSICLOGICAL STRAIN DURING WCRK IN WARM AND COCL ENVIRONMENTS A64-80111

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED
BY MUSCULAR ACTIVITY IN NORMAL AND WARM
ENVIRONMENTS

A64-80112

REGULATION OF BREATHING AT BEGINNING OF EXERCISE A64-80117

RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL EXERCISE AT SIMULATED ALTITUDE A64-80157

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE

EXERCISE AND SPACE THRESHOLD OF THE TACTILE DIFFERENTION A64-80192

ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER EXERCISE A64-80207

OXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64-80222

ELECTROCARCIOGRAPHIC CHANGES DURING WORK AND PROLONGED EFFORT A64-80228

ELECTRCENCEPHALOGRAPHIC CHANGES IN VARIOUS AREAS CF CEREBRAL CORTEX DURING PHYSICAL WORK BY MAN A64-80237

OXYGEN UPTAKE AND BLOOD LACTATE RELATIONSHIP IN

SUBJECTS OF DIFFERENT SOMATOTYPE DURING EXERCISE
A64-80249

MAXIMUM OXYGEN CONSUMPTION OF SUBJECTS PERFORMING THE STEP TEST A64-80251

RADIOTELEMETRY APPLIED TO STUDIES OF PHYSIOLOGY OF WORK AND SPORTS A64-80353

PH OF FOREHEAD SWEAT AND SALIVA DURING PHYSICAL EXERCISE A64-80370

D-AMPHETAMINE SULFATE INFLUENCE ON PHYSICAL PERFORMANCE A64-80388

DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND MUSCLES BY EXERCISE A64-80411

NOISE EFFECT ON PERIPHERAL CIRCULATION & PHYSICAL EXERCISE A64-80413

CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING, HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE A64-8041

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-80438

BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

PHYSIOLOGICAL TELEMETRY METHOD DURING EXERCISE -STUDY OF HEART AND RESPIRATORY RATE

A64-80474

TELEMETRIC RECORDING OF RESPIRATORY AND PULSE RATE DURING EXERCISE - EVALUATION OF FATIGUE AND CARDIOVASCULAR SYSTEM A64-80475

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS
AS RELATED TO DXYGEN INTAKE, VENTILATION, AND
HEART RATE
A64-80515

CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRADED TREADMILL EXERCISE A64-80516

CARDIAC OUTPUT DURING MUSCULAR EXERCISE AS A FUNCTION OF ALTITUDE ACCLIMATIZATION AT 19,000 FEET IN THE HIMALAYAS A64-80517

THIRST, HUNGER, ENVIRONMENTAL TEMPERATURE, AND PHYSICAL ACTIVITY AS RELATED TO BODY WATER

A64-80547

MINIMAL WATER REQUIREMENTS UNDER CONDITIONS OF HEAT AND PHYSICAL EXERCISE IN MAN

A64-80549

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

ANATOMY, PHYSIOLOGY AND MECHANICS OF HUMAN MOTION WITH APPLICATIONS TO PHYSICAL EXERCISE

A64-80596

PRECEDING MUSCULAR ACTIVITY EFFECTS ON CAPACITY OF UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS

UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS
A64-80600

NONESTERIFIED FATTY ACIDS IN VENOUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS, AND PURE DXYGEN BREATHING A64-80633

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

TURNOVER RATE AND OXIDATION OF DIFFERENT FREE FATTY ACIDS IN MAN DURING EXERCISE

A64-80698

RESPIRATORY OUTPUT DURING WORK AS AFFECTED BY AMPHETAMINE AND METHAMPHETAMINE COMBINATION

A66-B0721

PULMONARY FUNCTION, DXYGEN CONSUMPTION AND PULSE RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE A64-80728

FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

A64-80729

ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY

A64-80731

EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS RELATED TO GLUCOSE UTILIZATION A64-80732

UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF PIGEON DURING EXERCISE A64-80734

BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE DURING STRENUOUS EXERCISE IN MAN

A64-80735

BASE-LINE EFFECTS ON RESPONSE ON STROKE VOLUME TO LEG EXERCISE IN THE SUPINE POSITION

A64-80736

VENTILATORY EXCHANGE RATIO DURING EXERCISE AS RELATED TO CARCIOPULMONARY FUNCTION AND METABOLIC ACCIDENCE A64-80737

PULMONARY BLOOD FLOW DURING EXERCISE IN
CCMPARISON TO RESPONSE TO HYPOXIA AND
AMINOPHYLLINE
A64-B0739

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL FACILITIES

A64-B0772

HUMAN SERUM ELECTROLYTE AND IRON CONCENTRATION CHANGES DURING PHYSICAL EXERCISE

A64-80776

EXERCISE TEST TO DEMONSTRATE CORONARY INSUFFICIENCY

A64-80777

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOCD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

A64-80820

CALORIC EXPENDITURE DURING PHYSICAL EXERCISE AND RELATIONSHIP TO VENTILATION AND BODY WEIGHT

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO DXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL EXERCISE A64-80884

INDOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC BLCOD FLCW DURING EXERCISE IN UPRIGHT MAN A64-RORRS

BLCOD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS A64-80916

THERMAL RESPONSE OF SUBJECT WEARING FULL PRESSURE SUIT CURING EXERCISE IN ARCTIC ENVIRONMENT

A64-80918

ELECTROCARDIOGRAMS OF MARATHON RUNNERS

A64-80951

NERVOUS FACTORS CONTROLLING RESPIRATION AND CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF BLOOD FLOW A64-80957

LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND OXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN A64-80984

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT

464-80985

CARDIAC OUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990

HEART RATE BEFORE, DURING AND AFTER STRENUOUS
PHYSICAL EXERCISE IN FEMALE MEASURED WITH
TELEMETRY
A64-8099

CIRCULATORY RESPONSE TO PROLONGED STRENUOUS LEG EXERCISE A64-80996

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FCREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS 464-81002

HEART RATE AND OXYGEN CONSUMPTION OF HEALTHY
HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION
FROM REST TO EXERCISE IN RELATION TO EXERCISE
TOLERANCE
A64-81007

PHYSICLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

MAXIMAL OXYGEN INTAKE PREDICTION STUDIED WITH RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE

STRENUOUS EXERCISE AND WORKING CONDITIONS AND EFFECT ON BLOOD PLASMA AND RED CELL VOLUME

ACTION POTENTIALS RECORDED BY SURFACE ELECTRODES
OF QUADRICEPS, HAMSTRINGS, TIBIALIS ANTERIOR, AND
TRICEPS SURAS MUSCLES DURING POSTURE CHANGE
A64-81020

HEART VOLUME, STROKE VOLUME, AND CARDIAC DUTPUT DURING EXERCISE OF OLD MEN COMPARED TO YOUNG MEN A64-8103

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST A64-81054

WEIGHT LOAD EFFECT AND MOVEMENT SPEED ON COORDINATED ACTION OF ANTAGONIST PAIR OF MUSCLES IN HUMAN A64-81055

ROLE OF AEROBIC WORK CAPACITY IN DETERMINING
PHYSICAL PERFORMANCE OF ORGANISM DURING PHYSICAL
EXERCISE A64-81072

HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA PECTORIS A64-81077

ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK - INVESTIGATION OF CARDIOVASCULAR AND METABOLIC CORRELATES IN MAN

A64-81088

HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING PHYSICAL EXERCISE A64-81093

POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY

PHYSICAL FACTOR SUBJECT INDEX

INHALATION OF NINE SOLVENT VAPORS

A64-81096

ACCLIMATIZATION TO HEAT DURING EXERCISE IN PHYSICALLY FIT SUBJECTS A64-81116

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONING AND PHYSICAL STRESS A64-81156

TELEMETERED HEART RECORD FROM GYMNASTS DURING ROPE A64-81194

CARBON DIOXIDE VENTILATORY STIMULUS AND RELATION TO NEUROGENIC VENTILATORY STIMULUS OF MUSCULAR A64-81219 EXERCISE

PHYSICAL EXERCISE AND EFFECT ON ALIMENTARY HYPERLIPAEMIA AND RELATION TO CATECHOLAMINE A64-81225

INITIAL REFLEX COMPONENT OF HYPERVENTILATION IN FIRST SECONDS OF PHYSICAL EXERCISE A64-81227

DXYGEN CONSUMPTION AND RELATION TO HEART RATE DURING EXERCISE AT HIGH ALTITUDE

A64-81231

BLOOD CELL CHANGE IN ATHLETES DURING EXERCISE AND SAUNA BATH AND RELATION TO ADAPTATION IN SPORTS A64-81232

CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED A64-81243

HIGH ALTITUDE EFFECT ON OXYGENATING PROCESS IN A64-81276 ATHLETES

AUTOCORRELATION AND CROSSCORRELATION ANALYSIS OF MARKED RHYTHM IN HUMAN EEG DURING MUSCULAR A64-81314

ELECTROMYOGRAPHIC CHARACTERISTICS OF MUSCLE ACTIVITY WITH VARYING LOADS AND RATES OF MOVEMENT IN HUMANS

URINARY CAST FORMATION OF TH-MUCOPROTEIN AND CREATININE EXCRETION DURING EXERCISE A64-81318

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING A64-81319 IN COLD WATER

BLOOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER GRADED PHYSICAL STRESS A64-81327

PHYSICAL EXERCISE AND EFFECT ON BLOOD SERUM PROTEIN FRACTIONS IN ELDERLY PERSONS

ORGANISM FUNCTIONS AND METABOLISM DURING

PHYSICAL TRAINING A64-81333

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE AD-429526 N64-25323

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS SAM-TDR-64-38 N64-31050

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE JPRS-27192 N64-33761 PHYSICAL FACTOR

BIOLOGICAL EFFECTS OF PHYSICAL CONDITIONS IN SPACE FLIGHT INCLUDING RADIATION, VACUUM, TEMPERATURE, NOISE, VIBRATION, ACCELERATION, WEIGHTLESSNESS, FOOD AND ARTIFICIAL ATMOSPHERE A64-25570

RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO RESPIRATORY RATE A64-80598

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE A64-80664

ELECTRONYSTAGMOGRAPH RECORDING OF RESPONSE TO VARIED LIGHT AND SOUND, MENTAL PROBLEMS, ACTIVITY, AND CHEMICAL FACTORS RELATED TO TRAVEL SICKNESS A64-80980

PHYSICAL FITNESS

SA FLIGHT FITNESS

CF MUSCULAR STRENGTH
ASTRONAUT TRAINING REQUIRING MEDICAL KNOWLEDGE AND
PHYSICAL FITNESS DEVELOPED BY SCUBA DIVING AND CENTRIFUGE CONDITIONING 464-24403

RELATIONSHIP OF FREQUENCY OF PATHOLOGICAL DEFECTS OF SAMPLE PILOTS IN AIRCRAFT ACCIDENTS TO SAME DEFECTS IN TOTAL PILOT POPULATION A64-25549

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC FITNESS TESTED BY EXERCISE A64-80081

DXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64-80222

AEROMEDICAL SELECTION STANDARDS OF NATO NATIONS FOR AIRCREWS REEVALUATED A64-80269

PHYSICAL FITNESS TESTS EVALUATED BY MORPHOLOGICAL INDEX VERSUS CARDIOVASCULAR STRESS TESTS 464-80412

MASTER EXERCISE TOLERANCE TEST IN DIAGNOSIS AND PROGNOSIS OF REDUCED CORONARY CIRCULATION

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING A64-80865 AIRCREW

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED TO A64-80923 AIRCRAFT ACCIDENTS

HYPEROPIA, MYOPIA, AND ASTIGMATISM - DIAGNOSIS AND EVALUATION OF PHYSICAL FITNESS FOR OCCUPATIONAL OPERATION OF VEHICLES A64-81296

PHYSICAL PROPERTY

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS JPRS-24070

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID N64-1832 N64-18329

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-N64-31511

CALORIC REQUIREMENTS OF MAN UNDER SPACE FLIGHT A64-80039 CONDITIONS

VITAMIN C ADMINISTRATION AND THE MECHANICAL EFFICIENCY OF HUMAN SUBJECTS DURING PHYSICAL A64-80248 **EXERCISE**

OXYGEN CONSUMPTION DURING LIGHT MUSCULAR WORK AND ZONE OF LEAST ENERGY EXPENDITURE WITH BIMANUAL MOVEMENTS A64-80341

LOAD EFFECT ON OXYGEN CONSUMPTION AND HEART RATE DURING LIGHT MUSCULAR WORK A64-80342

PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

A64-81332

RELATIONSHIP BETWEEN RESPIRATURY WORK AND ARTERIAL CARBON DIOXIDE TENSION A64-R0456

PHYSTOTAN

PHYSICIAN ROLE IN SPACE MEDICINE

A64-14118

ROLE AND QUALIFICATIONS OF FLIGHT SURGEON IN AEROSPACE MEDICINE A64-80756

AIRLINE FLIGHT SURGEON DUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

PHYSICS /GEN/

CF BIOPHYSICS CF ELECTRONICS

CF MOLECULAR PHYSICS CF POLYMER PHYSICS

CF PSYCHOPHYSICS

CF RADIOPHYSICS

UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL ENGINEERING, AND MATHEMATICS

N64-32986

PHYSIOCHEMISTRY

CF BIOCHEMISTRY

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN N64-23774

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY

JPRS-27063 N64-33344

PHYSIOLOGICAL ACCELERATION

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE AND VENOUS PRESSURE IN THE FOREHEAD

IN FLIGHT ACCELERATION CONSIDERING APPLIED AND INERTIAL FORCES, HUMAN TOLERANCE, VIBRATION AND IMPACT A64-24617

PHYSIOLOGICAL DEFENSE

PHYSIOLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL **ENVIRONMENT**

PHYSIOLOGICAL EFFECT

ATMOSPHERIC NITROGENS ROLE IN BIOLOGICAL PROCESSES WITH PARTICULAR REFERENCE TO PHYSIOLOGICAL

HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION, EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES A64-23188

SYMPOSIUM ON PHYSICLOGICAL EFFECTS OF HIGH ALTITUDE AT INTERLAKEN, SWITZERLAND IN SEPTEMBER 1962 A64-23253

HIGH ALTITUDE EFFECTS IN MUSCULAR EXERCISE INCLUDING WORK RATE, DXYGEN INTAKE, VENTILATION AND HEART RATE A64-23257

CARDIAC RESPONSES OF GUINEA PIGS AND RABBITS TO HIGH DXYGEN EXPOSURE UNDER PRESSURE AND STRESS A64-23767

PHYSIOLOGICAL REACTIONS OF CATS DURING ROCKET FI TGHT A64-24259

BIOLOGICAL RHYTHMS DEFINED TO DETERMINE ALTERATION DUE TO EXTRATERRESTRIAL SPACE ENVIRONMENT

PHYSIOLOGICAL EFFECTS OF SPACEFLIGHT INCLUDING LABYRINTHINE DISTURBANCE, SENSORY DEPRIVATION, CIRCULATORY IMPAIRMENT AND MUSCLE AND BONE ATROPHY A64-24404

PHYSIOLOGICAL EFFECTS AND CONSTITUENTS OF GASEOUS ENVIRONMENT IN SPACE TRAVEL A64-24615

DISTURBANCES IN HUMAN CALCIUM METABOLISM DUE TO

WEIGHTLESSNESS AND IMMOBILIZATION

A64-24972

SENSORY AND PERCEPTUAL DEPRIVATION EFFECTS ON BEHAVIORAL AND PHYSIOLOGICAL EFFECTS

A64-25432

HEMATOLOGY AND BIOCHEMICAL STRESS EFFECTS OF CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT A64-25547

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

BOOK ON SPACE BIOLOGY AND AEROSPACE MEDICINE A64-25568

SPACE FLIGHT FACTORS IN SPACE BIOLOGY AND MEDICINE INCLUDING ACCELERATION, ISOLATION, TEMPERATURE FLUCTUATIONS AND PRESSURE GRADIENTS

A64-25569

BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEOPHYSICAL ROCKET AND MANNED SATELLITE OBSERVATIONS A64-25571

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS INCLUDING SENSORY, MOTOR, VEGETATIVE AND HISTOMORPHOLOGICAL A64-25572

PHYSIOLOGICAL INTERACTION OF VESTIBULAR, VISUAL AND PROPRIOCEPTIVE ANALYZERS DURING LONG SPACE A64-25575

LANDING IMPACT STRESS TOLERANCE OF ANIMALS IMMERSED IN WATER, NOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION STRESS IN VENTRODORSAL DIRECTION AND RELATION TO VASCULAR AND PARENCHYMAL ELEMENTS

A64-25598

U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE

A64-26380

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM

TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF FLUCTUATING CARBON MONOXIDE EXPOSURES FROM MULTIPLE SOURCES A64-80075

ACCELERATION EFFECTS AND SOME PROTECTIVE METHODS A64-80104

PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

PHYSIOLOGIC AND PSYCHOLOGIC EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS A64-80126

PHYSIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-80156

PROLONGED EXPOSURE OF YOUNG RATS TO AN OXYGEN ATMOSPHERE AT REDUCED PRESSURE A64-A64-80169

PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS RELATED TO SKIN AND RECTAL TEMPERATURES

A64-80179

PHYSIOLOGICAL EFFECT OF HIGHLY DXYGENATED ENVIRONMENT AND SURVIVAL IN MOUSE

A64-80193

PENTABORANE TOXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION

A64-80204

HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS SYSTEM FUNCTION DURING RELATIVE SENSORY DEPRIVATION A64-80235 COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL 464-80270 IRRADIATION

PHYSIOLOGICAL, PSYCHOLOGICAL, AND NUTRITIONAL FACTORS IN MOUNTAIN EXPLORATION ABOVE 5,000 METERS A64-80433

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT ON ANIMALS AND MEN - A REVIEW A64-80488

HUMAN RESPONSE TO LONG-TERM, LOW-LEVEL EXPOSURE TO A64-80511 ETHYLENE OXIDE

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE, MACACA NEMESTRINA, DURING SPACE FLIGHT A64-80544

BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE

SIMULATION OF SPACE FLIGHT PHYSIOLOGICAL STATE OF MAN DURING SPACE FLIGHT AS RELATED TO GASEOUS ENVIRONMENT AND PRESSURE LEVELS

HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT A64-80670 AFTER BENZENE POISONING

CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD PRESSURE, AND ORGANS DURING DECCMPRESSICN SICKNESS A64-80762

FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING A64-80817 99.6 PER CENT OXYGEN

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY A64-80855 MICROORGANISM

IDENTIFICATION OF VARIABLES IN REPORTING PHYSIOLOGICAL EFFECTS OF ACCELERATION STRESS A64-80867

RAPID ACCELERATION EFFECT ON SYMPATHICOTONIC CHARACTER OF ELECTROCARDIOGRAM IN PILOTS EJECTED FROM CATAPULTS 464-80929

PHYSICLOGICAL AND PSYCHOGENIC ASPECTS OF ACUTE, SUBACUTE, AND CHRONIC FATIGUE A64-80930

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

LUNG CAPACITY AND RESPIRATION PATTERN IN A64-81019 WIND-INSTRUMENT PLAYER

STARVATION AND REFEEDING EFFECTS ON LIPCGENESIS AND FREE FATTY ACID METABOLISM IN OBESE AND A64-81047 NONOBESE HUMAN

RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER A64-81053

GRADIENT LOAD EFFECT ON HUMAN DUE TO ACCELERATION STRESS DURING FLIGHT

A64-81059

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA A64-81073

PHYSICLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY JPRS-26444 N64-31536

PHYSIOLOGICAL FACTOR PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF FOOD REQUIREMENTS IN SPACE 464-80644

PHYSIOLOGICAL INDEX PHYSIOLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458

BIOMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH STUDIES OF F-105 PILOTS 464-80094 PHYSICAL FITNESS TESTS EVALUATED BY MORPHOLOGICAL A INDEX VERSUS CARDIOVASCULAR STRESS TESTS

A64-80412

POLYGRAPHIC INVESTIGATION OF EMOTIONAL INFLUENCE ON PHYSIOLOGICAL INDICES AND AFTER CENTRALLY EFFECTIVE DRUG IN MAN A64-80654

PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE MEASUREMENT OF STRESS INTENSITY

A64-80711 PHYSIOLOGICAL RESPONSES ASSOCIATED WITH TIME ESTIMATION IN HUMAN OPERANT SITUATION

A64-80801 RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED

SPACE FLIGHT AMRL-TDR-64-10 N64-32480

PHYSIOLOGICAL PHENOMENA BOOK ON BIOASTRONAUTICS INCLUDING PHYSIOLOGICAL PROBLEMS OF SPACEFLIGHT, MAN-MACHINE SYSTEMS, SPACE FLIGHT OPERATIONS AND PERSPECTIVES

A64-24392

ELECTRIC RECORDING PROCEDURE FOR EXAMINING ARTICULATION MOTIONS IN SPEECH IN ESTABLISHMENT OF AUTOMATIC SPEECH RECOGNITION SYSTEM

ANIMAL AND HUMAN PHYSIOLOGICAL PROCESSES REPRESENTED BY RANDOM FUNCTIONS

A64-25606

PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS A64-80007

PHYSIOLOGY OF SLEEP-WAKEFULNESS CYCLE AND RELATED A64-80186 PHENOMENA

PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL PHENOMENA A64-80260

PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA A64-80261 BIOSATELLITE PROGRAM

SENSORY DEPRIVATION STUDIES CONDUCTED AT PRINCETON REVIEWED IN DETAIL A64-80378

AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL ASPECTS

AUTOMATIC PATTERN RECOGNITION OF PHYSICLOGICAL PHENOMENA BY COMPUTERS A64-8

MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE A64-80541 CHANGE

HIGH ALTITUDE PHYSIOLOGY IN RELATION TO ANAESTHESIA AND INHALATION THERAPY OF MOUNTAIN A64-80890 INHARITANT

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA -N64-12513 CYBERNETICS

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL **PHENOMENA** N64-22182 FTD-TT-63-521/184

PHYSIOLOGICAL RESPONSE

CF BIOLOGICAL EFFECT

PHYSICAL EXERCISES REDUCE BEHAVIORAL AND PHYSIOLOGICAL IMPAIRMENT DURING PROLONGED PERCEPTUAL DEPRIVATION 464-10093

METABOLIC CONSEQUENCES AND PHYSIOLOGICAL EFFECTS
OF EXTENDED SPACE MISSIONS FOR WHICH THERE IS NO
CAPABILITY FOR RE-SUPPLY OR CREW ROTATION

A64-10115

VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO HARMONIC STIMULATION OF THE HORIZONTAL SEMICIRCULAR CANAL A6 A64-10257 PERCEPTION OF MOTION, EQUILIBRIUM AND CRIENTATION IN SPACE DURING WEIGHTLESSNESS A64-11429

HIGH ALTITUDE EFFECTS ON MAN, COMPARING
ENVIRONMENT ADAPTATION OF TRAINED AND UNTRAINED
SUBJECTS
A64-11440

PILOT AUTOGENOUS RESPONSE TO CAUSES OF ESSENTIAL HYPERTENSION MEASURED BY NEUROVCLTMETER, AND METHODS FOR OVERCOMING THIS RESPONSE

A64-11441

OCULAR DEFECTS DISQUALIFYING AIR FORCE RECRUITS
A64-12142

RANGE OF PHYSIOLOGICAL TOLERANCE ENCOUNTERED IN AIRCRAFT AND SPACE VEHICLES A64-12379

BOOK ON HUMAN RESPONSE TO ENVIRONMENTAL CONDITIONS ENCOUNTERED IN SPACE A64-12973

EFFECTS OF CARDIOVASCULAR, THERMAL, VISUAL AND RESPIRATORY STRESSES INDUCED BY UNUSUAL ENVIRONMENT A64-12974

HUMAN STRESS MODEL, VIEWING ORGANISM AS SYSTEM WITH ENERGY AND INFORMATION IMPUTS AND CUTPUTS, PROVIDING PSYCHOLOGICAL AND PSCHOPHYSIGLOGICAL INDICES OF STRESS A64-12975

WEIGHTLESSNESS WITH RESPECT TO ORIENTATION,
PSYCHOMOTOR PERFORMANCE AND PHYSIOLOGICAL FUNCTION
A64-12982

FATIGUING TONE EFFECT INVESTIGATED AS FUNCTION OF LEVEL OF MENTAL ACTIVITY A64-13302

PHYSIOLOGICAL FACTORS IN THE TRAINING OF AIRCREM IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS A64-13512

HISTOPATHOLOGY OF EXPERIMENTAL DECOMPRESSION SICKNESS IN THE DOG, NOTING BONE MARROW EMBOLI AND FAT EMBOLIZATION A64-13514

PHYSIOLOGICAL RESPONSES OF MAN IN ORBIT,
EMPHASIZING WEIGHTLESSNESS AND IONIZING RADIATION
EFFECT A64-16313

NASA BIOSATELLITE PROGRAM TO STUDY PHYSIOLOGICAL, EVOLUTIONARY AND GENETIC EFFECTS OF WEIGHTLESS-NESS, RADIATION AND REMOVAL FROM EARTH ROTATION A64-18756

HUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA AIAA PAPER 64-219

FREQUENCY, AMPLITUDE, LATENCY AND MAGNITUDE MEASUREMENTS OF CONDITIONED EYELID REFLEX

A64-19521

METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK A64-20696

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED OXYGEN PARTIAL PRESSURE AND NITROGEN A64-22053

ACCUSTIC REFLEX OF MIDDLE EAR UPON STEP STIMULATION OF WHITE NOISE STUDIED BY VARIATION OF INPUT IMPEDANCE TO HUMAN SUBJECTS

A64-2380

ELECTROSTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIGLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS

A64-25545

GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO DETERMINE TIME CORRELATION BETWEEN VESTIBULAR STIMULI STRENGTH AND VEGETATIVE REACTIONS

A64-25596

STIMULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE

ACCELERATIONS

A64-25600

GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER
SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND
DOGS
A64-25603

SENSITIVITY AND REACTION CAPABILITY OF CRANICCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF BODY POSITION A64-25604

VISUAL EVOKED POTENTIALS CAUSED BY STIMULI CF CONSTANT DURATION AND VARYING LUMINANCE AND BY FLASHES A64-26089

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF TONE STIMULUS DURATION A64-26635

FACILITATIVE INTERACTION BETWEEN TWO SEPARATE CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY, CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO TWO-HAND CRANKING TASK

A64-26851

ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION A64-27273

SPACE FLIGHT AND SIMULATION EXPERIMENT REQUIREMENTS FOR DETERMINING ASTRONAUT PHYSIOLOGY AND SURVIVAL IN NEAR EARTH ORBIT

A64-28339

PROLONGED WEIGHTLESSNESS AND DISUSE EFFECTS ON CARDIOVASCULAR DECONDITIONING AND BODY FLUID DISTRIBUTION A64-28340

PERSISTENCE OF GEOPHYSICALLY DEPENDENT BIOLOGICAL RHYTHMS IN CONTROLLED SPACE FLIGHT ENVIRONMENT A64-28341

STRESS REACTION EVOKED BY FORMALIN INJECTION -MANIFESTATION IN HIGHER NERVOUS ACTIVITY OF DOGS A64-80041

EFFECT OF WEATHER AND CLIMATE ON PHYSIOLOGY
OF MAN A64-80420

CLIMATIC CHAMBERS FOR ADAPTATION RESEARCH
A64-80422

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF ACCELERATION STRESS IN SPACEFLIGHT - A REVIEW A64-80477

BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE DURING STRENUOUS EXERCISE IN MAN A64-80735

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPDXIA CN PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM OF BODY FUNCTION A64-81056

PHYSIOLOGICAL CHANGES IN HUMAN UNDERGOING ACCLIMATIZATION TO SUBARCTIC ATMOSPHERIC CONDITIONS A64-81104

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG A64-81251

POLAROGRAPHIC METHOD FOR STUDY OF OXYGEN SATURATION OF BRAIN TISSUE IN DOG

A64-81254

PHYSIOLOGICAL MECHANISM OF ADAPTATION TO HIGH ALTITUDE A64-B1274

NERVOUS SYSTEM CHANGES OF HUMAN ORGANISM AT 2000 METER ALTITUDE A64-81275

HIGH ALTITUDE EFFECT ON SALIVARY SECRETION AND KIDNEY FUNCTION IN DOG A64-81277

POLYGRAPHIC METHOD FOR MONITORING PHYSIOLOGICAL RESPONSE IN AUTOMATIC DIAGNOSIS OF HYPOXIA

A64-81285

PHYSICLOGICAL RESPONSE AND ADAPTATION TO HYPOXIA IN MAN AND OTHER ORGANISMS

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA A64-81324 SLOW ROTATING ROOM

BODY REACTION TO PAINFUL STIMULI - ACTIVE AND PASSIVE N64-10117 JPRS-21617

PHYSICLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE N64-10265 FL IGHT

REACTIONS TO ACCELERATION JPRS-21908

N64-10383

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS

N64-10703

PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS N64-11135 JPRS-20171

APPARATUS FOR CORRELATIVE ANALYSIS OF PHYSICLOGICAL PROCESSES JPRS-18899

N64-11430

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT

N64-11690

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING N64-11694 SPACE FLIGHT

PHYSICLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT N64-11698

PHYSICLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS CURING STRESS OF ACCELERATION N64-11699

N64-11946

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD N64-11852 ACCEL FRATIONS

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSICLOGICAL FUNCTIONS OF DOGS IN BALLISTIC N64-11860 ROCKET ELIGHTS

PHYSICLOGICAL RESPONSE OF NERVOUS SYSTEM COMPONENTS **TPST-985**

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLCCD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND N64-13453 PRCTECTIVE CLOTHING

PHYSICLOGICAL EFFECTS OF ROTATIONAL ACCELERATION IN RELATION TO MOTION SICKNESS, SPATIAL DISCRIENTATION, & BLACKOUT N64-134 N64-13454

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG CURATION - ANATOMICAL STUDY OF DOG KIDNEY

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS N64-13827 RTD-TDR-63-3077

PHYSICLOGY OF ATTENTION - DYNAMICS OF LATENT PERIODS OF MOTOR REACTION TO REPEATED STIMULI N64-14147 JPRS-22892

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES N64-15153 JPRS-23169

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA N64-15346

CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS OF RADIATION EXPOSURE ORO-614 N64-16551

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED **OXYGEN TENSION** SAM-TDR-63-64 N64-16640

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS JPRS-23917 N64-17738

PHYSIOLOGICAL REACTIONS TO RADIATION & RINTELEMETRY JPRS-24301

N64-18972

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL NADC-MA-6321 N64-20329

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION NADC-ML-6402 N64-204 N64-20450

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON **FLIGHTS** N64-20598 NASA-CR-53652

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING PHYSIOLOGICAL RESPONSES FTD-TT-63-1029/16264 N64-21544

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS FTD-TT-63-1095/162 N64-N64-21941

HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND N64-22075 DECELERATION FORCES

PHYSIOLOGICAL RESPONSES OF RABBITS FTD-TT-62-1642

N64-22168

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO N64-23696 SLOW ROTATION

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO **ACCELERATION**

N64-23697

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES -INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24 N64-24610

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT N64-25167

PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE GASES ON CELLULAR SYSTEMS N64-25925 AD-600641

THRESHOLD OF ACCELERATION SENSATION IN MAN N64-26880 JPRS-25929

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS - COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY N64-27630 JPRS-25844

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS FTD-TT-64-258/18284 N64-27844

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT

N64-28948

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, WEIGHTLESSNESS, ACCELERATION, AND BIOINSTRUMENTATION N64-29339 NASA-RP-306

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION AD-603C74

N64-30859

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLCCD HISTAMINE CONTENT AND CHOLINESTERASE ACTIVITY IN HUMAN BODY N64-31540

KETCNE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION APR-2 N64-32144

PHYSICLEGICAL REACTIONS OF ANIMALS DURING SPACE **FLIGHTS** JPRS-26994 N64-32796

LOSS CF CONSCIOUSNESS IN AVIATION PERSONNEL -PHYSICLOGICAL SYNCOPE REPT -- 16 N64-33570

PHYSICLOGICAL TELEMETRY

PERSONALIZED RADIO TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONDITIONS A64-23809

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT

BICHEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH STUDIES CF F-105 PILOTS A64-80094

RADIOTELEMETRY APPLIED TO STUDIES OF PHYSIOLOGY OF WORK AND SPORTS A64-80353

CENTRAL NERVOUS SYSTEM FUNCTIONAL INTEGRITY ASSESSED THROUGH RADIO-TELEMETRY DURING MANNED SPACE FLIGHT A64-80435

PHYSICLOGICAL TELEMETRY METHOD DURING EXERCISE -STUDY OF HEART AND RESPIRATORY RATE

A64-80474

A64-80731

TELEMETRIC RECORDING OF RESPIRATORY AND PULSE RATE DURING EXERCISE - EVALUATION OF FATIGUE AND CARDICVASCULAR SYSTEM A64-80475

NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP A64-80535

BICELECTRICITY AS POWER FOR IMPLANTED ELECTRONIC DEVICES IN RAT A64-80537

ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY

PHYSICLOGICAL TELEMETRIC METHOD USING SWALLOWABLE RACIOCAPSULE FOR STUDY OF GASTROINTESTINAL PRECESSES A64-80792

BLCOD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS 464-80916

HEART RATE BEFORE, CURING AND AFTER STRENUOUS PHYSICAL EXERCISE IN FEMALE MEASURED WITH A64-80992

UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT A64-81021

USE OF RADIOCAPSULE IN PH DETERMINATION OF **GASTRGINTESTINAL CONTENT** A64-B1022

TELEMETERED HEART RÉCORD FROM GYMNASTS DURING ROPE A64-81194

SECOND SYMPOSIUM ON OPERATION AND USE OF BICTELEMETRY IN SYERDLOVSK, USSR

A64-81331

PHYSICLOGY

SA BODY COMPOSITION /BIOL/

SA ENDCCRINE SYSTEM SA GASTROINTESTINAL SYSTEM

SA HOMEOSTASIS

SA NEUROPHYSIOLOGY

SA PSYCHOPHYSIOLOGY

CF DYSBARISM CF FLIGHT FATIGUE

CF HUMAN BODY CF METABOLISM

CF NEUROLOGY

COLD STRESS EFFECT ON CEREBRAL FUNCTIONS AND THE RELATIONSHIP OF CEREBRAL FUNCTIONS TO METABOLIC A64-14991

SPACE FLIGHT STRESS ANALOGIES TO THAT IN THE FETUS AND DURING ADAPTATION AT BIRTH A64-80205

DXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND ANALYSIS OF BLOOD GASES A64-80247

EDEMA AT HIGH ALTITUDE IN RELATION TO CARDIOVASCULAR PHYSIOLOGY

A64-80276

ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION

A64-80279

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE,
AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE DECCMPRESSION IN SUBJECTS WEARING A FRENCH HIGH-ALTITUDE SUIT A64-80282

THEORETICAL IMPLICATIONS OF RELATIVITY ON AGING -PHYSIOLOGICAL PROCESSES IN SPACE TRAVELERS A64-80350

RADIOTELEMETRY APPLIED TO STUDIES OF PHYSIOLOGY OF WORK AND SPORTS

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND

MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS EVOKED BY LOUD NOISE IN GUINEA PIGS

A64-80367

AMPLITUDE AND DURATION OF OCCIPITAL ELECTROENCEPHALOGRAPHIC RESPONSE TO DIFFERENT INTENSITIES OF FLASH STIMULATION

A64-80375

QUANTITATIVE MORPHOLOGIC ANALYSIS OF HUMAN LUNG BY NEW METHODOLOGY A64-80386

BODY TREMOR RELATED TO DIFFERENTIAL STIMULATION OF CENTRAL NERVOUS SYSTEM A64-80389

ORGAN SYSTEM RESPONSE AND ADAPTATION TO ENVIRONMENTAL CHANGES - HANDBOOK

A64-80414

ADAPTIVE MECHANISMS OF HIBERNATORS RESPONDING TO LOW TEMPERATURE A64-80424

PHYSIOLOGY OF NATURAL ACCLIMATIZATION OF MAN BORN AND LIVING IN HIGH ALTITUDE ENVIRONMENT A64-80432

BIDASTRONAUTICS, PHYSIOLOGICAL PROBLEMS, TECHNOLOGICAL ASPECTS, SPACE FLIGHT OPERATIONS, AND PERSPECTIVES A64-80476

ELECTROENCEPHALOGRAPHIC PATTERNS IN CASES OF CHRONIC EXPOSURE TO CARBON MONOXIDE CORRELATED WITH NEURASTHENIC SYMPTOMS A64-80 A64-80492

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION 464-80502

SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64~80509

CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRADED TREADMILL EXERCISE A64-80516

ANATONY, PHYSIOLOGY AND MECHANICS OF HUMAN MOTION

EUR-489.F

WITH APPLICATIONS TO PHYSICAL EXERCISE A64-80596 TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN FLECTRIC PROPERTIES OF TISSUES A64-80893 SYNDROME A64-80943 PHYSICLOGY OF DIURNAL RHYTHMS PHYSIOLOGY TECHNIQUES AND METHODS OF CONDUCTING PHYSICTHERAPEUTIC PROCEDURES MEDIUM N64-10C50 JPRS-21725 OUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE SAM-TDR-64-4 N64-10505 JPRS-18772 MEDICAL CONFERENCES ON MINERAL MATER USE, CLIPATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE PHYSICLOGY, AND EPIDEMIOLOGY ALGAE FTD-MT-63-49 N64-10515 JPRS-21836 HUMAN PHYSICLOGY AND PATHOLOGY IN HIGH-ALTITUDE N64-10516 AREAS BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS CRIAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND STRUCTURAL-MORPHOLOGICAL TECHNIQUES N64-10713 JPRS-17717 PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY -RADIATION SICKNESS, CONGENITAL DISEASE, AND HETERCHEMOTRANSFUSION REACTIONS N64-10723 RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS **EPISTEPCLCGY** THERMOREGULATION PHYSICLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN N64-11352 JPRS-19762 ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS FOR ULTRASENIC PHYSIOTHERAPY N64-11871 JPRS-22280 CYBERNETICS IN MEDICINE & PHYSIOLOGY NASA-CR-56526 N64-11918 JPRS-22377 IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE N64-12346 CARI-63-11 PHYSICLOGY & PROBLEMS OF CYBERNETICS DENSITY LIPOPROTEINS N64-12512 INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR NASA-TT-F-173 FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518 PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL FTD-TT-63-916/1 MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN PHYSICLOGICAL MONITORING SYSTEM PROTECTION MECHANISMS IN ANIMALS AMRL-TCR-62-98/2/ N64-13872 FTD-TT-62-1548/16264 PHYSICLOGICAL FACTOR OF ACOUSTIC FATIGUE IN HEARING PURE TONES AND PROTECTION - ANIMAL STUDY N64-14410 CARI-63-19 PHYSICLOGY, BIOPHYSICS, & BIONICS DIAGNOSIS OF HEART MALFUNCTION N64-14523 JPRS-23022 INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS SATELLITE FLIGHTS N64-14530 JPRS-23060 OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIEC TO HUMAN RESPIRATION PHYSIOLOGY N64-15042 ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS N64-15570 SAM-TER-63-95 ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RACIDACTIVE CONTAMINATION IN FOOD CHAIN

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171 N64-17539 GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY N64-17955 RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER N64-17956 SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY N64-17963 PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON N64-18672 USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM N64-18830 TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE ORGANS - AUDITORY DISCRIMINATION N64-18831 PHYSIOLOGICAL MECHANISMS FOR STUDYING HUMAN BODY N64-18966 ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152 PHYSIOLOGICAL MECHANISMS OF CHEMICAL N64-22169 FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH CXYGEN-LCW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE N64-22170 EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS — ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY N64-22787 PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854 LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW N64-22864 PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM N64-23204 METHODS OF PHYSIOLOGICAL TESTING IN HUMANS N64-23428 PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND N64-23463 ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION N64-23464 COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR N64-23698 BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND N64-23737 PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23 N64-23741 PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767 ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES N64-24324 FTD-TT-63-1191

N64-16927

MECHANICS OF HUMAN BODY

N64-24339

AMRL-TDR-63-123

SUBJECT INDEX PHYSICLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS N64-25140 GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLCOD JPRS-25364 PHYSICLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS ARL-TDR-64-4 METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES SM-45905 PHYSICLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BICLOGICAL MUTATION UCRL-11387 N64-27799 HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY N64-28009 BICLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED JPRS-26060 N64-28446 PHYSICLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES FPRC/MEMC-201

FPRC/MEMC-201 N64-28698

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/

NASA-CR-58287

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33

N64-29194

RADIOTELEMETRY APPLIED TO SPORT & WORK PHYSIOLOGY
N64-30236

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSICLOGICAL VARIABLES N64-30345

PHYSICLCGICAL VALUE OF RACIOISOTOPE - KINETIC BEHAVIOR OF TRACERS BNL-857/T-341/ N64-30623

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY JPRS-26558 N64-30777

PHYSICLEGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS AAL-TER-63-16 N64-30975

PHYSICLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLCATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGMUS RECORDING INSTRUMENTATION FTD-TT-64-386/162 N64-31074

PHYSICLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS JPRS-26427 N64-31457

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459

PHYSICLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537

INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE

JPRS-26841

N64-31840

INCIDENCE CF PHYSIOLOGICAL SYMPTOMS IN HEALTHY MEN AFTER EXPOSURE TO RAPID DECOMPRESSION -ALTITUDE SIMULATION TESTS RR-3 ANNOTATED BIBLICGRAPHY ON LIFE SUPPORT SYSTEMS SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-52
N64-32355

ANNOTATED BIBLICGRAPHY ON LIFE SUPPORT SYSTEMS SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-53
N64-32356

NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR MODIFIED BY DRUG INDUCEMENT AD-601689 N64-32410

PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS NASA-TT-F-9120 N64-33399

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY

JPRS-26990

N64-33

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR.
PHYSIOLOGY, ENDOCRINOLOGY, GENETICS. EMBRYOLOGY,
EVOLUTION, AND CELL BIOLOGY
NASA-CR-59307
N64-33513

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS - PHYSIOLOGY

NASA-CR-59374 N64-3390
PI-ELECTRON

TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS
N64-28311

PIG
DEGREE OF RETENTION IN MINIATURE SWINE OF
INGESTED AND INTRAVENOUSLY INJECTED
RADIONUCLIDES USED IN SNAP /SYSTEM FOR
NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

PIGEON
UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF
PIGEON DURING EXERCISE
A64-80734

SUN COMPASS ORIENTATION IN PIGEONS AFTER TRANSLOCATION NORTH OF ARCTIC CIRCLE

A64-80907

A64-80626

THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT RADIAL ACCELERATION IN PIGEON A64-81024

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR UR-ENG-49-7 N64-19921

PIGMENT CF MELANIN

RADIOSENSITIVITY OF ORGANISMS TO IONIZING
RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN
PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363
N64-11069

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA FTD-TT-63-867/162 N64-12

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS SAM-TDR-63-57 N64-13852

PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS, AND ELECTRON SPIN RESONANCE SIGNALS AD-602394 N64-32295

PILOCARPINE
PILOCARPINE INDUCED MIOSIS AND PROTECTION OF
RETINA AGAINST THERMAL RADIATION

PILOT
SA JET PILOT
SA TEST PILOT
STEROID AND CATECHOLAMINE EXCRETION OF PILOTS
IN SPACE CABIN SIMULATOR
A64-12938

POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER 464-12992 OCCUPATIONS

BACK INJURIES IN PILOTS AFTER CATAPULT EJECTION A64-12993

NEPHRITIS AND RENAL CALCULUS IN FRENCH AIRCREWS A64-80032

FRONTAL MUCCCELE REVEALED BY BAROTRAUMA

A64-80034

CONTACT DERMATITIS OF HANDS OF PILOT DUE TO WEARING UNLINED FLIGHT GLOVES. NO. B3A 464-80098

CARDIOVASCULAR DISEASE AND DISORDER FOUND IN MILITARY AND CIVILIAN PILOTS INVOLVED IN AIRCRAFT A64-80223

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT 464-80280

DECOMPRESSION SICKNESS AT 18,500 FEET - CASE A64-80442 HISTORY OF PILOT

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

PHYSICLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION 464-80502

HAND PREFERENCE IN PILOTS AS RELATED TO FLYING A64-80690

PSYCHOSOMATIC BASES FOR EYE DISEASES IN THE A64-80755 AVIATOR

SPEECH DISCRIMINATION TEST FOR AGING NAVAL AVIATORS PRESENTED TOGETHER WITH AIRCRAFT A64-80854 BACKGROUND NOISE

AGE EFFECT ON SEQUENTIAL DECISIONS AND CARDIGVASCULAR STATUS AMONG PILOTS

A64-80864

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED TO AIRCRAFT ACCIDENTS

A64-A6 A64-80923

RAPID ACCELERATION EFFECT ON SYMPATHICCTONIC CHARACTER OF ELECTROCARDIDGRAM IN PILOTS EJECTED FROM CATAPULTS A64 A64-80979

ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT OF JET PILOT WITH FLIGHT FATIGUE A64-81069

EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION CHANGES IN BLOOD OF PILOTS N64-10433 REPT.-63-2

VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES

GEOGRAPHIC ORIENTATION & DISORIENTATION OF AIRCRAFT PILOTS N64-13608 TR-751-1

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS N64-24040

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN PILOT NASA-RP-206 N64-25000

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE N64-29768 FPRC-MEMC-199

PILOT FRROR NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN AIRCRAFT ACCIDENTS

PILOTING ERRORS AND AIRCRAFT INSTRUMENTS N64-12238 RSIC-89

PILOT PERFORMANCE MEASUREMENT OF AMPLITUDES OF VISUAL ACCOMMODATION UNDER RED AND WHITE ILLUMINATION LEVELS APPROXIMATING COCKPIT CONDITIONS

A64-10251

SHORT TERM PSYCHOTHERAPEUTIC TREATMENT OF AVIATORS WITH PSYCHOGENIC PROBLEMS, AND SUBSEQUENT FLIGHT A64-10261 STATUS

CASE REPORT ON 36-YEAR OLD COMMERCIAL PILOT SUFFERING FROM RHEUMATOID ARTHRITIS AND PROBLEM OF THERAPY RELATIVE TO FLYING SAFETY

A64-10262

VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN MANNED SPACEFLIGHT A64-1062

INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION FOR MANNED SPACE FLIGHT 464-10628

VESTIBULAR STIMULATION EFFECTS ON VISUAL PERCEPTION FROM MANNED SPACE FLIGHT

A64-10629

REGRESSION ANALYSIS OF RESPONSE TIME, FOR PILOT SENSORY MOTOR PERFORMANCE IN RELATION TO AGE A64-11507

PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN SELECTION OF FLYING PERSONNEL ASSIGNED TO SUPERSONIC AND HYPERSONIC TRANSPORT AIRCRAFT A64-11728

RELATIONSHIP OF VESTIBULAR TEST RESPONSES, ESPECIALLY THOSE WHICH ARE ELECTRONYSTAMOGRAPHIC, TO PILOT PERFORMANCE DURING FLIGHT TRAINING A64-12380

FEASIBILITY OF PILOT CONTROL OF THE X-20/
TITAN III BOOSTER, GIVING RESULTS OF SIMULATION
WITH BOOST CONSTRAINTS A64-12 A64-12899

TRANSFER FUNCTION OF HUMAN PILOT OPERATING IN CLOSED LOOP CONTROL SITUATION, USING SINGLE AXIS
AND TWO AXES TESTS, AND COMPARISON OF PILOT AND
MODEL PILOT PERFORMANCE
A64-166 A64-16652

ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL A64-19138 AVIATION ACCIDENTS

POSITION AND FORM EFFECTS ON COMBINATION OF INFORMATION IN SUPERIMPOSED VISUAL FIELDS SHOWN FROM PILOT PERFORMANCE OF CONCURRENT TASKS

TEST PILOT - HIS ROLE, PERFORMANCE AND ASSESSMENT A64-19803

PILOT PERFORMANCE IN COPING WITH CRITICAL SYSTEM FAILURES DURING MERCURY ORBITAL FLIGHTS AIAA PAPER 64-222 A64-20127

ELECTROENCEPHALOGRAPHIC FINDINGS AND CALORIC IRRIGATION OF RIGHT EAR STUDIED IN DIAGNOSIS OF INFLIGHT LOSS OF CONSCIOUSNESS IN PRIVATE PILOT A64-20702 FLYING ALONE

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MAN-MACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT A64-20783 AIAA PAPER 64-421

LATERALITY FACTOR IN RELATIONSHIP BETWEEN HAND PREFERENCE PATTERN AND FLYING SKILL IN AIRCREW A64-22817

EFFECTS OF ACCELERATION ENVIRONMENT ON ASTRONAUT PHYSIOLOGICAL AND PERFORMANCE CAPABILITIES A64-23213

VISUAL GUIDANCE AIDS FOR MANUAL FLIGHT CONTROL 464-23298

PHYSIOLOGICAL AND PHARMACOLOGICAL EFFECTIVENESS OF ADENOSINETRIPHOSPHORIC ACID AND COCARBOXYLASE IN TREATMENT OF PILOTS AFFLICTED WITH FLIGHT FATIGUE A64-24099 ROCKET ASSISTED EJECTION ADVANTAGE OVER BALLISTIC EJECTION, CONSIDERING SYSTEM MALFUNCTION, PILOT INJURIES, ACCIDENT CAUSES AND ALTITUDE

A64-25552

FLASHBLINDNESS PROBLEMS EVALUATED, DISCUSSING RELATION OF ADAPTATION OF EYE TO CHANGING LIGHTING CONDITIONS AND RECOVERY OF SENSITIVITY TO FUNCTIONAL LEVEL A64-25555

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN A64-25574

HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL RESERVES OF PILOT A64-27025

DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION AND IMPACT ON PILOT EFFICIENCY

A64-2702 A64-27026

HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL RESPONSES DURING AND AFTER FLIGHT

A64-80333

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED DRIGIN A64-80717

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

A64-80823

N64-12256

ENHANCEMENT OF PILOT PERFORMANCE CAPACITY BY ADEQUATE NUTRITION A64-81257

HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY N64-10147

PILOT EIGMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL N64-13499

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041

NADC-MA-6308

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES N64-15107

PILOT REACTION TO HIGH SPEED ROTATION NASA-RP-133

N64-15841

N64-22440

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION NA SA-TN-D-2177 N64-17157

PILOT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT TO HIGH ALTITUDE NASA-TN-D-2289 N64-19002

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS ARL/HE-15 N64-22133

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FL IGHTS NASA-TH-X-56005

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE

AIAA PAPER-64-222 N64-23609

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS NASA-CR-56374 N64-23993

EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT

PERFORMANCE AND DYNAMIC RESPONSE NASA-TN-D-2067

N64-24815

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR

IAM-TM-226

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE FPRC/MEMO-203 N64-26000

AUTOMATIC COMPUTER METHODS FOR DETERMINING PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL NASA-CR-56373 N64-27385

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT N64-28948

INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE AD-441953 N64-30199

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS NASA-TN-D-2162 N64-33080

PILOT SELECTION EYE MOTILITY EXAMINATION BY OBJECTIVE TECHNIQUES TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION

CORRELATION OF FLYING APTITUDE WITH ELECTRO-ENCEPHALOGRAM FOR AIRCREW SELECTION

A64-19137

AEROMEDICAL ASSISTANCE TO INDUSTRIAL PHYSICIANS IN PILOT AND PASSENGER SELECTION FOR BUSINESS FLIGHTS A64-22820

RESPIRATORY VOLUME PER SECOND AND TIFFENEAU INDEX IN OVER 1000 PILOT CANDIDATES FOR SCREENING A64-24098

EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT A64-25007

OPTIMUM ASTRONAUT SELECTION WITH REGARD TO INFLIGHT TESTING AND ACTUAL MISSION PERFORMANCE REQUIREMENTS A64-28344

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED QUANTITATIVELY A64-80255

AEROMEDICAL SELECTION STANDARDS OF NATO NATIONS FOR AIRCREWS REEVALUATED A64-80269

KINETIC VISUAL ACUITY IN PILOT SELECTION AND EVALUATION OF FATIGUE A64~80315

COMPARISON OF SELECTION STANDARDS FOR ASTRONAUTS AND PILOTS A64-80391

MOTOR VEHICLE ACCIDENTS OF FLYING AND NONFLYING AIR FORCE PERSONNEL AS RELATED TO SELECTION AND TRAINING A64-80686

CORONARY DISTURBANCES AND FLYING AS RELATED TO PILOT SELECTION EXAMINATIONS A64-80769

STEREOTYPED IMAGE OF MILITARY PILOT EXPLORED IN RELATION TO PHYSICAL CHARACTERISTICS APPARENT ON PHOTOGRAPHS A64-81182

PSYCHOLOGICAL CONTRIBUTIONS OF AEROSPACE PHYSICIANS TO PILOT TRAINING

PILOTED CENTRIFUGE CENTRIFUGES USED TO TEST ACCELERATION VARIABLES AND EFFECTS ON HUMAN ORGAN SYSTEMS A64-24393

PITCH ATTITUDE SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL, PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE A64-80861 PITUITARY GLAND
WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY
CORTICOSTEROID LEVELS A64-80636

THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY EXTRACT
NASA-RP-55
N64-10293

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344

PLANET

CF MARS /PLANET/ EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM SURFACE WAVE N64-13575

PLANETARY ATMOSPHERE

CF MARS ATMOSPHERE

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY
CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES,
PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY
NASA-CR-56526
N64-22787

PLANETARY BASE

ARCHARY BASE

ECOLOGICAL SYSTEMS IN SPACE VEHICLES CONTRASTED

HITH THOSE IN PERMANENT OR SEMIPERMANENT LUNAR OR

PLANETARY BASES

A64-8048

PLANETARY ENVIRONMENT

SA MARS ENVIRONMENT
GRAVITATIONAL, MAGNETIC, RADIATION, ATMOSPHERIC,
HYDROSPHERIC, LITHOSPHERIC, AND BIOTIC
ENVIRONMENTAL DATA NEEDED FOR SUCCESSFUL MANNED
FLIGHT TO MARS
A64-1010

COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN ENVIRONMENT A64-14461

BIOLOGICAL CONTAMINATION OF MARS BASED ON TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED MARTIAN ENVIRONMENTS A64-24978

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SOLAR RADIATION ENVIRONMENT OF INTERPLANETARY SPACE A64-80061

SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON MICROORGANISMS A64-80354

ENVIRONMENTAL CONDITIONS OF MARS AND VENUS
A64-80787

LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE, LIFE FORMS, AND SOIL STUDY A64-80860

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES NASA-CR-50483 N64-22775

TERRESTRIAL MICRODRGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON NASA-CR-56529 N64-22790

PLANETARY EXPLORATION

ORBITAL AND UNMANNED LANDING VEHICLES FOR THE BIOLOGICAL EXPLORATION OF MARS A64-10128

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS A64-24949

SCIENTIFICALLY TRAINED ASTRONAUTS IMPORTANT FOR LUNAR AND PLANETARY EXPLORATION

A64-28343 LIFE SUPPORT SYSTEMS FOR FUTURE ORBITAL AND EXPLORATORY MISSIONS FOR PERIODS UP TO A YEAR A64-80563

PLANETARY SPACEFLIGHT
SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON
MICROORGANISMS A64-80354

PLANETARY SURFACE
EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC
PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF
SOLUBLE CONSTITUENTS OF PLANETARY SOIL
NASA-CR-56523
N64-227

PLANKTON
LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON
N64-12498

PLANNING S MANAGEMENT PLANNING

PLANT /BIOL/
CF ANGIOSPERM
CF THERMOPHILIC PLANT
PHYSICAL CONSTANTS OF VERMICULITE, PENOSHAMOTE,
CERAMSITE AND PERLITE SUBSTRATES FOR CLOSED
ECOLOGICAL SYSTEMS
A64-25587

AUTOMATED SYSTEM FOR STUDYING EFFECT OF MINERAL NUTRIENT SOLUTION COMPOSITION ON PHOTOSYNTHESIS IN HIGHER PLANTS A64-25616

NATURAL RADIATION AS RELATED TO INNATE RADIOACTIVE LEVELS IN PLANTS AND ANIMALS A64-80497

BIOLOGICAL EFFECTS OF WEIGHTLESSNESS, AND ASSOCIATED PHENOMENA ON CARDIOVASCULAR SYSTEM IN HUMAN AND ON PLANT PROCESSES A64-81195

INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS

N64-11682

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS FTD-TT-62-1609/1 N64-16053

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS JPRS-23735 N64-16950

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND
ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE
CULTURES
N64-1
MMCL-TDR-63-124
N64-1

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE FTD-HT-63-49 N64-18672

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISOTOPES IN MARINE PLANTS AND ANIMALS

JPRS-24227 N64-18969

PLANT STUDY - EFFECT OF TEMPERATURE, MOISTURE AND LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION EXCHANGE RESINS AS MEDIA RADC-TOR-63-183 N64-21353

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

N64-21643

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NSA-CR-56526 N64-22787

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE

FTD-TT-64-140/164

N64-24012

PLASMA

CF BLOOD PLASMA
WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY
CORTICOSTEROID LEVELS
A64-80636

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION

JPRS-18020 N64-11023

PLASMA PHYSICS S THERMODYNAMICS

PLASMOLYSIS

FLUORESCENCE OF CULTURES OF CHLORELLA
PYRENCIODSA EXPOSED TO VARYING CONCENTRATIONS OF
PLASMOLYTICS AT DIFFERENT STAGES OF CELL
DEVELOPMENT
A64-80806

PHOTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE

A64-80808

PLASTIC DEFORMATION

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC LIMIT OF COHESIVE SOILS RR-117 N64-27604

PLASTIC MATERIAL

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS JPRS-18644 N64-11316

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE FTD-TT-63-732/184 N64-14333

USE OF PLASTIC MATERIALS IN MEDICINE

N64-14335

PLASTIC PROPELLANT S PROPELLANT

PLUTONIUM

RACIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING WEAPONS SC-4973/RR/ N64-14046

PLUTONIUM-239

FRACTION AFTER PLUTONIUM-239 INJURY

N64-12571

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/1&2 N64-16377

PNEUMOGRAPHY

IMPEDANCE PNEUMOGRAPHY FOR LONG-TERM MONITORING AS COMPARED TO OTHER PNEUMOGRAPHIC METHODS FOR HUMAN AND CHIMPANZEE STUDIES A64-B0848

PNEUMOTHORAX

SPONTANEOUS PNEUMOTHORAX IN FLYING PERSONNEL - ITS ETIOLOGY, PATHOLOGY, DIAGNOSIS, AND TREATMENT

POISON

TOXICOLOGICAL METHODS FOR DETECTION OF POISONOUS
COMPOUNDS OF INTEREST IN AEROSPACE MEDICINE
A64-80349

LOSS OF CONSCIOUSNESS ASSOCIATED WITH POISONS, INCLUDING CARBON MONOXIDE, AND VARIOUS DRUGS
A64-80716

POISONING

SA BENZENE POISONING SA BERYLLIUM POISONING

SA CARBON MONOXIDE POISONING
SA HYDROCARBON POISONING
SA OXYGEN TOXICITY
TETRACHICARETHY THE LUCESTION PROPOSETION ACTIVITY

TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-80893

PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE
POISONING IN RABBIT A64-81052

PENTABORANE POISONING AND RELATION BETWEEN LETHAL AND INCAPACITATING DOSAGES IN MAMMAL

A64-81177

CASE HISTORY AND TREATMENT OF OXYGEN POISONING WITHOUT HYPOVENTILATION AFTER CONTINUOUS OXYGEN THERAPY A64-81181

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING NADC-MA-6324 N64-15363

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST
UR-646

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY JPRS-26216 N64-30241

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM
POISONING
N64-30245

CHROMIUM COMPOUND POISONING JPRS-26768

N64-31267

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES
OF SUSPECTED ANILINE POISONING
NASA-TT-F-9056
N64-31445

POLAR REGION

ACCLIMATIZATION OF MAN TO POLAR REGIONS

A64-80426

POLARIZABILITY
ELECTRONIC POLARIZABILITY CHANGES OF EXCITED
ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS
N64-19465

POLARIZATION

VESTIBULAR STIMULUS EFFECTS ON ELECTROCORTICOGRAM IN CAT A64-80870

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT

A64-80871

POLAROGRAPHY

POLAROGRAPHIC METHOD FOR STUDY OF OXYGEN SATURATION OF BRAIN TISSUE IN DOG

A64-81254

OXYGEN SATURATION IN BRAIN TISSUE IN DOG INHALING VARIOUS GASEDUS MIXTURES A64-81255

OXYGEN SATURATION AND TEMPERATURE OF BRAIN TISSUES UNDER CONDITIONS OF PHYSIOLOGICAL STRESS DETERMINED BY POLAROGRAPHIC METHOD IN DOG A64-81256

OXYGEN DISSOCIATION CURVE DETERMINATION -POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE SAM-TDR-64-39 N64-29287

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES
JPRS-27237
N64-33675

K3-21231

POLIOMYELITIS
BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION.

HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA JPRS-20298 N64-11224

POLLUTION
CF AIR POLLUTION
DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF ECHINOCOCCUS
AAL-TDR-63-37
N64-32102

POLONIUM
PROTECTION AGAINST RADIATION HAZARDS IN WORKING
WITH POLONIUM
1085-23400 N64-15992

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS JPRS-26542 N64-29759

POLYMER

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON
COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN
RABBITS

N64-3134

POLYMER CHEMISTRY
PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTIOXIDATION PROPERTIES OF VARIOUS POLYPHENOL
STRUCTURES - CHEMOTHERAPY
JPRS-23567
N64-16543

POLYMER PHYSICS
POLYVINYL PYRROLIDINE EFFECTIVENESS IN
REDUCING RETENTION OF RADIOISOTOPES IN BODY
N64-10039

BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, AND BRAIN NEURONS JPRS-24261 N64-19437

POLYMERIZATION

CARBOHYDRATE SYNTHESIS IN SPACECRAFT CABIN BY
FORMALDEHYDE POLYMERIZATION REACTION

A64-25608

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151

POLYMETHYL METHACRYLATE
PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN
SPACECRAFT ENVIRONMENT DURING FLIGHT
N64-11702

POLYSACCHARIDE

DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM GF
HYPOTHERMIC DOGS

A64-80086

COLD AND RESTRICTION STRESS EFFECT ON ACID
MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE
TISSUE AND ENDOCRINE GLANDS IN RAT
A64-80514

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY CHLORELLA AND OTHER ALGAE USED IN CLOSED ECOLOGICAL SYSTEMS AS RELATED TO RECYCLING TIME OF GROWTH A64-80784

SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS AD-430401 N64-16098

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM N64-29722

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI AMRL-TDR-64-52 N64-29974

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019

POLYURETHANE S SYNTHETIC RESIN

POLYVINYL ALCOHOL
HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL
SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER POLYVINYL ALCOHOL
N64-18523

POPULATION
BISECTION OF DESIGNATED VISUAL SPACE AS FUNCTION

DESIGNATED VISUAL SPACE AS FUNCTION OF FIDUCIAL LINES

A64-81300

ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWER-PLANTS TID-19562 N64-16554

POROSITY
S GAS INJECTION

PORPHYRIN

CF CHLOROPHYLL

CF MEMOGLOBIN

PORPHYRINS FOUND IN THE ORGUEIL METEORITE AND

THEIR RELATION TO THE ORIGIN OF LIFE

A64-8034

ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA N64-15038

PORTABILITY
PORTABLE ELECTROMANOMETER FOR DIRECT BLOOD
PRESSURE MEASUREMENT UNDER FIELD CONDITIONS
A64-80295

POSITION INDICATOR
S AIRCRAFT INSTRUMENT

POSITRON
POSITRON SCINTILLATION CAMERA FOR DETECTING REAL
AND SIMULATED BRAIN TUNORS
N64-15215

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA N64-22853

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858

POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ASTRONAUTS N64-25168

POSTURE

CF ORTHOSTATIC TOLERANCE
POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER
OCCUPATIONS

A64-12992

IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE AND CONTAINMENT A64-14002

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION A64-80016

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE RELATED TO BODY POSITION IN RABBIT

PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND RECUMBENT POSITION A64-80058

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE
OF OCULAR AND NECK MUSCLES A64-80072

RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN SUPINE POSITION A64-80079

CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABOONS DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND EXERCISE A64-80087

SCOTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED BODY POSITION A64-80140

AGING EFFECT ON POSTURE CONTROL

A64-80185

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON OTOLITH ORGANS OF RABBITS LYING IN LATERAL POSITION ON PARALLEL SWING A64-80244

DTCLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

BLCCD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION

A64-80271

ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVICR BY CHICKEN A64-80321

ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL SEMICIRCULAR CANALS BY ELECTRO— AND PHCTOELECTRONYSTAGMOGRAPHY A64-80373

ELECTROMYOGRAPHIC STUDY OF HIP AND THIGH MUSCLE FUNCTION IN ROMBERG POSITION AND STANDING AT EASE A64-80383

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI

A64-80496

VERTEBRAL FRACTURES AS RELATED TO EJECTION SEAT DESIGN, POSTURE, AND EJECTION FORCES

A64-80501

ROLE OF GRAVITY AND BODY POSITION IN SPATIAL CRIENTATION A64-80691

RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF RESPIRATORY SYSTEM IN MAN IN SEATED POSTION A64-80699

GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND PERCEPTION OF VERTICAL IN PRESENCE OF TILTED VISUAL FIELD 464-80703

BASE-LINE EFFECTS ON RESPONSE ON STROKE VOLUME TO LEG EXERCISE IN THE SUPINE POSITION

A64-80736

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD
THPACTS
A64-80

PRESSCR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS CRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS A64-81002

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE ARL-TDR-63-28

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS NASA-CR-55614

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA

MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE

N64-28038

POTASSIUM COMPOUND

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE — ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

POWER

- NUCLEAR POWER
- POWER GENERATOR

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47 ESD-TDR-63-656 N64-15752

ROWER SUPPLY

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY REIC MEMO-25 N64-24967 PRACTICE

CF MEMORY REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR VISUAL PURSUIT A64-12934

REACTION TIME TO REGULARLY RECURRING VISUAL STIMULI A64-80583

CHANGES IN DISTANCE JUDGMENTS AS RELATED TO CORRECTED AND NONCORRECTED PRACTICE

A64-81137

PSYCHOMOTOR TASK PERFORMANCE WITH PERFECT RECALL AFTER FIFTY WEEKS OF NO PRACTICE

A64-81145

PRECORDIUM

TIMING AND WAVEFORM VARIATIONS OF VIBROCARDIOGRAMS FROM MULTIPLE POSITIONS ON PRECORDIUM

VIBROCARDIDGRAM VARIATIONS OVER PRECORDIUM AND SOUND TRANSMISSION RATE A64-80689

TESTING HEART FUNCTION BY ANALYSIS OF ITS PRECORDIAL VIBRATION SPECTRUM NASA-CR-53818 N64-19313

PRESERVATION

IONIZING RADIATION AS A FOOD PRESERVATIVE JPRS-17530 N64-10694

PRESERVATION OF FRUITS AND VEGETABLES BY IDNIZING RADIATION TID-19206

N64-12968

PRESSURE

SA ATMOSPHERIC PRESSURE SA BLOOD PRESSURE

SA HIGH ALTITUDE PRESSURE

SA HYDROSTATIC PRESSURE SA INTRACRANIAL PRESSURE

SA INTRACCULAR PRESSURE

SA LOW PRESSURE

SA PARTIAL PRESSURE SA STATIC PRESSURE CF COMPRESSION

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES

PRESSURE BREATHING

RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK DURING POSITIVE PRESSURE BREATHING

RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR ABSENCE OF NITROGEN

PURE DXYGEN INHALATION, ALTITUDE AND PRESSURE BREATHINGS EFFECT ON MAXIMUM BREATH HOLDING TIME A64-23764

CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE WITH AND WITHOUT PRESSURE SUIT A64-28457

ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY MUSCLES DURING POSITIVE PRESSURE BREATHING A64-80050

PRESSURE-VOLUME DIAGRAM TO EXPLAIN MAINTENANCE OF NORMAL BREATHING RHYTHM DURING POSITIVE PRESSURE BREATHING A64-80057

DETERMINATION OF STATIC PULMONARY AND THORACOPULMONARY COMPLIANCE DURING POSITIVE PRESSURE BREATHING A64-80059

PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND DISULPHIDE GROUPS DUE TO HIGH PRESSURE DXYGEN BREATHING IN RATS A64-80073

PRESSURE BREATHING PATTERN VARIATION AND ALVECLAR ARTERIAL GRADIENTS IN DOGS A64-80106

HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC OXYGEN A64-80154 OXYGEN INTOXICATION UNDER NORMAL AND INCREASED A64-80221 ATMOSPHERIC PRESSURE

REFLEX CONTROL OF ABDOMINAL MUSCLES DURING POSITIVE PRESSURE BREATHING A64-80310

AIR EVACUATION OF PATIENTS WITH ACUTE RESPIRATORY PROBLEMS USING INTERMITTENT POSITIVE PRESSURE A64-80605

LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY NEGATIVE PRESSURE BREATHING OF 100 PER CENT OXYGEN A64-80738 IN DOG

HIGH PRESSURE CXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR PRESSURE

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER A64-80920 HIGH PRESSURE

MAXIMUM BREATH HOLDING TIME IN MAN AS AFFECTED BY PURE CXYGEN INHALATION, ALTITUDE, AND PRESSURE A64-80960 BREATHING

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF VISION IN RETINAL ISCHEMIA A64-8 A64-81016

PATHOGENESIS OF HIGH-ALTITUDE EMPHYSEMA WITH AND WITHOUT PRESSURE BREATHING A64-81158

DEPRESSION OF OXYGEN CONSUMPTION AND CARBON DICXIDE REMOVAL IN PRESSURE BREATHING UTILIZING A64-81265

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGE IN PRESSURE BREATHING

N64-17929

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE N64-17930 PRESSURE BREATHING

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE N64-17931 PRESSURE BREATHING

PRESSURE CABIN

PHYSICLOGICALLY DESIRABLE RELATIONSHIP BETWEEN CXYGEN CONCENTRATION IN THE INSPIRED GAS AND THE ABSOLUTE PRESSURE WITHIN A PRESSURE OR SEALED CABIN

RRESSURE CHAMBER

CXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, DXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION A64-80624

CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE

HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF ERYTHRCCYTES IN YOUNG AND MATURE DOG A64-81250

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG

A64-81251

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY TO STIMULANT DRUG A64-81252

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCERTICAL AREAS OF BRAIN IN RABBIT

A64-81253

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF OXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN A64-81263 PRESSURE CHAMBER

TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE A64-81267

RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS N64-27335 ARTC-41

PRESSURE EFFECT MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS A64-80539 STUDIES

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST N64-21078

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS N64-32347

PRESSURE MEASUREMENT

CF IMPEDANCE MEASUREMENT CF TONOMETRY IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE CARI-63-11

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS AMRI-TDR-63-107

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED

ARTERIES NASA-CR-56470

PRESSURE PULSE
COMPUTATION OF BLOOD FLOW VELOCITY FROM PRESSURE
PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC 864-80259 FLOWMETER

PRESSURE TRANSDUCER PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE N64-31103 FTD-TT-63-849/1&2

PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSCILLOGRAPH NA4-31105

PRESSURE-VOLUME DIAGRAM /BIOL/ BARCMETRIC PRESSURE EFFECT ON MAXIMUM PRESSURE-VOLUME RELATIONSHIP OF HUMAN RESPIRATORY SYSTEM A64-22059

PRESSURE-VOLUME DIAGRAM TO EXPLAIN MAINTENANCE OF NORMAL BREATHING RHYTHM DURING POSITIVE PRESSURE 464-80057

MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM SAM-TDR-64-21 N64-25338

PRESSURIZATION CF PRESSURIZED CABIN

CF PRESSURIZED SUIT
EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING
FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT AMRL-TDR-63-82

PRESSURIZED CABIN

CF AIRCRAFT CABIN
SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING N64-11696 SPACE FLIGHT

PRESSURIZED SUIT

SA SPACE SUIT
CF FLIGHT CLOTHING
PHYSIOLOGICAL FACTORS IN THE TRAINING OF AIRCREM
IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS A64-13512

PROJECT APOLLO SPACE SUIT AND LIFE SUPPORT EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL INPUT AND SOURCES A64-18257

PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE AND EFFICIENCY OF WORK IN NORMAL AND REDUCED TRACTION ENVIRONMENTS A64-22815 THERMAL RESPONSE OF HUMAN SUBJECT IN FULL PRESSURE SUIT UNDER ARCTIC FIELD CONDITIONS

A64-25542

PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT LOCPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL

CARDICVASCULAR RESPONSE TO PASSIVE TILTING AT NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-BC142

PULMONARY PRESSURE CHANGES CURING EXPLOSIVE DECCMPRESSION IN SUBJECTS WEARING A FRENCH HIGH-A64-80282

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT, HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN A64-80688

MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS UNCER ZERC AND LUNAR GRAVITY CONDITIONS

A64-80837

THERMAL RESPONSE OF SUBJECT WEARING FULL PRESSURE SUIT DURING EXERCISE IN ARCTIC ENVIRONMENT

N64-17958

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS CF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TER-63-59

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS SAF-TER-64-13

RRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL

FTD-TT-62-1424/18384

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION FTC-TT-64-134/18284

-20 DYNA-SCAR FULL PRESSURE SUIT ASSEMBLY AMRL-TER-64-27 N64-26905

FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH AND WITHOUT GLOVES AMRL-TER-64-41

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION

CONDITIONS AMRL-TCR-64-36 N64-28565

PREVENTION

S ACCIDENT PREVENTION S FIRE PREVENTION

PRETECTIVE AND PREVENTIVE ASPECTS IN HEARING LOSS DUE TO HIGH INTENSITY NOISE EXPOSURE IN MILITARY 464-R056R

TOXICITY OF RED NITRIC FUMING ACID, DIMETHYL HYDRAZINE, M-3 PROPELLANT, NITROGEN PERDXIDE, ETHYLENE OXIDE, AND PREVENTIVE MEASURES AND A64-80887

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISH GLASS REPT.-2 N64-28581

PROBABILITY

SA TRANSITION PROBABILITY PROBABILITY AND UTILITY PROBLEMS ESD-TDR-63-622

PROBABILITY DISTRIBUTION

CPERATOR DECISION PERFORMANCE COMPARED FOR PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF OBJECT LOCATION

PROBABILITY THEORY

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY JPRS-26839 N64-33010 PROBE

CF METEOROLOGICAL PROBE CF SPACE PROBE RADIOISCTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318

PROBLEM SOLVING

EVOKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM SOLVING A64-81135

S STOCHASTIC PROCESS

PRODUCT DEVELOPMENT MANAGEMENT PLANNING

PROFICIENCY MEASUREMENT

PRACTICE AND EXPOSURE TIMES EFFECT ON DIAL READING, COMPARING CIRCULAR AND LINEAR SCALES FOR ACCURACY

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL AD-448362 N64-32813

PROGRAM

COMPUTER PROGRAM

NASA PROGRAM System for Nuclear Auxiliary Power /SNAP/ Program

TEST PROGRAM

PROGRAMMING SA COMPUTER PROGRAMMING CF CODING

CF LINEAR PROGRAMMING PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM

ESD-TDR-63-608

N64-12319

PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR PSYCHOLOGICAL RESEARCH ESD-TDR-63-353

CONTROL SYSTEMS, CODING, PROGRAMMING, AND COMPUTERS IN CYBERNETICS

JPRS-23700

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING **PSYCHOLOGY** JPRS-27166

N64-33485

PROJECT

APOLLO PROJECT GEMINI PROJECT

MERCURY PROJECT

PROMETHIUM

DEGREE OF RETENTION IN MINIATURE SWINE OF INGESTED AND INTRAVENOUSLY INJECTED RADIONUCLIDES USED IN SNAP /SYSTEM FOR NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

PROPAGATION VELOCITY

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS -DYNAMICS OF ACUTE RADIATION SICKNESS JPRS-21775 N64-10206

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES

N64-30393

PROPELLANT

CF FUEL CF LIQUID PROPELLANT CF SOLID PROPELLANT

CF STORABLE PROPELLANT

TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR TITAN II A64-80273

PROPELLANT GRAIN

S SOLID PROPELLANT

PROPELLANT STORAGE

CREDIBLE CATASTROPHIC EVENTUALITIES FROM

PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND WEATHER CONTROL NASA-CR-58145 N64-30504

CHEMICAL PROPERTY ELECTRIC PROPERTY OPTICAL PROPERTY

PHYSICAL PROPERTY THERMODYNAMIC PROPERTY

PROPIONIC ACID

INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411

PROPULSION SYSTEM S NUCLEAR PROPULSION

PROSTATE GLAND

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND, PROSTATE GLAND, AND WHITE BLOOD CELL

464-80566

PROSTHETICS

UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING N64-33689 REPT.-64-30

PROTECTION

SA ACCELERATION PROTECTION SA METEOROID PROTECTION SA THERMAL PROTECTION SA VIBRATION PROTECTION DECOMPRESSION TESTS FOR 8-58 ESCAPE CAPSULE SYSTEM

A64-80331

ADAPTATION TO AND PROTECTION OF MAN FROM VARIOUS NOISE LEVELS A64-80436

RADIATION HAZARD AND PROTECTION DURING MANNED A64-80526 SPACE FLIGHT

PROTECTIVE AND PREVENTIVE ASPECTS IN HEARING LOSS DUE TO HIGH INTENSITY NOISE EXPOSURE IN MILITARY A64-80568

FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

464-80729

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT A64-80868 AND PROTECTION OF SPACECREW

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND 464-80911 PROBLEMS OF PROTECTION

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING A64-80925 VISUAL STIMULI

HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS RELATED TO PROTECTION UNDER FIRST GENEVA 464-81049 CONVENTION

COMPARISON OF METHODS FOR EVALUATING PROTECTIVE A64-81322

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461

HEALTH PROTECTION DEVELOPMENTS IN USSR N64-22728 JPRS-24840

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS FTD-TT-62-1548/16264 N64-2346 N64-23463

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES FPRC/MEMO-201

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE, PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT FTD-TT-63-420 182 N64-298 N64-29857 PROTECTIVE CLOTHING CF FLIGHT CLOTHING CF SPACE SUIT

HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS

A64-13522

PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS RELATED TO SKIN AND RECTAL TEMPERATURES

A64-80179

HEAT PROTECTIVE CLOTHING

A64-80317

RADIAL VENTILATED GARMENT FOR USE IN TEMPERATURES A64-80875 UP TO 200 DEG CENTIGRADE

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459

HAZARD TO PERSONNEL WEARING TORN PROTECTIVE CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET **PROPELLANTS** AD-431540 N64-21673

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS

N64-28565 AMRL-TDR-64-36

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING AMRL-TDR-64-66 N64-31842

PROTEIN

CF AVIDIN CF CHLOROPHYLL CF ENZYME CF HEMOGLOBIN

CF PEPTIDE CE SERUM

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT A64-80985

ORIGIN OF LIFE ON EARTH BY INTERACTION OF PROTEIN AND NUCLEIC ACID MACROMOLECULES

A64-81126

DEGREE OF ACTOMYOSIN VISCOSITY IN MUSCLE CONTRACTION IN HYPOXIA IN RAT 464-81268

CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN PROTEIN RICH BIOMASSES N64-10476

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS

N64-10854

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES N64-11346 JPRS-18760

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN N64-12511

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY N64-12571

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES N64-12777 OF BLOOD SOLUTIONS

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE N64-12778 RADIATION SICKNESS

REACTION OF IRRADIATED PROTEIN RADICALS WITH N64-12897 RADICAL-REACTION INHIBITORS

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION N64-13693 EFFECT ON ACTOMYOSIN

PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN

	N64-15213	ORIGINS OF AMINO ACIDS AND PROTEINS - MC	LECULAR N64-27797
PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORT FUNCTIONING AD-430174	TEX N64-15955	COMPILATION OF ARTICLES ON MEDICINE - R SICKNESS, URANIUM POISONING, PROTEIN ST	BILITY IN
ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMING AND PROTEIN TISSUES	D ACIDS N64-16903	BLOOD, RADIOSENSITIVITY, AND RADIATION T JPRS-26216	N64-30241
NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AN ABILITY TO FIX CARBON DIOXIDE OF PLANT ITS	ND	CHANGES IN FRACTIONAL COMPOSITION & COLL STABILITY OF SERUM PROTEINS IN RABBIT BL RADIATION SICKNESS	.01DAL .00D DURING .N64-30243
CULTURES	N64-17864	PROTEIN EXCHANGE IN NERVOUS SYSTEM JPRS-26846	N64-32747
PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PRO DURING EXCITATION OF NERVOUS ACTIVITY BY (JPRS-24119		ROTEIN METABOLISM TRYPTOPHAN-RICH PREALBUMIN EXCRETION AFT STRENUOUS EXERCISE	ER A64-80006
ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC RESONANCE PARAMAGNETIC	GNETIC D Gamma N64-18138	ACCLIMATIZATION TO CARBON DIOXIDE AND EF ACID-BASE BALANCE, BLOOD, URINE ELECTROL NITROGEN RETENTION, AND BODY WEIGHT	
			MU4-00232
MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RAD IN PROTEIN MACROMOLECULE JPRS-23991	DICALS N64-18318	EFFECT OF PROLONGED INACTIVITY WITH AND BODY TILT ON WORK CAPACITY, NITROGEN AND BALANCE, AND RELEVANCE TO WEIGHTLESSNESS	CALCIUM
RIBONUCLEIC ACID IN PROTEIN SYNTHESIS			A64-80820
	N64-18330	PROTEIN AND LIPID CHANGES OF BLOOD SERUM DURING NORMAL AGING IN MAN	A64-81070
EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESOXYRIBONUCLEIC ACID AND PROTEINS	F	URINARY CAST FORMATION OF TH-MUCOPROTEIN	
	164-18412	CREATININE EXCRETION DURING EXERCISE	A64-81318
BIOPHYSICS OF AMINO ACIDS & PROTEINS JPRS-24046	N64-18517	BUYETCAL EVERCICE AND FEFFCE ON DUCOD CO	
CORRELATION OF AMINO ACID RADICALS IN PROT	_	PHYSICAL EXERCISE AND EFFECT ON BLOOD SE PROTEIN FRACTIONS IN ELDERLY PERSONS	A64-81332
MOLECULES N64-18518			
ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF ACID & PROTEIN UNDER ULTRAVIOLET LIGHT		PROTEIN METABOLISM IN RABBITS DURING ACU RADIATION SICKNESS	N64-12779
RESTORATION OF BLACKA DROVETS CRACKERS	164-18519	PROTEIN METABOLISM IN DOGS GIVEN TREATME ACUTE RADIATION SICKNESS	NT FOR N64-12780
RESTORATION OF PLASMA PROTEIN FRACTIONS AF BLOOD LOSS & INFUSION WITH POLYGLUCIN N	TER 164-18521	EFFECT OF COLD ON PROTEIN METABOLISM IN TN-62-11	RATS N64-13830
PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION	164-18522	ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC A TRANSAMINASE BY ALBUMIN METABOLISM DUE TO DEFICIENCY - BIOCHEMISTRY	
AMINO ACID COMPOSITION OF PROTEINS	PR 164-18524	OTEINOID AMINO ACID COMPOSITIONS OF PROTEINOIDS	
POLYMERIZATION OF AMINO ACIDS TO GIVE PROT	EINS AND		N64-12944
FORMED MICROPARTICLES N	164-19151	DYNAMIC PHENDMENA IN MICROSPHERES FROM TO PROTEINOID	HERMAL N64-19825
EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECT RADIATION SICKNESS, AND GAMMA RADIATION EF VITAMIN CONTENT OF RAT LIVER AND BRAIN	ION FROM FECT ON	MORPHOLOGY AND CHEMISTRY OF MICROSPHERES	
	164-22363	NASA-TH-X-51514	N64-22772
DETECTING PROTEINS IN TRACE AMOUNTS BY J-B		BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS ACID AND PROTEINOID STUDIES	S - AMINO
	64-22780	NASA-CR-50483	N64-22775
DETECTION OF PROTEIN IN TRACE AMOUNTS BY J ANALYSIS NASA-CR-56522	-BAND PR 64-22782	OTOBIOLOGY MOLECULAR EVOLUTION IN PROTOBIOLOGICAL S' CATALYSTS AND CATALYTIC ACTIVITY IN INTE	YSTEMS -
ELECTROPHORESIS CONCENTRATION OF SEPARATED		SYSTEMS FORMED DURING SYNTHESIS OF LOW MO HEIGHT ORGANIC COMPOUNDS BL-86	N64-22781
INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, S LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION	ERUM	MOLECULAR EVOLUTION IN PROTOBIOLOGICAL	rstems -
N	64-22860	PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOI WEIGHT ORGANIC SYNTHESIS NASA-CR-76531	
LIPID TRANSFER BETWEEN HIGH DENSITY AND VEI DENSITY LIPOPROTEINS		OTON CF PROTON IRRADIATION	N64-22792
CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTS BLUE-GREEN ALGAE	RY OF	RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS	
	64-23296	FTD-TT-63-1046/164	N64-25455
MICROBIOLOGICAL DEWAXING PROCESS YIELDING REVITAMIN CONCENTRATES		LINEAR ENERGY TRANSFER SPECTRUM OF PROTOI ON MERCURY MISSION MA-9	N EXPOSURE
NA SA-TT-F-233	64-26836	NASA-CR-58948	N64-31553

PROTON IRRADIATION SUBJECT INDEX

PROTON IRRADIATION
ENDURANCE VARIATIONS IN MICE SUBJECTED TO
ACCELERATION, X-RAY AND PROTON IRRADIATION
A64-27273

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS JPRS-22120 N64-11273

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED
MICE
N64-15203

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM

N64-15204

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS
ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF
APPEARANCE OF TUMORS IN RATS
FTD-TT-63-1049/18284 N64-19220

BIOLOGICAL EFFECTS OF HIGH ENERGY PROTON IRRADIATION OF HUMANS AND OTHER ANIMALS NASA-CR-5887 N64-33195

PSEUDOMONA

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE
AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF
CHLOROPSEUDOMONAS ETHYLICUM
N64-23433

PSYCHIATRY

SA MILITARY PSYCHIATRY
SA SOCIAL PSYCHIATRY
FEAR OF FLYING SYNDROME - REAPPRAISAL AND
PROGNOSIS
A64-80181

ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES

JPRS-23446 N64-15914

PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL
REFERRED FOR PSYCHIATRIC EVALUATION
PRI-TDR-63-23 N64-18785

PSYCHOACOUSTICS

CF AUDITORY SIGNAL
NOISE RATING SCALES FOR EVALUATION OF INFLIGHT
AIRCRAFT NOISE A64-1299

EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS
OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF
SIGNAL SOURCE LOCATION A64-19516

INTERCRANIAL PERCEPTION OF LATERAL POSITION OF BINAURAL TONE SOUND IMAGES IN PRESENCE OF INTERAURAL TIME DELAY AND AMPLITUDE DIFFERENCE A64-19517

HUMAN SENSORY DISCRIMINABILITY MEASURED ON BASIS OF UNBIASED WORD INTELLIGIBILITY TESTS, NOTING HIGHER VALUES FOR EXPECTED WORDS THAN FOR UNEXPECTED WORDS

A64-1951

DISTANCE PERCEPTION OF TWO AUDITORY SIGNALS, ONE EMITTED FROM HEADPHONE AND OTHER FROM NEARBY LOUDSPEAKER A64-25826

LOUDNESS FUNCTION OF 1000 CPS TONE IN PRESENCE OF MASKING NOISE A64-81166

CONSISTENCY OF AUDITORY DETECTION JUDGMENTS
A64-81203

EAR AS FREQUENCY ANALYZER A64-81235

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION NAVTRADEVCEN-789-2 N64-26892

PSYCHOLOGICAL EFFECT
EVALUATION OF PSYCHOLOGICAL ASPECTS OF EXTENDED
MANNED SPACE FLIGHT
A64-10114

PSYCHOLOGICAL AND PHYSICAL CRITERIA RECOMMENDED FOR SELECTION OF ASTRONAUTS A64-11427

HUMAN TOLERANCE TO CONFINEMENT AS RELATED TO PERSONALITY TRAITS INVESTIGATED IN SELECTION OF ASTRONAUTS A64-11434 SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY SIMULATION METHODS AND BY ACTUAL METHODS WITH RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON SPACE-ORIENTATION FUNCTION OF THE LABYRINTH

PSYCHOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT,
DISCUSSING ASTRONAUT ISOLATION AND CREW MEMBER
COOPERATION A64-11442

HUMAN STRESS MODEL, VIEWING ORGANISM AS SYSTEM WITH ENERGY AND IMPORMATION INPUTS AND OUTPUTS, PROVIDING PSYCHOLOGICAL AND PSCHOPHYSIOLOGICAL INDICES OF STRESS

A64-12975

PSYCHOLOGICAL EFFECTS OF SUBMARINE ENVIRONMENT ON HUMAN BEHAVIOR AND ADJUSTMENT POTENTIALITY OF PERSONNEL FOR EXTENDED SUBMERGED DUTY

A64-12977

HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS A64-22062

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN
A64-25574

VEGETATIVE AND PSYCHIC RESPONSE EFFECTS ON HUMAN TOLERANCE TO WEIGHTLESSNESS A64-25582

PHYSIOLOGIC AND PSYCHOLOGIC EFFECTS OF SUBGRAVITY
AND WEIGHTLESSNESS A64-80126

DISPOSAL OF DEAD ASTRONAUT IN SPACE

A64-80197

PATHOLOGICAL AND PSYCHOLOGICAL EFFECTS OF WHIPLASH INJURY A64-80233

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF ACCELERATION STRESS IN SPACEFLIGHT - A REVIEW A64-80477

BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATION OF SPACE FLIGHT A64-80554

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

REVIEW OF PSYCHOLOGICAL EFFECTS OF HYPOXIA

A64-81146

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA SLOW ROTATING ROOM A64-81324

BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR JPRS-18315 N64-10756

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077 N64-138

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-1451

PHARMACOLOGICAL PREPARATIONS HAVING PSYCHOLOGICAL EFFECTS N64-19491

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS FTD-TT-63-761/162 N64-29277

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES RADC-TDR-64-266 N64-31695

PSYCHOLOGICAL FACTOR
ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING
CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS

ACCIDENT PRONENESS AND INDIVIDUAL VARIATION IN

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF FOOD REQUIREMENTS IN SPACE A64-80644

PSYCHOLOGICAL TESTING
EMOTIONAL INSTABILITY AND SUSCEPTIBILITY TO MOTION
SICKNESS MEASURED BY PSYCHOLOGICAL TESTS,
INCLUDING THE RORSCHACH
A64-10249

TRUE AND FALSE KNOWLEDGE OF RESULTS EFFECT ON DETECTING BRIEF PAUSES IN MOVEMENT OF CLOCK HAND A64-25479

VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX
A64-80069

PSYCHOLOGICAL CORRELATES OF BIODYNAMIC STRESS DESCRIPTION OF SIX MEN SUSTAINING OVER 500
ACCUMULATED G A64-B0095

RORSCHACH PERFORMANCE AND INTELLECTUAL FUNCTIONING IN AGED INDIVIDUALS A64-80128

NONDEPRIVATION FACTORS IN PRODUCTION OF SENSORY DEPRIVATION EFFECTS- PSYCHOLOGY OF PANIC BUTTON A64-80137

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK A64-80150

MOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE SUBSTITUTION AND MIRROR DRAWING

A64-80152

AEROMEDICAL SELECTION STANDARDS OF NATO NATIONS FOR AIRCREWS REEVALUATED A64-B0269

STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES A64-80361

RISK-TAKING BEHAVIOR EVALUATED AS UNITARY
DIMENSION OF PERSONALITY A64-80447

PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE

MEASUREMENT OF STRESS INTENSITY
A64-80711

TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE REACTIONS TO D-AMPHETAMINE AND PHENOBARBITAL A64-80780

BUTTON-PRESSING FOR TIME-OFF REWARD DURING SENSORY DEPRIVATION RELATED TO SUBJECTIVE RATING OF WELL-BEING A64-81144

THREE-WAY FACTOR ANALYSIS OF MULTITRAITMULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL
TEST RESULTS
AD-600302 N64-29659

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE AD-607325 N64-33507

PSYCHOLOGY /GEN/

RISK-TAKING BEHAVIOR OF INDIVIDUALS AND GROUPS RELATED TO CERTAIN PERSONALITY TRAITS

A64-80211

DECISION-MAKING PROCESSES CONSIDERED WITHIN DIFFERENT THEORETICAL FRAMEWORKS

A64-80380

RISK-TAKING BEHAVIOR EVALUATED AS UNITARY DIMENSION OF PERSONALITY A64-80447

SENSORY DEPRIVATION AND BUTTON-PRESSING FOR TIME-OFF REWARD A64-80574

MOTOR SKILLS BIBLIOGRAPHY A64-81138

BIBLIOGRAPHY OF AUDITORY AND VISUAL PERCEPTION

A64-81149

DECISION-MAKING UNDER RISK - THEORETICAL MODEL CONSTRUCTED IN RISK TAKING SITUATION

A64-81301

OUTLINE OF SOVIET LITERATURE ON HUMAN
ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772
N64-10505

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION JPRS-18719 N64-10786

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING -PSYCHOLOGY JPRS-21976 N64-10852

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS

JPRS-22300 N64-11872

CHARACTERIZATION OF VITAL MANIFESTATIONS OF TEMPERAMENT
JPRS-22405 N64-12009

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE FLIGHT AMRL-TDR-63-81 N64-1

AMRL-TDR-63-81 N64-12213
VISUAL PERCEPTION STUDIES & PSYCHOLOGY

JPRS-19615 N64-12504

SPACE PSYCHOLOGY FTD-MT-63-68/18384 N64-14375

PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR PSYCHOLOGICAL RESEARCH ESD-TDR-63-353 N64-14469

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY JPRS-23370 N64-15417

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS AMRL-TDR-63-122 N64-15518

PSYCHOPATHOLOGICAL AND BIOCHEMICAL EXPERIMENTS ON PSYCHOLOGICAL EFFECT PRODUCED BY ANTICHOLINERGICS JPRS-23296 N64-15622

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE NADC-MA-6328 N64-15755

ENGINEERING PSYCHOLOGY
JPRS-23448

JPRS-23448

N64-16667

PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION AMRL-TDR-63-94 N64-16805

SELECTION OF SPACE CREWS FOR EXTENDED
JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853 N64-17536

PSYCHOLOGY - TAXONOMY OF LEARNING TASK
CHARACTERISTICS
AMRL-TDR-64-2
N64-19815

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL NADC-MA-6321 N64-20329

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS

N64-22437

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY AD-600804 N64-22515

EMPIRICAL STUDY OF HUMAN BELIEFS
ESD-TDR-64-238 N64-22567

ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION
BETWEEN TWO STIMULI BY FEMALE HOODED RATS
NADC-ML-6404
N64-22719

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

N64-23740

INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION -AD-436402

N64-24234

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT N64-25167

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX JPRS-26060

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL N64-30321 JPRS-26014

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS N64-30323

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PRCCESSES AND PROBLEM SOLVING N64-30324

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY N64-33C10 JPRS-26839

PSYCHOMOTOR PERFORMANCE

CF REACTION TIME TRANSFER OF TRAINING FROM SIMULATED TO REAL CONTROL SITUATION A64-12933

REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR VISUAL PURSUIT A64-12934

ACCELERATION STRESS ON HUMAN BEHAVIOR AND PHYSICLOGY, NOTING PSYCHOMOTOR PERFORMANCE, MENTAL ABILITIES AND EMOTIONAL RESPONSE

WEIGHTLESSNESS WITH RESPECT TO ORIENTATION, PSYCHOMOTOR PERFORMANCE AND PHYSIOLOGICAL FUNCTION A64-12982

ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS ON A64-13999 HUMAN PERFORMANCE

HUMAN TRACKING PERFORMANCE UNDER TRANSVERSE ACCELERATION 464-14013

HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION, EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES A64-23188

BLCCD-ALCCHOL CONCENTRATION IN SIMULATED DAY AND NIGHT CRIVING AND ITS EFFECT ON VISION A64-80009

NOISE EFFECTS ON DISCRIMINATION REACTION TIME A64-80C10

REACTION TIME DURING RESPIRATORY CYCLE

A64-80012

ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDICVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS A64-80125

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS PHS-G-GM-C5385 A64-80129

INCREASED HEART RATE AFFECTING PSYCHOMOTOR PERFORMANCE A64-80138

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES A64-80147

NOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE

SUBSTITUTION AND MIRROR DRAWING

A64-80152

BEHAVIORAL EFFECTS OF RED AND GREEN SURROUNDINGS A64-80191

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-80323

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR IN JAVA MONKEY

SENSORY DEPRIVATION STUDIES CONDUCTED AT PRINCETON REVIEWED IN DETAIL 464-80378

SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF EFFECTS ON HUMAN AND ANIMAL BEHAVIOR A64-80382

AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL **ASPECTS** A64-80531

AUTONOMIC LEVELS AND LABILITY - PERFORMANCE TIME ON PERCEPTUAL AND SENSORIMOTOR TASKS A64-80585

MOTOR STYLE AS FUNCTION OF HANDEDNESS, SPEED CONTROL, AND TREMOR CONTROL A64 A64-80707

PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

TRACKING APPARATUS FOR DETECTION OF SLIGHT IMPAIRMENT OF ATTENTION AND MOTOR PERFORMANCE A64-80709

COMPARISON OF SUBJECTIVE AND OBJECTIVE DATA PERTAINING TO VIGILANCE TESTS, PSYCHOMOTOR PERFORMANCE, AND NOISE EFFECTS A64-80723

PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT A64-80760

BEHAVIOR IMPAIRMENT DUE TO STRESS - EXPERIMENT IN LONG-TERM PERFORMANCE OF 21 HOURS A64-80798

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

CARDIOVASCULAR HEALTH AND AGING IN RELATION TO PSYCHOMOTOR PERFORMANCE IN HUMAN A64-80971

MOTOR SKILL ACQUISITION AFFECTED BY DELAY OF KNOWLEDGE OF RESULTS A64-81140

PSYCHOMOTOR TASK PERFORMANCE WITH PERFECT RECALL AFTER FIFTY WEEKS OF NO PRACTICE A64-81145

ENGINEERING PSYCHOLOGY AND HUMAN PERFORMANCE A64-81180

PERFORMANCE OF MANUAL POSITIONING TASK AS FUNCTION OF GUIDANCE, RESTRICTION, AND KNOWLEDGE OF RESULTS A64-81192

RETENTION OF SKILL AS FUNCTION OF DISPLAY/HAND MOVEMENT RATIC DURING TRAINING A64-8 A64-81218

PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE N64-13854 ARL-TDR-63-28

EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE NASA-TM-X-53011

PSYCHOPHYSICS CONTINUOUS AND QUANTAL THEORIES OF SENSORY DISCRIMINATION A64-12939

SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF A64-80013 INFORMATION THEORY

INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND PERCEIVED ABSOLUTE DISTANCE A64-80139

NOISE EFFECT ON DETECTION OF VISUAL SIGNALS
A64-80149

SIZE CONSTANCY - FUNCTIONAL RELATION BETWEEN
VISUALLY PERCEIVED SIZE AND DISTANCE

A64-B0190

r

BEHAVICRAL EFFECTS OF RED AND GREEN SURROUNDINGS A64-80191

VISUAL CONSTANCY DURING FORWARD AND BACKWARD MOVEMENT OF SUBJECTS A64-80288

PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MCDALITIES A64-80289

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
A64-80318

TIME DISCRIMINATION - AUDITORY AND VISUAL TIME JUDGMENT A64-80358

DECISION-MAKING PROCESSES CONSIDERED WITHIN DIFFERENT THEORETICAL FRAMEWORKS

A64-80380

MOTION PERCEPTION - STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, TIME, AND DISTANCE A64-804C2

DECISION-MAKING RELATED TO CERTAIN PERSONALITY VARIABLES A64-B0440

MOTION PERCEPTION - RELATION BETWEEN SUBJECTIVE VELOCITY, SPACE, AND TIME AS RELATED TO CORRESPONDING PHYSICAL VARIABLES

A64-8C464

WEBER FRACTION EXPLORED AS FUNCTION OF PHYSICAL OR PERCEIVED SENSORY INPUT A64-80472

JUDGMENT OF SLANT WITH CONSTANT OUTLINE
CONVERGENCE AND VARIABLE SURFACE TEXTURE GRADIENT
A64-80579

TRACKING RCTARY MOTION AFTEREFFECT WITH DIFFERENT ILLUMINATIONS OF INSPECTION AND TEST FIELDS

MONCCULAR SLANT PERCEPTION AND TEXTURE GRADIENT
CONCEPT A64-R07R1

PSYCHOPHYSICAL SCALES FOR KINESTHETIC WIDTH
MEASUREMENT A64-81089

CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS
PHENOMENA A64-81134

DISCRIMINANT FUNCTION AS MODEL FOR PERCEPTION
A64-81299

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES N64-10531

PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE ASC-TTCR-63-732 N64-14689

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHD-PHYSICS ESD-TDR-64-174 N64-18588

PSYCHOPHYSIOLOGY
CF NEUROPHYSIOLOGY

CF NEUROPHYSIOLOGY
SHCRT TERM PSYCHOTHERAPEUTIC TREATMENT OF AVIATORS
WITH PSYCHOGENIC PROBLEMS, AND SUBSEQUENT FLIGHT
STATUS
A64-10261

VALUE CF AERCSPACE MEDICAL RESEARCH TO CLINICAL MEDICINE ILLUSTRATED BY CONSIDERATION OF EFFECTS

OF ACCELERATION, WEIGHTLESSNESS, RADIATION AND SENSORIAL DEPRIVATIONS A64-11430

SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY SIMULATION METHODS AND BY ACTUAL METHODS WITH RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON SPACE-ORIENTATION FUNCTION OF THE LABYRINTH

#664-11435

FINDINGS IN NEUROPHYSIOLOGY, PSYCHOLOGY AND INSTRUMENTATION THAT SUGGEST INNOVATIONS IN MONITORING OF ASTRONAUT BRAIN AAS PAPER 62-11

NEUROPHYSIOLOGICAL INFORMATION PROCESSING AS IT RELATES TO SENSORY COMMUNICATION

A64-12417

HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK COMMITMENT STRESS A64-12978

MEASUREMENT OF EMOTIONAL REACTIONS, INDIVIDUAL PERFORMANCE AND GROUP EFFECTIVENESS OF SUBJECTS ENGENDERED BY ISOLATION CONFINEMENT AND ENVIRONMENTAL STRESS IN THE ANTARCTIC

A64-13515

TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE A64-22057

PSYCHOLOGICAL AND PHYSICLOGICAL ALTERATION OF LACK OF VISUAL, AUDITORY AND TACTILE STIMULATION IN SPACE FLIGHT A64-23766

PSYCHOPHYSICLOGICAL EFFECTS OF WEIGHTLESSNESS, VIGILANCE AND SENSORY DEPRIVATION SIMULATED BY IMMERSION EXPERIMENTS A64-24400

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN
A64-25574

ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT ENVIRONMENT WITH RESPECT TO WORK AND REST CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT TASKS A64-25591

SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF INFORMATION THEORY A64-80013

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES A64-B0147

FEAR OF FLYING SYNDROME - REAPPRAISAL AND PROGNOSIS

SENSORY DEPRIVATION STUDY - REPORT ON KAYAK-ANGST AMONG ESKIMO OF WEST GREENLAND A64-80215

NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN AIRCRAFT ACCIDENTS A64-80243

SENSORY-PHYSIOLOGICAL PROBLEMS IN SPACE FLIGHT ARISING FROM STIMULATION OF VESTIBULAR APPARATUS A64-80351

PERCEPTUAL MECHANISMS AIMED AT ERROR-CORRECTION
A64-80471

PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS A64-80546

EMOTIONAL STRESSES AND FUNCTIONAL PROCESSES IN ORGANISM A64-80640

PHYSICAL AND PSYCHOPHYSIOLOGICAL ASPECTS OF NOISE AS RELATED TO VIGILANCE A64-80719

LEADERSHIP AS RELATED TO PSYCHOPHYSIOLOGICAL ACTIVATION OF GROUP MEMBERS DURING CONFINEMENT

A64-81205

PSYCHOPHARMACOLOGICAL CCMPOUNDS - CLASSIFICATION, SYNCHYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT JPRS-22042 N64-11269

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVICR
NACC-MA-6305 N64-15753

PSYCHOPHYSICLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING

N64-25158

ELECTRODE FOR RECORDING OF PSYCHOPHYSIGLOGICAL AND PHYSICLOGICAL PHENOMENA IN HUMANS NASA-CR-56205 N64-25767

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL THEORY

N64-27095

DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION AD-447C92 N64-33690

PULMONARY CIRCULATION
ATPOSPHERIC NITROGENS ROLE IN BIOLOGICAL PROCESSES
WITH PARTICULAR REFERENCE TO PHYSIOLOGICAL
RESPIRATION
A64-20648

PULMONARY VENTILATION ADJUSTMENT TO HIGH ALTITUDE EXERCISE A64-23256

BLCOD CIRCULATION CHANGES IN LUNGS DURING EXERCISE A64-80082

PRESSURE BREATHING PATTERN VARIATION AND ALVEOLAR ARTERIAL GRADIENTS IN DOGS A64-80106

PULMONARY CIRCULATION IN HIGH ALTITUDE NATIVES
A64-80183

PULMONARY CIRCULATION AND CARDIAC OUTPUT OF RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE HYPOXIA A64-80338

LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY NEGATIVE PRESSURE BREATHING OF 100 PER CENT OXYGEN IN DOG A64-80738

PULMONARY BLOOD FLOW DURING EXERCISE IN
COMPARISON TO RESPONSE TO HYPOXIA AND
AMINOPHYLLINE A64-80739

UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN
RADIOGRAPHIC STUDY OF EFFECT OF AGING ON
VENTRICULAR STROKE AND PULMONARY CIRCULATION
A64-B1C71

RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION AMRL-TDR-63-103/1/ N64-17926

DETERMINATION OF TEMPERATURE OF PULMONARY
CAPILLARY BLCCC N64-17932

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943

RULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION FPRC-1212 N64-22218

PULMONARY FUNCTION

RESPIRATORY VOLUME PER SECOND AND TIFFENEAU INDEX IN OVER 1000 PILOT CANDIDATES FOR SCREENING A64-24098

OXYGEN CONSUMPTION DURING DIFFERENT TYPES OF EXERCISE A64-80055

PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND RECUMBENT POSITION A64-80058

SPENTANEOUS PNEUMOTHORAX IN FLYING PERSONNEL - ITS ETIOLOGY, PATHOLOGY, DIAGNOSIS, AND TREATMENT

PRESSURE BREATHING PATTERN VARIATION AND ALVEOLAR ARTERIAL GRADIENTS IN DOGS A64-80106

RESPIRATORY FREQUENCY AND COMPLIANCE AT DIFFERENT LUNG VOLUMES A64-80108

ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND SEA LEVEL A64-80168

INSPIRED DXYGEN TENSION VARIATION AND ALVEOLAR-ARTERIAL DXYGEN TENSION DIFFERENCE IN SITTING AND SUPINE MALES AND FEMALES A64-80187

RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN A64-80312

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, DXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

A64-80624

PRESSURE VOLUME RELATIONSHIPS AT 30,000 FEET ALTITUDE AND AT GROUND LEVEL WHILE BREATHING PURE 0XYGEN A64-80630

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-8065

LUNG VOLUME, COMPLIANCE, AND ARTERIAL OXYGEN AND CARBON DIOXIDE TENSIONS DURING CONTROLLED VENTILATION OF DOGS WITH PURE OXYGEN

A64-80700

CARBON DIOXIDE EFFECT ON PULMONARY VASCULAR RESISTANCE A64-80701

AIRWAY RESISTANCE MEASURED WITH VOLUME DISPLACEMENT BODY PLETHYSMOGRAPH

A64-80702

PULMONARY FUNCTION, OXYGEN CONSUMPTION AND PULSE RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE A64-80728

VENTILATORY EXCHANGE RATIO DURING EXERCISE AS RELATED TO CARDIOPULMONARY FUNCTION AND METABOLIC ACIDOSIS A64-80737

ARTERIAL CARBON DIOXIDE TENSION - EFFECT ON FLOW RESISTANCE AND MECHANICS OF LUNG IN MAN DURING VOLUNTARY HYPERVENTILATION A64-80740

PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN BREATHING LOW CONCENTRATIONS OF OZONE

A64-80742

CALORIC EXPENDITURE DURING PHYSICAL EXERCISE AND RELATIONSHIP TO VENTILATION AND BODY WEIGHT

A64-B0877

DETERMINATION OF NITROGEN CONCENTRATION DURING BREATHING WITH MULTIPLE BREATH METHOD AND RELATION TO NORMAL PULMONARY VENTILATION

PERCENTAGE CARBON MONOXIDE ABSORPTION AND RELATION TO PULMONARY DIFFUSING CAPACITY

A64-80900

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /19,000 FEET/ ELEVATION IN HIMALAYAS

A64-80995

STATIC VOLUME-PRESSURE CHARACTERISTICS OF
RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN
RELATION TO MUSCLE TONUS
A64-81000

RELATIVE COMPLIANCES OF WELL AND POORLY VENTILATED SPACES IN NORMAL HUMAN LUNG A64-81013

LUNG CAPACITY AND RESPIRATION PATTERN IN WIND-INSTRUMENT PLAYER A64-81019

EFFECT OF INHALING COLD AIR ON PULMONARY VENTILATION IN MAN A64-81125

ULMONARY LESION

PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND DISULPHIDE GROUPS DUE TO HIGH PRESSURE DXYGEN BREATHING IN RATS A64-80073 DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT EXPOSED TO AIR SHOCK WAVES A64-81063

PULSE

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIDGRAPHY

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE RRCPAGATION VELOCITIES IN ARTERIES

PULSE COMPRESSION S CODING

PULSE RATE

SEASONAL VARIATIONS IN PULSE RATE DURING ERGOMETRIC WORK TEST OF SWEDISH AIR FORCE PILOTS A64-12991

POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER 464-12992

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY THROUGH PULSE WAVE VELOCITY MEASUREMENT AIAA PAPER 64-216 464-20483

TIME DISCRIMINATION RELATED TO BODY TEMPERATURE AND PULSE RATE IN HOT ENVIRONMENT

A64-80064

CARDICVASCULAR RESPONSE IN MAN TO HIGH AMBIENT TEMPERATURE AND HUMIDITY A64-80135

TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE REACTIONS TO D-AMPHETAMINE AND PHENOBARBITAL

MAXIMAL CXYGEN INTAKE PREDICTION STUDIED WITH RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE

ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK - INVESTIGATION OF CARDIDVASCULAR AND METABOLIC CORRELATES IN MAN

A64-81 088

A64-81309

PULSE RECORDER ATTACHMENT TO ELECTROCARDIDGRAPH FOR PULSE RECORDING IN HUMAN

PULSE TRANSMISSION SYSTEM

COMMUNICATION SYSTEM

PURIFICATION

STERILIZATION CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE A64-81 C37

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE JPRS-26056

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64~29033

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN SOURCE FOR CHLORELLA PYRENDIDOSA

A64-80945

PURSUIT TRACKING
SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR PERFORMANCE A64-12935

SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY A64-80604

TRACKING APPARATUS FOR DETECTION OF SLIGHT IMPAIRMENT OF ATTENTION AND MOTOR PERFORMANCE A64-80709

SUPPLEMENTARY FEEDBACK IN ROTARY PURSUIT TRACKING

RATE OF LEARNING ON PURSUIT ROTOR TASK AT CONSTANT

WORK-REST RATIO WITH VARYING WORK AND REST PERIODS

RECOVERY FROM DECREMENT AS FUNCTION OF WORK-REST A64-80904

LEARNING AND EFFECT ON PURSUIT TRACKING TASK WITH COMPLEX AND SIMPLE INPUT A64-81189

PURSUIT ROTOR PERFORMANCE WITH POSITIVE AND **NEGATIVE APPROVAL MOTIVATION** A64-81216

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879

PYRIDOXINE

LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL COMPONENT A64-81029

PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE POISONING IN RABBIT A64-8 A64-81052

RADIATION PROTECTIVE EFFECT OF PYRIDOXAL-5-PHOSPHATE IN RAT AND DOG A64-81092

PYRROLE

POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY

PYRUVATE

CARDIAC DUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990

PYRUVIC ACID

BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO CENTIMETER WAVES FOR 24 HOURS A64-80715

O

QUALITY

S FLYING QUALITY S HANDLING QUALITY

QUALITY CONTROL

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES N64-10531

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL AD-448362

QUANTITATIVE ANALYSIS

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI

SEMIAUTONATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK EUR-474.F

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA UCLA-12-523

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-330 N64-33019

QUANTUM NUMBER

S ANGULAR MOMENTUM

QUANTUM THEORY

FOVEAL ABSOLUTE VISUAL THRESHOLD FOR SHORT LIGHT FLASHES SUBTENDING SMALL AREA OF VISUAL FIELD A64-80123

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING AMRL-TDR-64-21 N64-19101 QUINONE

QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA
N64-19471

SEMIQUINONE FREE RADICALS IN SYSTEMS MCDELLING BICLOGICAL OXICATION N64-28036

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS
AFCRL-64-760 N64-33104

R

RABBIT

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE RELATED TO BODY POSITION IN RABBIT

A64-80040

ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA A64-80048

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON OTCLITH ORGANS OF RABBITS LYING IN LATERAL POSITION ON PARALLEL SWING A64-80244

ANOXIA INDUCED CHANGES IN METABOLITE CONTENT OF RABBIT LUNG A64-80246

NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY
PHASE A64-80257

HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX.

ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM IN RABBITS A64-80398

SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS
INTOXICATED WITH TETRAETHYL LEAD

A64-80404

HYPOXIA-INDUCED CHANGES IN ACTIVITY OF TRANSAMINASES IN ORGANS AND BLOOD OF RABBITS -CARBOHYDRATE METABOLISM A64-80409

NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN
FUNCTION, AND CARDIDVASCULAR SYSTEM IN DOG AND
RABBIT
A64-80559

ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLOOD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN A64-80651

HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT AFTER BENZENE POISONING A64-80670

BENZENE POISONING IN RABBIT AND CHANGES IN IMMUNIZATION AND TYPHOID ANTIBODY LEVEL A64-80671

....

BENZENE INTOXICATION AS RELATED TO ENZYME ACTIVITY IN RAT AND RABBIT A64-80720

SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND DOG EXPOSED TO PROLONGED VIBRATION

A64-80725

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE
ANESTHESIA AS RELATED TO BODY TEMPERATURE AND
SURVIVAL TIME OF RABBIT EXPOSED TO COLD

A64-80927

PARTIAL STATE OF WEIGHTLESSNESS, INDUCED IN RABBIT BY IMMERSION IN SODIUM CHLORIDE SOLUTION AND EFFECT ON BLOOD CIRCULATORY SYSTEM

A64-80961

SO2 ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS RELATED TO CONCENTRATION AND BREATHING PHASE

A64-80963

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,

TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON VESTIBULAR FUNCTION IN RABBIT A64-80981

NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND AROUSAL A64-81028

OPTICAL LENSES AND PROTECTION OF RABBIT EYE
AGAINST BALLISTIC MISSILES A64-81045

PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE POISONING IN RABBIT A64-81052

DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT EXPOSED TO AIR SHOCK WAVES A64-81063

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA A64-81073

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID
IN TETRAETHYL LEAD POISONING OF RABBITS
A64-81085

TOXIC EFFECT OF ISOPROPYL-BENZENE HYDROXIDE APPLIED TO SKIN OF RABBIT A64-81100

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF VERTIGO IN RABBIT A64-81123

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCORTICAL AREAS OF BRAIN IN RABBIT A64-81253

MECHANISM OF INTERACTION OF RESPIRATORY CENTERS
UNDER VARIOUS TYPES OF HYPOXIA IN RABBIT AND CAT
A64-81260

ROLE OF VESTIBULAR APPARATUS IN OPTOKINETIC
NYSTAGMUS IN RABBIT A64-81310

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGGEN IN NORMAL AND TUMOR-BEARING RATS UR-634 N64-10190

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY JPRS-22001 N64-10393

PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS
AEC-TR-5630 N64-10430

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION JPRS-18904 N64-1080

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION N64-12434

PROTEIN METABOLISM IN RABBITS DURING ACUTE
RADIATION SICKNESS N64-12779

PHYSIOLOGICAL RESPONSES OF RABBITS
FTD-TT-62-1642 N64-22168

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA N64-22853

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT JPRS-25599 N64-27318 SUBJECT INDEX RADIATION EFFECT

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC N64-32782

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A NEPALESE PILGRIM A64-80121

ADAPTATION OF PRIMITIVE MAN TO COLD STRESS IN VARIOUS GEOGRAPHICAL LOCATIONS A64-464-80425

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE 464-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN PALE

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

RADAR

RADIATION HAZARDS IN HIGH POWER RADAR

A64-80076

RADAR OBSERVATION ARY OBSERVATION
SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND
IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR

AMRL-TDR-64-40

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOCKING RADAR

AMRL-TDR-64-45

RADIANT HEATING

ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RADIANT HEATING OF TRUNK A64-80998

CF ALPHA RADIATION

CF ATMOSPHERIC RADIATION CF COSMIC RADIATION

CF ELECTROMAGNETIC RADIATION

CF ELECTRON RADIATION
CF GALACTIC RADIATION

CF GAMMA RADIATION

CF IONIZING RADIATION

IRRADIATION

CF MICROWAVE RADIATION

NUCLEAR RADIATION

SOLAR RADIATION SPACE RADIATION

CF THERMAL RADIATION
CF ULTRASONIC RADIATION
CF ULTRAVIOLET RADIATION

NATURAL RADIATION AS RELATED TO INNATE RADIOACTIVE LEVELS IN PLANTS AND ANIMALS A64-80497

THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY 1005-18432 N64-11044

RADIATION ABSORPTION

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE CN MARS NASA-CR-55655

RADIATION SHIELDING DEPENDENT ON DOSIMETRY OF FLARE-PRODUCED AND VAN ALLEN BELT PROTON BEAMS

A64-24397

RADIATION DOSES DUE TO VAN ALLEN BELTS, GALACTIC COSMIC RAYS AND SOLAR COSMIC RAYS FOR INTERPLANETARY FLIGHT

IONIZING RADIATION EFFECTS ON ASTRONAUT ORGANISMS. NOTING BIOLOGICAL PROTECTION AND CHARACTER OF RADIOBIOLOGICAL INJURIES

DOSIMETRY OF RADIATION FIELDS IN SPACE AND RELATION TO MANNED SPACEFLIGHT A64-80481

RADIOACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO BODY ORGANS N64-11736

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION N64-12434

INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA UCLA-518 N64-12898

LATENT IMAGE FADING IN RADIATION MONITORING FILMS DURING STORAGE BEFORE DEVELOPMENT AECL-1872

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM

N64-15204

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT AMRL-TDR-64-9 N64-18629

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION DOSAGES FTD-TT-63-1050/16264 N64-23437

RACIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATOPOIETIC SYSTEM

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, COUNT, ACTIVITY

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS NASA RP-245

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740 N64-27649

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT NASA-TN-D-1862 N64-28320

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH UR-649

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE UR-651

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY FTD-TT-63-923/162 N64-32662

RADIATION FEFECT

RADIATION EFFECTS ON BLOOD TISSUE DURING SPACE

RADIATION EFFECT CONT SUBJECT INDEX

X-RADIATION EFFECTS ON BLOOD CELL CYTOPLASM,
NOTING INCREASE IN DOSAGE AND DAMAGE WITH DURATION
OF EXPOSURE
A64-11438

LOW LEVEL RADIATION EFFECTS ON INTEGRATED HUMAN BEHAVIOR AND ORGAN SYSTEMS A64-12984

CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN TEMPERATURES A64-13516

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTOLOGICAL ORGANISMS

A64-13798

RADIOBIOLOGICAL PROBLEM OF EFFECT OF IONIZING RADIATION UPON A HUMAN ORGANISM, DURING ORBITAL AND SPACE MISSIONS A64-15629

PHYSIOLOGICAL RESPONSES OF MAN IN ORBIT, EMPHASIZING WEIGHTLESSNESS AND IONIZING RADIATION EFFECT A64-16313

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING
COSMIC RADIATION EFFECTS ON GENETIC
CHARACTERISTICS OF PLANT SEEDS, CELLS AND FRUIT
FILTES
A64-18630

NASA BIOSATELLITE PROGRAM TO STUDY PHYSIOLOGICAL, EVOLUTIONARY AND GENETIC EFFECTS OF WEIGHTLESS-NESS, RADIATION AND REMOVAL FROM EARTH ROTATION A64-18756

SUBRADIATION EFFECTS ON BIOLOGICAL OBJECTS
CONCERNING NATURAL RADIATION ENVIRONMENT
A64-20691

BIOLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B CELLS

A64-22813

HIGH ALTITUDE EFFECTS ON GROWTH AND EXISTENCE OF BACTERIA, NOTING SOLAR RADIATION EFFECT

A64-23255

SOLAR ULTRAVIOLET RADIATION EFFECTS ON MICROORGANISMS AND RELATION TO GERM TRANSPORTATION IN INTERPLANETARY SPACE A64-24973

BIOLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION METHODS A64-25578

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE

GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND

OCCURRENCE OF CROSSING OVER IN CHROMOSOMES OF MALE DROSOPHILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION A64-26813

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
STATES OF SPERMATOGENESIS
A64-27144

IONIZING RADIATION EFFECT ON STABILITY OF GENETIC INFORMATION STORAGE AND TRANSMISSION MECHANISMS IN TERMS OF CYBERNETICS A64-27587

RADIATION EFFECT ON ORGANISM OF MAMMALS.
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION A64-28414

SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE DRIGIN OF LIFE, CLOSED ECOLOGICAL SYSTEMS, EFFECTS

OF WEIGHTLESSNESS AND RADIATION, AND MEASURING INSTRUMENTS A64-80124

REVIEW OF STUDIES OF RADIATION EFFECTS ON ANIMALS AND PLANTS A64-80773

CENTIMETER WAVE RADIATION OF VARYING INTENSITY AND EFFECT ON PERIPHERAL BLOOD AND HEMATOPOIETIC SYSTEM A64-81211

BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009

EFFECT OF IONIZING RADIATION ON HEREDITARY
MOLECULAR STRUCTURES - BIBLIOGRAPHY
JPRS-21754 N64-10121

POTENTIAL CONTRIBUTIONS TO BIOLOGY FROM EXPERIMENTAL STUDIES IN SPACE - RADIATION EFFECT N64-10266

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-10327

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY JPRS-18045 N64-10453

EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM
JPRS-21472 N64-10596

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION JPRS-18904 N64-10807

EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES POST-BURNING CHANGES IN METABOLISM
JPRS-22022 N64-10856

RADIOLOGICAL MEDICAL ENCYCLOPEDIA
JPRS-18414

N64-10866

FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON NERVOUS SYSTEM N64-10934

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY
TEXTBOOK
JPRS-19278
N64-11066

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284 N64-11067

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT UCRL-11005 N64-11097

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION

JPRS-20317 N64-11136

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY JPRS-22107 N64-11272

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER ÍN DOGS
JPRS-22120 N64-11273

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES
JPRS-22121
N64-11274

IONIZING RADIATION EFFECT ON LIVER PROTEIN &
BIOELECTRIC CURRENT IN MUSCLES
JPRS-18760 N64-11346

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353

IONIZING & X-RAY RADIATION EFFECTS ON MICE GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355

PARENTAL GAMETES

IONIZING RADIATION EFFECT ON DEVELOPMENT OF

LEUKEMIA IN MAN NASA TT-F-9036 N64-27369 JPRS-22520 N64-12145 RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE EFFECTS DURING SPACE FLIGHTS N64-27631 RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT JPRS-22083 INDEX TID-3912 N64-28788 CYSTEAMING PROTECTIVE ACTION AGAINST RADIATION INJURY N64-13695 HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE KINETIC REGULARITIES OF PRIMARY REACTIONS AND NASA-CR-58526 CHEMICAL PROTECTION IN RADIATION DAMAGE SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED N64-16908 INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION. N64-18411 AND PATHOGENESIS OF RADIATION TUMORS IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FCCD - BOTANY JPRS-26532 N64-30613 JPRS-24187 N64-18968 RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE AND REGULATING MECHANISMS AND LIPOLYTIC ENZYME HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS INDUCTION BY CONNECTIVE TISSUE CELLS FTD-TT-64-329/16264 N64-32544 FTD-TT-63-1049/16264 N64-19220 BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS TID-3909 /SUPPL. 2/ N64-33138 ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND TID-3098/INDEX/ ULTRASTRUCTURE N64-33453 IONIZING RADIATION EFFECTS ON PERFORMANCE CAPABILITIES OF ASTRONAUTS - ANNOTATED RADIATION EFFECTS ON NUCLEIC ACIDS JPRS-27239 N64-33875 BIBLIOGRAPHY SRB-63-13 N64-23365 RADIATION EXPOSURE MICROMAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION
A64-BICLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744 464-25543 SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER RADIATION FIELD WITHIN SPACE VEHICLES UNDER INFLUENCE OF IONIZING RADIATION A64-80173 N64-23769 RADIATION EXPOSURE CONTROL METHODS AND BENEFICIAL USES OF RADIATION EFFECTS - POWER. RADIOACTIVE MATERIAL DOSAGES ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND JPRS-18522 N64-10575 TRACER TECHNOLOGY REIC MEMO-25 N64-24967 SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS UCD-472-109 N64-25111 RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS DOSIMETRY FOR RADIATION DAMAGE STUDIES NY0-10451 N64-12123 N64-25205 INFLUENCE OF RADIATION EXPOSURES ON PLANT GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND **EMPLOYEES** ANL-6688 N64-12132 MARHALS RADIATION AND CHEMICAL GENETIC EFFECTS AD-600960 N64-25308 N64-12701 EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES RADIATION N64-12784 RADIATION EFFECT ON SPERM MUTATION, YEAST CELL DAMAGES OF IONIZING RADIATION TO ORGANS OF MANMALS RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE N64-25313 JPRS-22083 N64-12793 X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND SAM-TDR-64-29 N64-25340 PERIPHERAL BLOOD ELEMENTS OF MONKEYS SAM-TDR-63-55 N64-13078 IONIZING RACIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF TISSUES RADIATION EXPOSURE IN MICE N64-13505 FTD-TT-63-661/162 N64-26725 CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION ORNL-3531 N64-27055 POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA RACIATION N64-15679 UCLA-12-529 ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY OF RAT FETUS AFTER IRRADIATION OF MORTALITY RATE FROM RADIATION SICKNESS

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES

WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION

WITH POLONIUM N64-15680 N64-15992 JPRS-23499 CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES OF RADIATION EXPOSURE 080-614 N64-16551 AD-432125 EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMCGRAM OF MOUSE AFTER SEVERAL EXPOSURES SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY N64-20485 N64-18409 NY0-2762 SAFETY MEASURES AGAINST RADIATION HAZARD DURING RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE VOSTOK III AND IV SPACE FLIGHTS NASA-TT-F-8823 JPRS-26921 N64-31556 N64-22936 ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-323C8 N64-23638 X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME RADIATION HAZARD ENERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY ACTIVITY IN LIVER OF YOUNG RATS TRAPPED RADIATION AS HAZARDS TO MANNED SPACE SAM-TDR-64-29 N64-25340 464-11457 SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE SOLAR FLARE RADIATION HAZARDS, DISCUSSING PARTICLE FLUX CALCULATIONS AND RADIATION DOSAGE UNDER VARIOUS SHIELDING THICKNESSES A64-13477 MATERIALS AD-438147 N64-27263 MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT OF RADIATION ACCIDENTS DOSAGE LEVELS AND BIOLOGICAL EFFECT OF RADIATION HAZARDS FOR MANNED SPACE FLIGHT JPRS-26021 N64-28439 464-19133 PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS, RADIATION, METEORITE IMPACT, ARTIFICIAL ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE BIOLOGICAL EFFECT OF LASER RADIATION ON ANIMAL A64-20638 FTD-TT-64-203/1 N64-31073 THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE -RADIATION HAZARD IN SPACE FLIGHT PERSONNEL INCLUDING THOSE IN TECHNOLOGY A64-22814 NASA-CR-59266 IONIZING RADIATION OPERATIONAL HAZARDS OF A64-25786 SUPERSONIC TRANSPORT RADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND NEAR BEAM ZONES NASA-TT-F-9136 RADIATION HAZARDS IN HIGH POWER RADAR A64-80076 RADIATION MEASUREMENT
RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION
LEVEL WITH GEOLOGY SEALED ENVIRONMENTS IN RELATION TO HEALTH AND A64-80265 N64-10407 RACIATION HAZARD AND PROTECTION DURING MANNED CEX-6164 A64-80526 MEASUREMENT OF RADIATION COSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS MANNED SPACE FLIGHT PROBLEMS AND POSSIBILITY OF N64-21642 LIFE ON CTHER PLANETS PROBLEMS OF RADIATION DOSIMETRY IN X-RAY POSSIBLE HAZARD OF GALACTIC AND SOLAR RADIATION BETWEEN 20 AND 30 KILOMETERS A64-80770 DIAGNOSIS AND TREATMENT N64-22732 PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT RADIATION MEDICINE RELATIVE BIOLOGICAL EFFECTIVENESS OF RADIATION IN AND PROTECTION OF SPACECREW A64-80868 RELATION TO SPACE MEDICINE RESEARCH SOLAR CORPUSCULAR AND RADIO EMISSION HAZARD TO A64-80277 MANNED SPACE FLIGHT A64-81221 RADIATION PROTECTION EFFECT IN MOUSE OF NEW PSYCHOTROPIC DRUGS COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACCLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL A64-81157 BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N6 N64-10009 RACIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND TOXICOLOGY OF RADIOACTIVE MATERIALS ELECTRCKYMOGRAPHS JPRS-21511 N64-10037 N64-10561 COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RACIATION HAZARD IRON-59 IN ORGANISM N64-10038 POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-12750 RACIATION HAZARD TO PERSONNEL DUE TO TRITIUM N64-10039 DIFFUSION IN GLOVE BOX OPERATIONS RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION LMS-2962 N64-13165 MEDICINE, AND BIOPHYSICS HAZARDS OF EXPOSURE TO PROTON RADIATION DURING JPRS-21868 N64-10328

A-230

N64-13186

N64-15341

SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS

PROTECTION AGAINST RADIATION HAZARDS IN WORKING

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS

AND LINEAR ENERGY TRANSFER

NASA-CR-55189

UCLA-520

N64-13502

IONIZING RADIATION EFFECT ON THIOPHOSPHATE CXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

DRAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND. AND INTESTINE ENZYME ACTIVITIES

N64-13504

CYANICE AND NITRILE COMPOUNDS FOR THERAPY OF RACIATION EXPOSURE IN MICE N64-13505

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT

N64-13506

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRENIC IRRACIATION N64-13508

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-135 N64-13509

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND

N64-15206

MATHEMATICAL ANALYSIS OF RADIATION INJURY INCIDENCE IN CELL CULTURE N64-15208

CBSERVATION, DIAGNOSIS, AND TREATMENT OF RADIATION INJURY AND SICKNESS JPRS-22879 N64-15676

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS

N64-15677

RADIATION MEDICINE - THERAPEUTIC PASTE FOR TREATMENT OF RADIATION LESIONS N64-15678

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA

N64-15679

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS

N64-15680

N64-15902

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681

RESTURATIVE PROCESSES IN EUDDENAL MUCOSA AFTER RADIATION EXPOSURE JPRS-22276 N64-15828

STUDY CF IRRADIATION EFFECTS ON PEROGNATHUS LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BICLOGY RESEARCH NASA-CR-55553

EFFECTS OF MASSIVE DOSES OF IONIZING RADIATION UPCN CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES DASA-NWER-03.008 N64-15993

PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES AD-432125 N64-16831

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS ORINS-43 N64-16945

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING

N64-17169

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO JPRS-23944 N64-18334 PHYSIOLOGICAL REACTIONS TO RADIATION & BICTELEMETRY JPRS-24301

N64-18972

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLICGRAPHY TID-3098, BK. 1 N64-1903: N64-19035

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BICLOGICAL SYSTEMS TID-3098, BK. 2 N64-19036

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT FUR-484_F

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE N64-20181

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS. MAN. AND PLANTS SB-62-60

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION NIJS-R-422 N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG NIJS-R-423 N64-21049

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS NIJS-R-421 N64-21056

THERAPY OF PATIENTS WITH RADIATION INJURIES -MEDICINE FTD-TT-63-610/182 N64-22652

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/16264 N64-23335

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL SB-62-60. VOL. II N64-25511

CHRCNIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM AD-602135

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN

METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION DASA-1422 N64-29941

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE AND REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS FTD-TT-64-329/16264 N64-32544

RADIATION PROTECTION
SOLAR RADIATION EFFECTS ON EYE, SOLAR IRRADIANCE
COMPUTATIONS UP TO 100 KM AND EYE PROTECTION FOR AIR TRAVELERS A64-14994

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS CONDUCTED DURING FLIGHTS OF VOSTOK III AND VOSTOK IV A64-23667

MCDIFICATIONS TO EXISTING INDUSTRIAL HEALTH PROGRAMS INDICATED FOR RADIATION WORKERS A64-26180

MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTENS A64-26812

TESTS ON WHITE RATS TO INVESTIGATE RADIATION PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS INFLUENCED BY BIOGEN AMINES A64-27581 CHEMICAL PROTECTION OF THE BODY AGAINST IONIZING A64-80144

SPACE RADIATION HAZARDS TO MAN AND MEANS OF A64-80648 PROTECTION

AMINO ACID ESTERS OF 2-MERCAPTOETHYLAMINE FOR A64-80909 RADIATION PROTECTION

TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL A64-80964

RACIATION PROTECTIVE EFFECT OF PYRIDOXAL-5-PHESPHATE IN RAT AND DOG A64-81092

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

RADIATION PROTECTION EFFECT IN MOUSE OF NEW PSYCHOTROPIC DRUGS A64-81157

RACIOSENSITIVITY OF ORGANISMS TO IONIZING RACIATION - PROTECTION BY VEGETABLE PIGMENTS IN PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS N64-11069 JPRS-19363

BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION N64-18094

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, $\boldsymbol{\epsilon}$ REGENERATION OF SCIATIC NERVE N64-20827 JPRS-24704

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION N64-21729 JPRS-24817

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR N64-21837

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RACIATION THERAPEUTIC UNITS

N64-22731

N64-23335

COSMIC RACIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/16264

BICLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744

MECHANISM OF ACTION OF RADIATION PROTECTIVE CHEMICALS N64-26633 AD-439992

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD N64-26757

RACIOLOGY & PROTECTION OF COMMUNITY FROM RADIATION FTD-TT-64-163/18384

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS AGAINST ICNIZING RADIATION N64-2 N64-29074

CRGANIZATION OF RADIATION PROTECTION MEASURES BY COMMUNITY N64-29075

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBICLOGY N64-31313 JPRS-26842

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS CE THERMAL RADIATION AND RADIATION SOURCES, AND RECTECTION AGAINST BIOLOGICAL EFFECTS TDCK-33500 N64-32018

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINCETHYLISOTHIURONIUM DIBROMIDE N64-32031 SAM-TER-64-40

X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES REPT.+1

RACIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY

AEC-TR-6258

N64-33582

RADIATION RESISTANCE
CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING RADIATION IN MAMMALS N64-10647

RADICRESISTANCE OF THERMCTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696

RADIATION SHIELDING WATER VAPOR FOUND TO PROTECT ARTEMIA CYSTS FROM RADIATION DAMAGE OR TO HEAL THE DAMAGE 464-10092

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD SHIELDED COSMIC RADIATION A64-80 A64-80615

TECHNOLOGICAL, PHYSICAL, METEOROLOGICAL, BIOLOGICAL AND ECONOMIC ASPECTS OF SPACE EXPLORATION A64-80786

PROPERTIES OF SOLAR, AND GALACTIC RADIATION AND METHODS OF RADIATION SHIELDING A64-80 A64-80789

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE JPRS-22083

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION N64-12886 JPRS-22082

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION

N64-12888

N64-10393

RADIATION SHIELDING OF HUMAN BEINGS FROM SOLAR FLARE, RADIATION BELT, AND GALACTIC COSMIC IONIZING RADIATION DURING SPACE FLIGHTS N64-15327 JPRS-23306

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY N64-16543 JPRS-23567

RADIATION SICKNESS RADIATION RECOVERY IN MAN - EVALUATION OF A64-80336 EXPERIMENTAL AND CLINICAL DATA

TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE A64-81267 OF X-RAYS

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS N64-10066 JPRS-21492

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS N64-10119 JPRS-21628

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS -DYNAMICS OF ACUTE RADIATION SICKNESS JPRS-21775 N64-10206

EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE N64-10392 JPRS-22000

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY

PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS

N64-10430 AEC-TR-5630

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY -RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS JPRS-17819

BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION SICKNESS IN RATS JPRS-18153 N64-10744

JPRS-22001

LOWERING THE IMMUNOBIOLOGICAL RESISTANCE OF CRGANISMS AS MANIFESTATION OF IRREVERSIBLE COMPONENT OF RACIATION SICKNESS

JPRS-19152

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE

JPRS-19269

R64-11349

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS — IMMUNCLOGY & RADIATION SICKNESS

JPRS-20040

N64-11354

JPRS-20040 N64-11354

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS
JPRS-22123 N64-11358

IMMUNCLOGY OF ACUTE RADIATION INJURY JPRS-18620

RACIATION EFFECT ON ANTIMICROBIAL IMMUNITY

N64-11829

N64-11830

INFECTION PROCESSES IN IRRADIATED ANIMALS - RADIATION EFFECT N64-11831

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS
N64-11832

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS

JPRS-22591 N64-12149

ROLE OF FUNCTIONAL STRESS IN LOCALIZATION OF RADIATION SICKNESS JPRS-22586 N64-12576

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES
JPRS-22180 N64-1:

JPRS-22180 NG4-12764
PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC

HORMONE IN RADIATION SICKNESS N64-12769

EARLY DIAGNOSIS OF RADIATION SICKNESS
JPRS-22049 N64-12776

CRIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PRCTEIN - INVESTIGATION USING THERMAL PROPERTIES CF BLCCD SCLUTIONS N64-12777

PRCTEIN CONTENT OF BLOOD SERUM DURING ACUTE
RADIATION SICKNESS N64-12778

RRCTEIN METABOLISM IN RABBITS DURING ACUTE
RADIATION SICKNESS N64-12779

PRCTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR ACUTE RADIATION SICKNESS N64-12780

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS N64-12781

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION SICKNESS N64-12782

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RACIATION N64-12784

RADIATION SICKNESS JPRS-19996

RS-19996 N64-12801

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802

EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803

PRCBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE -STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE JPRS-22625 N64-13161

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION
JPRS-22556
N64-14251

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS

N64-14252

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE N64-15203

OBSERVATION, DIAGNOSIS, AND TREATMENT OF RADIATION INJURY AND SICKNESS
JPRS-22879 N64-15676

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS

N64-15680

N64-16296

RADIATION SICKNESS - USSR

JPRS-23566

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN AD-430559 N64-16645

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS
JPRS-23678
N64-16694

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY JPRS-23834 N64-17555

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS UR-654 N64-20696

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, & REGENERATION OF SCIATIC NERVE JPRS-24704 N64-20827

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS
JPRS-24452 N64-20943

RADIATION SICKNESS FROM INTERNAL RADIATION - ORAL DOSE OF RADIUM BROMIDE POWDER N64-20944

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS

N64-20946

CLASSIFICATION OF RADIATION SICKNESS

N64-20948

ACUTE RADIATION SICKNESS IN MAN FTD-TT-63-558/162

N64-21645

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION JPRS-24817 N64-21729

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN FTD-TT-63-1064/18284 N64-22363

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOINGICAL EFFECT OF HIGH ENERGY PROTONS

N64-22866

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277
N64-24630

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT JPRS-25251 N64-26055

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION

FTD-TT-63-933/1&2

N64-26722

ANTIRADIATION EFFECT OF PROPYL AND SODIUM GALLATES UNDER IRRADIATION OF 1000 ROENTGENS

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM N64-30245 POISONING

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF N64-30246 TONTZING RADIATION

RADIOSENSITIVITY OF MICE AFTER SPLENECTCMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES N64-30742 JPRS-26500

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS JPRS-26725 N64-32776

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM N64-32780 RADIATION SICKNESS

PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS

N64-32781

CHEMOTHERAPY FOR RADIATION SICKNESS JPRS-27220

N64-33578

IMMUNOLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC VACCINATION

N64-33961 JPRS-27281

RADIATION THERAPY

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS N64-11358 JPRS-22123

RADIATION THERAPY, SYNCHROTRON OPERATION. RADIOBIOLOGY, & RADIATION GENETICS STUDIES N64-13133

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205

CYBERNETICS IN RADIATION THERAPY

N64-20947

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS

N64-22731

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY N64-22732 DIAGNOSIS AND TREATMENT

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY N64-30241 JPRS-26216

INFLUENCE OF MEXAMINE ON REACTION OF PATIENT N64-30242 SUBJECTED TO RADIATION THERAPY

CYANIDES AND NITRILES FOR RADIATION THERAPY -MEDICAL RADIOLOGY N64-32306 JPRS-26887

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION N64-33577

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY N64-33975 JPRS-27289

RADIATION TOLERANCE ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION

464-27273 RADIATION RECOVERY IN MAN - EVALUATION OF

EXPERIMENTAL AND CLINICAL DATA DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION IN TWO STRAINS OF MICE A64-80726

RADICAL

SA FREE RADICAL IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC N64-30782 UCRL-11387, SUPPL.

RADIO RADIO TELEMETRY

RADIO ELECTRONICS RADIO ELECTRONICS IN BIOLOGY FTD-TT-63-830/18284

N64-21388

A64-80336

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT N64-28062 JPRS-26081

PERSONALIZED RADIO TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONDITIONS A64-23809

MEDICAL RADIO TELEMETRY AND ELECTRONICS JPRS-22551 N64-12356

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES SAM-TDR-63-80 N64-16642

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING PHYSIOLOGICAL RESPONSES FTD-TT-63-1029/16264 N64-21544

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM N64-27367 NASA-TT-F-9026

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY N64-30234 JPRS-24682

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

RADIO TRANSMISSION PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE N64-21741 USAPRO-TRN-135

RADIDACTIVE CONTAMINATION RADIOACTIVITY MEASUREMENTS OF AIR FRANCE AIRLINERS A64-80030

ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN N64-16927 EUR-489.F

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD N64-26757 REPT.-5

RADIOACTIVE FALLOUT RADIDACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, SUBJECT INDEX RADIORIOLOGY

WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142 N64-13329

SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES -PUBLIC FALLOUT SHELTERS AD-603125 N64-32529

RADIOACTIVE ISOTOPE

CF CERIUM 144 CF COBALT 60

CF PHOSPHORUS 32

CF PLUTONIUM-239

CF RUBIDIUM 86 CF SODIUM-24

CF STRONTIUM 90

POLYVINYL PYRROLIDINE EFFECTIVENESS IN

REDUCING RETENTION OF RADIOISOTOPES IN BODY

N64-10039

REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775 N64-10456

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS RABBITS. AND DOGS N64-12433

GAMMA RADIDACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERTUM-144

MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROMINE, AND RUBIDIUM N64-12 N64-12438

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY RADIOACTIVE ISOTOPES JPRS-22610 N64-13320

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA

DATA ON ACCUMULATION COEFFICIENTS OF RADIOACTIVE ISOTOPES IN MARINE PLANTS AND ANIMALS JPRS-24227 N64-18969

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY TID-3098. BK. 1 N64-19035

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE IN MILK AND HUMAN THYROID HCRL-7716 N64-19097

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES TID-3098/INDEX/ N64-19236

MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIOACTIVE ISOTOPES AND NUCLEAR RADIATIONS AEC-TR-6298 N64-20823

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM JPRS-24936 N64-21285

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES FTD-TT-63-664/1

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIDACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA

N64-22853

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROWINE ISOTOPE IN THYROID GLANDS OF RATS N64-22869

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION

OF PLACENTA IN GASTROINTESTINAL TRACT

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS

FOR RADIOACTIVE IDDINE

N64-30036

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIDACTIVE ISOTOPES

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS BNL-857/T-341/ N64-30623

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY FTD-TT-63-923/162

TOXICOLOGY OF RADIOACTIVE IRON

FTD-TT-64-599/1

N64-33943

RADIOACTIVE MATERIAL TOXICOLOGY OF RADIOACTIVE MATERIALS

JPRS-21511 N64-10037

RADIATION EXPOSURE CONTROL METHODS AND RADIOACTIVE MATERIAL DOSAGES JPRS-18522

N64-10575

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS N64-13004

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142

SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD N64-14924

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150

RULES FOR TRANSPORTATION AND SHIPMENT OF

RADIOACTIVE MATERIALS AEC-TR-6315

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN UCLA-12-521 N64-20672

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS AD-438147 N64-27263

CF FISSION PRODUCT INDUCED RADIOACTIVITY IN BIGNATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT

N64-11686

N64-20477

MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY OF BROOKHAVEN NATIONAL LABORATORY BNL-807/T-310/ N64-14395

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION ϵ radioactivity of MARINE ANIMALS JPRS-23285 N64-15334

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF OUTER SPACE N64-15397

RADIDACTIVITY AND RADIOCHEMICAL ANALYSIS — HEALTH AND SAFETY LABORATORY MANUAL NYO-4700, REV. N64-15997

RADIOBIOLOGY

PHOTOSYNTHESIS EXPERIMENTATION IN ORDER TO STUDY FEASIBILITY OF SYNTHETIC MANUFACTURE OF FOOD PRODUCTS A64-13745

RADIOBIOLOGICAL PROBLEM OF EFFECT OF IONIZING RADIATION UPON A HUMAN ORGANISM, DURING ORBITAL AND SPACE MISSIONS

A64-15 A64-15629

RADIATION SHIELDING DEPENDENT ON DOSIMETRY OF FLARE-PRODUCED AND VAN ALLEN BELT PROTON BEAMS A64-24397

IONIZING RADIATION EFFECTS ON ASTRONAUT ORGANISMS.

NOTING BIOLOGICAL PROTECTION AND CHARACTER OF RADIOBIOLOGICAL INJURIES A64-28455

RELATIVE BIOLOGICAL EFFECTIVENESS OF RADIATION IN RELATION TO SPACE MEDICINE RESEARCH
A64-80277

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION

MEDICINE, AND BIOPHYSICS

JPRS-21868

N64-10328

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION JPRS-18904 N64-10807

EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS N64-10935

BIOLOGICAL ACTION OF IONIZING RADIATION

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS LAMS-3034 N64-1657

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIO-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES
IN YEAST CELLS DUE TO IONIZING RADIATION - RADIOBIOLOGY
N64-18206

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS
TID-3098. BK. 2 N64-19036

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062

RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY AEC-TR-6258 N64-33582

RADIOCHEMISTRY

JPRS-20375

RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH AND SAFETY LABORATORY MANUAL NYO-47CO, REV. N64-1599

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIO-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBICLOGY N64-16909

RADIOCHEMISTRY OF PYRMIDINE BASES - ACTION OF RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF BACTERIA
FUR-16464F

N64-28659

RADIOGRAPHY

SA AUTORADIOGRAPHY
SA X-RAY PHOTOGRAPHY
CF PHOTOGRAPHY
THORACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN
SELECTION AND PERIODIC EXAMINATION OF MILITARY
FLYING PERSONNEL IN FRANCE
A64-80303

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES SAM-TDR-63-93 N64-12865

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS TIMES CF CCLD EXPOSURE AAL-TDR-63-7 N64-13631

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313
N64-14898

GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL
RADIOGRAPHY
N64-23275

BENEFICIAL USES OF RADIATION EFFECTS - POWER,

ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND
TRACER TECHNOLOGY
REIC MEMO-25 N64-24967

RADIOLOGY

N64-12895

RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION
LEVEL WITH GEOLOGY
CEX-6164
N64-10407

RADIOLOGICAL MEDICAL ENCYCLOPEDIA JPRS-18414

N64-10866

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY JPRS-19995 N64-12570

RADIATION THERAPY, SYNCHROTRON OPERATION,
RADIOBIOLOGY, & RADIATION GENETICS STUDIES
UCSF-23 N64-13133

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY
RADIOACTIVE ISOTOPES
JPRS-22610 N64-13320

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORATATION OF PLUTONIUM-BEARING WEAPONS SC-4973/RR/ N64-14046

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING WEAPONS No4-15336

RACIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY,
TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS

N64-15677

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/162 N64-16377

MEDICAL RADIOLOGY - RADIATION SICKNESS, ANIMAL STUDY, AND CYBERNETICS
JPRS-24452 N64-20943

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/16284 N64-23335

SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE MATERIALS AD-438147 N64-2726

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION UCLA-12-529 N64-27

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION
EFFECTS DURING SPACE FLIGHTS N64-27631

RADIOLOGY & PROTECTION OF COMMUNITY FROM RADIATION FTD-TT-64-163/18384 N64-29073

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS
AGAINST IONIZING RADIATION N64-29074

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS

1PRS-24542 N64-29759

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY JPRS-26842 N64-31313

RADIOBIOLOGICAL RESEARCH - STUDIES ON ANIMAL METABOLISM, EFFECTS OF EXPOSURE, PATHOLOGY, BIOCHEMISTRY OF FISSION PRODUCTS, AND GENETICS ORO-624 N64-31471

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY

JPRS-26887

N64-32306

RADIOPATHOLOGY

CF RADIATION SICKNESS

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA
RADIATION ON CARRION FLIES AND THEIR PROGENY

1085-22107

RROBLENS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-12804

RADIOPHOSPHOR

RADIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS
BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM
A64-80324

RADIOPHYSICS

RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS NYO-10451 N64-12123

RADIOSENSITIVITY
RADIATION EFFECT ON ORGANISM OF MAMMALS,
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY
OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522 N64-12068

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO JPRS-22719 N64-13163

CYTCLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARRON & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS JPRS-22778 N64-13230

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLCOD, RADIOSENSITIVITY, AND RADIATION THERAPY JPRS-26216 N64-30241

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30247

RADIUM

RADIATION SICKNESS FROM INTERNAL RADIATION - ORAL DOSE OF RADIUM BROWIDE POWDER N64-20944

RADIUM 226

EFFECT CF STRONTIUM 90 AND RADIUM 226 ON BEAGLE
UCD-472-110 N64-26C43

RADON

DEVICE FCR MEASUREMENT OF RADON IN BREATH UR-640 N64-17466

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES UR-624 N64-18409

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM UR-648 N64-31319

RANDOM PROCESS

CF STOCHASTIC PROCESS
ANIMAL AND HUMAN PHYSIOLOGICAL PROCESSES
REPRESENTED BY RANDOM FUNCTIONS

A64-25606

RANDOM VIBRATION

HUMAN PERFORMANCE CURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

RARE EARTH S PROMETHIUM

RARE GAS CF ARGCN CF HELIUM CF NEON
CF RADON
PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE
GASES ON CELLULAR SYSTEMS
AD-600641
N64-25925

RAT

ACCELERATION FORCES CAUSING DISRUPTION OF TIMING BEHAVIOR IN WHITE RAT A64-13748

ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS
A64-13750

ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS
OF WEIGHTLESSNESS A64-13753

BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS DURING HIGH ALTITUDE EXPOSURE A64-13754

HIGHEST SURVIVAL TIME OF MICE LIVING IN PURE OXYGEN ENVIRONMENT IS 13 DAYS A64-19174

MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION

A64-27273

BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MOTIVATION

A64-BOOD

BIOLOGICAL EFFECT OF HIGH FREQUENCY ELECTRO-MAGNETIC FIELD A64-80014

ABDOMINAL REFLEX INHIBITION IN RAT DURING HYPERVENTILATION A64-80022

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION A64-80031

ALVEOLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM OF HYPERPNEA IN RAT EXPOSED TO COLD

A64-80046

MECHANISM OF HYPERPNEA DUE TO COLD IN RAT
A64-80054

HYPOTHERMIA AND ASCORBIC ACID CONTENT AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT OTS 62-11760/1. A64-80060

HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

A64-80066

GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS AFFECTED BY CONFINEMENT AND EXERCISE

A64-80067

PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND DISULPHIDE GROUPS DUE TO HIGH PRESSURE DXYGEN BREATHING IN RATS A64-B0073

PHOSPHORUS METABOLISM IN COLD EXPOSED RAT

DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS

A64-80089

ADENOSINE TRIPHOSPHATE IN BRAIN OF RAT EXPOSED TO CHRONIC HYPERCAPNIA A64-80100

CCLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND ELECTROSHOCK SEIZURES A64-80102

PROLONGED EXPOSURE OF YOUNG RATS TO AN OXYGEN ATMOSPHERE AT REDUCED PRESSURE A64-80169

COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL IRRADIATION A64-80270

CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE SULFATE IN RATS EXPOSED TO OXYGEN UNDER PRESSURE A64-80283

COLD AND RESTRICTION STRESS EFFECT ON ACID MUCOPELYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT

A64-80514

BICELECTRICITY AS POWER FOR IMPLANTED ELECTRONIC A64-80537 DEVICES IN RAT

BODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE A64-80552

RESTRICTED WATER INTAKE AS RELATED TO WATER A64-80555 BALANCE AND FOOD INTAKE IN RAT

WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM ACTIVITY IN RAT IN VARIOUS ACTIVITY MEASURING DEVICES AT DIFFERENT ENVIRONMENTAL TEMPERATURES A64-80556

ULTRASCUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLCCD, AND TISSUE RESPIRATION IN RAT ANC RABBIT A64-80560

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT CN BASAL METABOLIC RATE, ADRENAL GLAND, PRCSTATE GLAND, AND WHITE BLOOD CELL

A64-80566

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

ADRENCECRTICOTROPIN AND ADENOSINE TRIPHOSPHATE REFERENCE ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES AND HEART DURING HYPOXIA IN RATS

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO DAYGEN AT HIGH PRESSURE

A64-80629

BENZENE INTOXICATION AS RELATED TO ENZYME ACTIVITY IN RAT AND RABBIT A64-80720

CARBON TETRACHLORIDE POISONING AS RELATED TO TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND A64-80730 FATTY ACIDS IN RAT LIVER

BRAIN BLCCD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATCPCIETIC CHANGES IN WHITE RAT ADAPTING TO HYPCXIA IN ENVIRONMENTAL CHAMBER

A64-80759

LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT A64-80763

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO COLD A64-80783

INTERCCRRELATION OF EXERCISE, BODY COMPOSITION, FOCD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

HEART RATE RESPONSE OF RAT TO AUDITORY STIMULI OF A64-80811 VARYING DURATION

MYCCARDIAL TENSION IN RAT AS RELATED TO PRESSURE OF DXYGEN AND CURATION OF EXPOSURE

A64-80813

PRCLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHCSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS A64-80814

EFFECT OF PROLONGED ACCELERATION ON EATING. BODY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

COLD RESPONSE OF THYROID IN HEAT-ADAPTED RAT FOLLOWING BILATERAL LESION OF HABENULAR NUCLEI 464-80880

METABOLIC RESPONSE TO COLD AND RELATIONSHIP BETWEEN BODY TEMPERATURE AND BASAL METABOLIC RATE OF UNDERFED RAT 464-80903 CONTROL OF RODENT POPULATION AND POTENTIAL VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS A64-80913

DECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED A64-80914 CENTRIFUGATION

ADRENALECTOMY EFFECT IN RAT ADAPTED TO HYPOXIA ON RADIAL ACCELERATION TOLERANCE A64-8093 A64-80932

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD

CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DCG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

CHLORPROMAZINE EFFECT ON CATECHOLAMINE EXCRETION OF NORMAL AND COLD ACCLIMATED RAT A64-80983

LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL A64-81029 COMPONENT

GLUCOSE AND CARBOHYDRATE METABOLISM IN ANOXIC-ISCHAEMIC RAT BRAIN A64-81048

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN A64-81065 COLD EXPOSED RAT

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL A64-81087 STRESS IN RATS

RADIATION PROTECTIVE EFFECT OF PYRIDOXAL-5-PHOSPHATE IN RAT AND DOG A64-81092

POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY INHALATION OF NINE SOLVENT VAPORS

A64-81096

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN AND PHYSICAL STRESS A64-81156

THALAMUS CONTROL OF VOLUNTARY MOVEMENT IN RAT A64-81179

CENTIMETER WAVE RADIATION OF VARYING INTENSITY AND EFFECT ON PERIPHERAL BLOOD AND HEMATOPOIETIC A64-81211 SYSTEM

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG A64-81251

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY TO STIMULANT DRUG A64-81252

ION MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE A64-81267 OF X-RAYS

DEGREE OF ACTOMYOSIN VISCOSITY IN MUSCLE CONTRACTION IN HYPOXIA IN RAT A64-81268

OXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLCOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN A64-81270

OXYGENATING ENZYMES IN BRAIN CORTEX AND MEDULA IN

RATS ACAPTED TO HYPOXIA

A64-81293

24-HOUR PERIODICITY OF MITOTIC DIVISION OF CELLS AND GLYCCGEN CONTENT IN LIVER OF RAT

A64-813C7

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING IN COLC WATER A64-81319

BLCOD, TISSUE, ENZYME, AND ISCENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

IMMUNCLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGGEN IN NORMAL AND TUMOR-BEARING RATS UR-634 N64-10190

TRAINING FOR CXYGEN DEFICIENCY IN WHITE RATS IMMEDIATELY AFTER SEVERE BURN INJURY JPRS-21999 N64-10391

EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE JPRS-22000 N64-10392

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS UR-635 N64-10616

EFFECT OF GAMMA RACIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS JPRS-22017 N64-10664

EFFECT OF SCDIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS JPRS-19355 N64-11217

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT JPRS-20011 N64-11319

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RACIATION SICKNESS IN RATS JPRS-22123 N64-11358

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER

CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA NADC-MA-6319

BICLOGICAL EFFECT OF IONIZING RADIATION ON RATS JPRS-19163 N64-12432

BICLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISCTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12 N64-12433

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION N64-12434

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TC REDUCE STRONTIUM-90 CONTENT OF RAT SKELETCN

JPRS-22295 N64-12442

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS CF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-1 N64-12444

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION N64-12783

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796 EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES AAL-TDR-63-33 N64-13632

EFFECT OF COLD ON PROTEIN METABOLISM IN RATS TN-62-11 N64-13830

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF JPRS-22556

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL DUE TO X-RAY IRRADIATION OF RATS

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253

NONPROTEIN AMINC ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS NACC-MA-6318 N64-14351

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION N64-14605

HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA

INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040

SEDIMENTATION RATES OF NUCLEATED AND NONNUCLEATED CELLS OF NORMAL RAT BONE MARROW

N64-15210

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC DXYGEN POISONING NADC-MA-6324 N64-15363

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN N64-17498

TRACHEA OCCLUSION IN RATS BREATHING DXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

STRONTIUM 90 TOXICITY IN RAT EMBRYO UR-639 N64-18348

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/16264

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT EUR-484.E

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST N64-19865

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS UR-654 N64-20696

RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS * DOSE, AGE, & ADMINISTRATION RATE SYSTEM OF WHITE RATS N64-20715 N64-27636 JPRS-26042 EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SIGNRESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE N64-27954 NADC-MA-6331 FTD-TT-63-1064/16264 VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED RATS - ELECTRIC RESISTANCE IN SECTION OF BETWEEN TWO STIMULI BY FEMALE HOODED RATS PULMONARY TISSUE IN MAN N64-28425 JPRS-25464 DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BOCY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISCTOPE AND POSITRON SCINTILLATION CAMERA RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28 ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT N64-22855 UCRL-10898 REPT.-5 FREE STREAM FRACTIONATION OF CELLS IN RAT BONE PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF N64-22857 HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE RATS ISCTOPE IN THYROID GLANDS OF RATS AMRL-TDR-64-48 N64-22869 EFFECT OF NEUROMUSCULAR BLOCKING AGENT ON DIAPHRAGM TISSUE OF RAT BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-30538 AD-439674 N64-22879 EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL BLOOD CHANGES IN WHITE RATS DOSES OF ICHIZING RADIATION NASA-TT-F-8851 FTD-TT-64-242/1 N64-23046 NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS USNRDL-TR-670 N64-31175 AAL-TDR-62-50 EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344 STRESS EFFECT ON RACIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF EFFECT OF STRONG STRESS AND HIGH DOSES OF MERCAMINE ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL N64-23255 JPRS-25130 REORGANIZATION OF RAT ADRENAL GLAND N64-31345 BRAIN SERCTONIN AND BEHAVIOR IN SELECTED STRAINS OF RATS FFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME UCRI-11179 OF SOME ORGANS OF RATS N64-31347 GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION PANNALS N64-25308 AD-600960 N64-31665 NADC-ML-6407 RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN N64-25309 AFTER GAMMA RADIATION EXPOSURE N64-31829 EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES AAL-TDR-63-17 PROTEIN-BOUND ICDINE IN SERUM OF RATS BREATHING 99 PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ACTIVITY IN LIVER OF YOUNG RATS ALBINO RATS SAM-TDR-64-29 N64-25340 **NVI -359** DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE N64-25975 NASA-RP-262 RADIATION SICKNESS OF WHITE RATS N64-32781 PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE N64-26782 NASA-TT-F-197 IN RATS CAUSED BY IRRADIATED FOOD N64-33993 EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLECTIDES IN RAT LIVER NASA-TT-F-224 RATE N64-27036 HEART RATE RESPIRATORY RATE FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS SIGNAL TO NOISE RATIO NASA-TT-F-9025 N64-27138

N64-27369

S KINETICS

REACTION CONTROL

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL

N64-13499

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY

MORTALITY OF RAT FETUS AFTER IRRADIATION OF

IN BRAIN AND MUSCLE TISSUE OF RATS

JPRS-25630

PARENTAL GAMETES

NASA TT-F-9036

REACTION TIME
REGRESSION ANALYSIS OF RESPONSE TIME, FOR PILOT
SENSORY MOTOR PERFORMANCE IN RELATION TO AGE
A64-11507

REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR VISUAL PURSUIT A64-12934

SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR PERFORMANCE A64-12935

RETINAL AREA AND STIMULUS INTENSITY RELATIONSHIP
TO HUMAN REACTION TIME A64-27752

NOISE EFFECTS ON DISCRIMINATION REACTION TIME
A64-80010

REACTION TIME DURING RESPIRATORY CYCLE

A64-80012

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY A64-80131

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK A64-80150

REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING SIGNAL IN YOUTH AND OLD AGE A64-80164

DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS UNDER DIFFERENT SCHEDULES A64-80201

REACTION TIME UNDER THREE VIEWING CONDITIONS --BINDCULAR, DOMINANT EYE, AND NONDOMINANT EYE A64-80229

INTERSENSORY AND INTRASENSORY EFFECT IN SIMPLE REACTION TIME A64-80290

VISUAL REACTION TIME AS FUNCTION OF INTENSITY-TIME RELATION OF STIMULUS A64-80322

DECOMPRESSION TESTS FOR B-58 ESCAPE CAPSULE SYSTEM
A64-80331

REACTION TIME AS FUNCTION OF INTERVAL BETWEEN TWO CONSECUTIVE SIGNALS A64-80347

REACTION TIME IN RELATION TO BLOCKING OF ALPHA
RHYTHM A64-80356

REACTION TIME AS FUNCTION OF RELATIVE SIGNAL FREQUENCY A64-80364

AMPLITUDE AND DURATION OF OCCIPITAL ELECTROENCEPHALOGRAPHIC RESPONSE TO DIFFERENT INTENSITIES OF FLASH STIMULATION

A64-80375

DECISION-MAKING PROCESSES CONSIDERED WITHIN DIFFERENT THEORETICAL FRAMEWORKS

A64-80380

VISUAL-OCULOMOTOR TRACKING IN MAN - CHARACTERISTIC ELECTROCORTICAL ACTIVITY A64-80494

REACTION TIME AND SERIAL RESPONSE EFFICIENCY ON ARGUSAL FROM SLEEP A64-R0572

CHOICE REACTION TIME AS FUNCTION OF COGNITIVE ASPECTS OF TASK A64-80573

REACTION TIME TO REGULARLY RECURRING VISUAL STIMULI A64-80583

VIGILANCE PERFORMANCE INFLUENCED BY THREE DIFFERENT TYPES OF KNOWLEDGE OF RESULTS

A64-80589

SHORT-TERM FOOD DEPRIVATION EFFECTS ON REACTION TIME A64-80609

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS COMPARED TO MEN A64-80683 PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE REACTIONS TO C-AMPHETAMINE AND PHENOBARBITAL A64-80780

RESPONSE UNCERTAINTY AS RELATED TO OVERALL REACTION TIME A64-80812

EFFECT OF PROLONGED ACCELERATION ON EATING, BODY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

OBSERVATION OF POSITIVE SKEW IN REACTION TIME DISTRIBUTIONS A64-80902

SELECTIVE RESPONSE TIME INFLUENCED BY
INTER-STIMULUS INTERVAL AND PROBABILITY OF
OCCURRENCE OF STIMULUS
A64-80967

VISUAL DISCRIMINATION OF FORM BY HUMANS IN CARD SORTING AND TACHISTOSCOPIC EXPOSURE TASKS

A64-80968

AGE FACTOR AND FORESIGNAL IN CHOICE REACTION TASK
PERFORMANCE IN YOUNG AND AGED ADULT HUMAN
A64-80972

AGE FACTOR AND REACTION TIME IN PERFORMANCE OF CARD SORTING TASK BY AGED AND YOUNG ADULT HUMAN
A64-80973

SPEED OF VISUAL SIGNAL PRESENTATION AND EFFECT CN VELGCITY AND ACCURACY OF RESPONSE A64-81060

REACTION TIME AFFECTED BY NEUROMUSCULAR
JUNCTIONAL TRANSMISSION IN MUSCLES UNDER MAXIMAL
STRETCH A64-81143

REACTION TIME IN HUMAN TO ONSET AND END OF MECHANICAL CUTANEOUS STIMULI A64-81148

VISUAL REACTION TIME RELATED TO EXPECTANCY OF STIMULUS A64-81151

AGE, INFORMATION TRANSHISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS AMRL-TDR-63-89 N64-11439

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS N64-15047

MOTOR REACTION TIME IN HUMANS UNDER ISOLATION CONDITIONS N64-23758

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS N64-30323

REACTOR CONTROL
S CONFINEMENT

S REACTOR SAFETY

O MERCION SAILII

REACTOR FUEL
S FISSION PRODUCT

REACTOR PHYSICS
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK &
COBALT 60 SOURCE OPERATION IN BREN PROJECT
CEX-6203
N64-10408

REACTOR SAFETY
SAFETY PROBLEMS IN NUCLEAR SPACE SYSTEMS
ENGINEERING, INCLUDING STUDY OF SNAP AND NERVA
PROJECTS
A64-11918

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW A64-80868

STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY

NUCLEAR REACTOR TEST SITE PERSONNEL IDO-12028

N64-10428

RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR N64-21837

READOUT

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM N64-14750 LF-13

REAL TIME

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION

N64-10535

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSICN SIMULATION NASA-TN-0-2447 N64-29206

RECEPTION

SIGNAL RECEPTION

RECEPTOR

SA CHEMORECEPTOR VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-1 N64-12522

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN N64-31829 AAL-TDR-63-17

RECOGNITION

SA MACHINE RECOGNITION SA TARGET RECOGNITION LEFT-RIGHT DIFFERENCES IN TACHISTOSCOPIC RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE PRESENTATION OF STIMULI A64-80063

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-N64-18836 FREE ENVIRONMENT

RECONNAISSANCE SPACECRAFT

MANNED SPACECRAFT FOR SURVEILLANCE AND RECONNAISSANCE USING UNAIDED VISION AND MAN-PERISCOPIC VISION A64-10632

RECORDIL

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS A64-80628

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO DXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80 A64-80883

RECORDING INSTRUMENT
SA ELECTRONIC RECORDING INSTRUMENT SA PHOTOGRAPHIC RECORDING INSTRUMENT ELECTROMECHANICAL METHOD FOR CONTINUOUS REGISTRATION OF ACTION POTENTIALS AND FREQUENCY SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER A64-80674 BIOLOGICAL VARIABLES

METHOD FOR SYNCHRONIZED RECORDING OF THORAX MOVEMENTS AND SOUND PARAMETERS DURING VOCAL A64-81057 **FXERCISE**

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD N64-16808 AMRL-TDR-63-106

PLOTTING AND ANALYZING CUMULATIVE RESPONSE CURVES IN OPERANT CONDITIONING STUDIES NADC-MI -6406

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS, FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM, AND NYSTAGNUS RECORDING INSTRUMENTATION FTD-TT-64-386/182 N64-31074

PRESSURE TRANSDUCER FOR OPTICAL RECORDING N64-31105 **OSCILLOGRAPH**

RECOVERY

HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC A64-80080 EXERCISE

RADIATION RECOVERY IN MAN - EVALUATION OF EXPERIMENTAL AND CLINICAL DATA A64-80336

HISTORY OF AIR RESCUE SERVICE AND USE AND DEVELOPMENT OF DEVICES AND TECHNIQUES FOR AIR EVACUATION OF SICK AND WOUNDED - RESCUE IN SPACE

HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS RELATED TO PROTECTION UNDER FIRST GENEVA CONVENTION

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES TDR-2

RED'BLOOD CELL

ERYTHROCYTE

REDUCTION

- DATA REDUCTION NOISE REDUCTION

REENTRY

S ATMOSPHERIC ENTRY

REENTRY VEHICLE PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC NASA-TM-X-56005

REFERENCE SYSTEM HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE SYSTEMS AD-600319

REFINING

S PURIFICATION

REFLECTION

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY JPRS-23370

N64-15417

REFLEX

SA RESPIRATORY REFLEX
CF CONDITIONED RESPONSE
FREQUENCY, AMPLITUDE, LATENCY AND MAGNITUDE
MEASUREMENTS OF CONDITIONED EYELID REFLEX A64-19521

ABDOMINAL REFLEX INHIBITION IN RAT DURING HYPERVENTILATION A64-80022

EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN THE HUMAN

EAR DRUM MOVEMENTS FOLLOWING STIMULATION OF MIDDLE A64-80296 EAR MUSCLES

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN A64-80340

NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND A64-80559

GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND PERCEPTION OF VERTICAL IN PRESENCE OF TILTED A64-80703

ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RADIANT HEATING OF TRUNK A64-80998

EVOKED RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA A64-81027 AND SLEEP

NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND A64-81028

CAROTID SINUS DEPRESSOR REFLEXES OF DOG DURING A64-81062

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-B1066

SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS A64 A64-81094

INITIAL REFLEX COMPONENT OF HYPERVENTILATION IN FIRST SECONDS OF PHYSICAL EXERCISE A64-81227

FLUID EXCHANGE ACROSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

REFLEX MECHANISM OF PERIODIC RESPIRATION IN A64-81261

DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR JPRS-21974

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES JPRS-23833 N64-17351

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213

EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIFNIS N64-31460

SA STELLAR REFRACTION STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA ARI-TDR-64-9 N64-32026

REFRACTIVE INDEX AXIAL LENGTH AND REFRACTIVE INDEX OF EMMETROPIC LIVING EYE IN MEN AND WOMEN A64-81 A64-81074

THEORETICAL TOTAL REFRACTION INDEX OF UNACCOMMODATED LIVING EYE CALCULATED FROM SIMPLE OPTICAL MODEL A64-81075

REFRACTORY MATERIAL S GLASS

REFRIGERATOR

PELTIER REFRIGERATORS AS TRANSDUCERS FOR PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE N64-11259

REGENERATION ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY N64-12796

HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL OCCIPITAL LOBECTOMY - NEUROLOGY

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS

N64-14252

HYDROGEN-OXIDIZING BACTERIA FOR USE MITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE

AMRL-TDR-64-35

N64-27432

REGENERATIVE CYCLE SELF-SUSTAINED LIFE SUPPORT SYSTEM DEVELOPED ON BASIS OF SYMBIOSES EXISTING BETWEEN ANIMALS AND PLANTS AND BETWEEN AUTOTROPHIC AND HETEROTROPHIC **PLANTS**

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM NASA-CR-52972 N64-11801

REGION S POLAR REGION

REGRESSION ANALYSIS REGRESSION ANALYSIS OF RESPONSE TIME, FOR PILOT SENSORY MOTOR PERFORMANCE IN RELATION TO AGE A64-11507

REGULATION SA THERMOREGULATION
AUTOREGULATION OF BLOOD CIRCULATION IN SKELETAL A64-81236

EVIDENCE FOR TISSUE DXYGEN DEMAND AS MAJOR FACTOR
IN AUTOREGULATION IN DDG A64-8123

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL -CYBERNETICS

REINFORCEMENT RELATION OF HUMAN PERFORMANCE IN AUDITORY VIGILANCE TO CHANGES IN REINFORCEMENT TR-19 N64-27097

RELATIVE BIOLOGICAL EFFECTIVENESS /RBE/ RELATIVE BIOLOGICAL EFFECTIVENESS OF RADIATION IN RELATION TO SPACE MEDICINE RESEARCH A64-80277

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER NASA-CR-55189

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217

RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND FTD-TT-63-1046/164 N64-25455

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS NASA-CR-58289 N64-29573

RELATIVISTIC EFFECT RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS JPRS-22995 N64-14074

RELATIVITY THEORY PERCEPTUAL THEORY OF RELATIVITY REGARDING SPACE AND TIME AS INSEPARABLE A64-24 A64-24406

THEORETICAL IMPLICATIONS OF RELATIVITY ON AGING - PHYSIOLOGICAL PROCESSES IN SPACE TRAVELERS A64-80350

MOTION PERCEPTION - STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, TIME, AND DISTANCE A64-80402

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY THEORY N64-16353

RELIABILITY CF SYSTEM FAILURE
RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY
AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS A64-22636

MECHANICAL ENERGY CONVERSION AND CONTROL EQUIPMENT SHOWING HUMAN LEARNING AS CONTRIBUTION TO RELIABILITY A64-22637

HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE

FCR TITAN II ENGINE LRP-317/TCR-63-218

N64-26025

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS N64-29277 FTC-TT-63-761/182

RELIABILITY ENGINEERING QUALITY CONTROL

REMOTE CONTROL

REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM EARTH, EXAMINING HUMAN AND SIMULATION ASPECTS

COMPARISON OF JOY STICK WITH MULTIPLE LEVERS FOR EFFECTIVE CONTROL-EFFECTOR RELATIONSHIPS IN REMOTE A64-26852 MANIPULATOR APPLICATIONS

CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMOTE CONTROLLED LUNAR LANDING SIMULATION A64-278C8

AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANGLING TASKS N64-27433 AMRL-TDR-64-46

RENAL CALCULUS NEPHRITIS AND RENAL CALCULUS IN FRENCH AIRCREWS A64-80032

INTRAVENOUS UROGRAPHY IN AIRCREWS

A64-80033

RENAL FUNCTION

TRYPTOPHAN-RICH PREALBUMIN EXCRETION AFTER A64-80006 STRENUCUS EXERCISE

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN A64-80627

HIGH ALTITUDE EFFECT ON SALIVARY SECRETION AND A64-81277 KIDNEY FUNCTION IN DOG

KIDNEY FUNCTION AT HIGH ALTITUDE IN DOG

A64-81278

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION CARI-63-22

CONTROL FEMALE ALBINO RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION N64-19865 UR-646

CUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLCW BY TRACER TECHNIQUES FOR EVALUATING RENAL

ISCHEMIA UCL A-12-523

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS CARI-63-26

RENDEZVOUS ORBITAL RENDEZVOUS

REPLACEMENT

REPLACEMENT OF MOTOR RESPONSES WITH VERBAL RESPONSES IN HUMAN PERFORMANCE N64-33960 JPRS-27172

REPRODUCTION RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS N64-10118

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION N64-11436

MECHANISM OF REPRODUCTION /REDUPLICATION/ OF DESOXYRIBCNUCLEIC ACID N64-18331

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955 REPRODUCTIVE SYSTEM SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS -PHYSIOLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MARMAL A64-80

464-80421

COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM N64-10326 JPRS-21521

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG N64-12111 UC0-107

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND MAMMALS N64-25308 AD-600960

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, N64-25314 COUNT. ACTIVITY

RESEARCH FACILITY BIDASTRONAUTIC RESEARCH CONDUCTED BY U.S. AIR A64-12986

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION A64-80999

INTERDISCIPLINARY APPROACH TO BIOASTRONAUTIC A64-81034 RESEARCH

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY
AECL-2050 N64-32308

RESERPINE ANDXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYDANTOIN, TRIMETHADIONE, IODOACETATE, AND A64-80800 RESERPINE

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS A64-81132

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND

GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE AND INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN AND PHYSICAL STRESS
A64-81150 A64-81156

RESIN

S ION EXCHANGE RESIN S SYNTHETIC RESIN

RESISTANCE

CF ELECTRIC CONDUCTIVITY

CF HEAT RESISTANCE

CF IMMUNITY
CF IMPEDANCE
CF RADIATION RESISTANCE INCREASED HOST RESISTANCE TO ACCELERATION STRESS DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULOENDOTHELIAL STIMULATION N64-13464

RESISTANCE HEATING

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS DURING AEROSPACE FLIGHTS N64-16812 MR-1187-60

PHOTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST

N64-10529

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY N64-26960 AMRL-TDR-64-29

RESONANT FREQUENCY RESONANT FREQUENCIES OF VISCERAL ORGANS N64-22328 AMRI-TDR-64-14

RESPIRATION

SA HIGH ALTITUDE BREATHING CF ASPHYXIA

CF INHALATION

SUBJECT INDEX RESPIRATION

CF DXYGEN METABOLISM
CF PRESSURE BREATHING
RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED
ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR
ABSENCE OF NITROGEN
A64-22054

PULMONARY VENTILATION ADJUSTMENT TO HIGH ALTITUDE EXERCISE A64-23256

LUNG DIFFUSION CAPACITY EFFECTS ON OXYGEN CONSUMPTION AT HIGH ALTITUDES A64-23258

HIGH ALTITUDE EFFECTS ON QUALITATIVE AND QUANTITATIVE CHANGES IN MANS MORK CAPACITY

64-23259

HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED SUBJECTS A64-23260

GEREBRCSPINAL FLUID EFFECTS ON HIGH ALTITUDE RESPIRATORY ACCLIMATIZATION OF MAN

A64-23261

PURE CXYGEN INHALATION, ALTITUDE AND PRESSURE BREATHINGS EFFECT ON MAXIMUM BREATH HOLDING TIME A64-23764

RESPIRATORY VOLUME PER SECOND AND TIFFENEAU INDEX IN OVER 100C PILOT CANDIDATES FOR SCREENING A64-24C9E

ABDOMINAL REFLEX INHIBITION IN RAT DURING HYPERVENTILATION A64-80022

CIRCULATORY AND RESPIRATORY EFFECTS OF DIFFERENT CXYGEN CONCENTRATIONS A64-80036

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE
RELATED TO BODY POSITION IN RABBIT

A64-B0040

EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF ANESTHETIZED DOG TO HYPOTHERMIA

A64-80049

PRESSURE-VOLUME DIAGRAM TO EXPLAIN MAINTENANCE OF NORMAL BREATHING RHYTHM DURING POSITIVE PRESSURE BREATHING A64-80057

FUNCTIONAL RELATIONSHIP BETWEEN RESPIRATORY
MUSCLES AND MUSCLES PERFORMING DYNAMIC WORK
A64-80065

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH A64-80114

REGULATION OF BREATHING AT BEGINNING OF EXERCISE
A64-80117

REFLEX CONTROL OF ABDOMINAL MUSCLES DURING
POSITIVE PRESSURE BREATHING A64-80310

RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN
A64-80312

RADIOTELEMETRY APPLIED TO STUDIES OF PHYSIOLOGY OF WORK AND SPORTS A64-80353

STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND PSYCHCLOGICAL RESPONSES A64-80361

QUANTITATIVE MORPHOLOGIC ANALYSIS OF HUMAN LUNG BY NEW METHODOLOGY A64-80386

PHYSICLCGICAL RESPONSES OF NORMAL AND PATHOLOGICAL SUBJECTS TC MODIFIED WORK CAPACITY TEST

QUANTITATIVE INTERACTIONS OF INCREASED CXYGEN AND CARBON DICXIDE TENSIONS UPON RESPIRATION IN MAN 464-80453

ALTITUDE EFFECT ON RESPIRATORY REGULATION AND CHEMORECEPTOR A64-80454

BLCOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

RELATIONSHIP BETWEEN RESPIRATORY WORK AND ARTERIAL CARBON DIOXIDE TENSION A64-80456

CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRADED TREADMILL EXERCISE A64-80516

PRESSURE VOLUME RELATIONSHIPS AT 30 000 FEET ALTITUDE AND AT GROUND LEVEL WHILE BREATHING PURE 0XYGEN A64-80630

RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF RESPIRATORY SYSTEM IN MAN IN SEATED POSTION

A64-80699

AIRWAY RESISTANCE MEASURED WITH VOLUME DISPLACEMENT BODY PLETHYSMOGRAPH

A64-80702

RESPIRATORY OUTPUT DURING WORK AS AFFECTED BY AMPHETAMINE AND METHAMPHETAMINE COMBINATION

A64-80721

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

A64-R0752

RIB CAGE AND DIAPHRAGM CONTRIBUTIONS TO VENTILATION IN MAN A64-80765

ANOXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY
AND ELECTROENCEPHALOGRAM AS AFFECTED BY
DIPHENYLHYDANTOIN, TRIMETHADIONE, IODOACETATE, AND
RESERPINE A64-80800

VESTIBULAR AND CARDIOVASCULAR RESPONSES TO WEIGHTLESSNESS AND ADAPTATION TO INCREASED GFORCES AS RELATED TO PULSE, BLOOD PRESSURE, RESPIRATION, AND ELECTROCARDIOGRAM

A64-80845

PHYSIOLOGICAL RESPONSES TO HIGH ENVIRONMENTAL TEMPERATURE AND HYPERTHERMIA A64-80878

ENVIRONMENTAL COLD AS RELATED TO METABOLISM, RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN A64-80879

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS

A64-80941 A64-80956

BRONCHIAL MUSCLE FUNCTION

NERVOUS FACTORS CONTROLLING RESPIRATION AND CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF BLOOD FLOW A64-80957

VENTILATORY RESPONSE OF DCG TO INTERMITTENT INSPIRED CARBON DIOXIDE A64-80993

RESPIRATION AND PHOTOSYNTHESIS OF CHLORELLA IN CLOSED ECOLOGICAL SYSTEM WITH AND WITHOUT GAMMA RAY IRRADIATION A64-81001

LUNG CAPACITY AND RESPIRATION PATTERN IN WIND-INSTRUMENT PLAYER A64-81019

CONDITIONED HEART RESPONSE IN HUMAN IN RELATION TO CONTROLLED AND UNCONTROLLED RESPIRATION

A64-81041

A64-81U41

OXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENDIDOSA, SCENEDESMUS OBLIQUUS AND ELODEA CANADENSIS A64-81051

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST

A64-81054

MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM OF BODY FUNCTION ${\sf A64-81056}$

METHOD FOR SYNCHRCNIZED RECORDING OF THORAX MOVEMENTS AND SOUND PARAMETERS DURING VOCAL EXERCISE A64-81057

ROLE OF AEROBIC WORK CAPACITY IN DETERMINING
PHYSICAL PERFORMANCE OF ORGANISM DURING PHYSICAL
EXERCISE
A64-81072

PHYSIOLOGICAL CHANGES IN HUMAN ORGANISM DURING ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC

BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION AND RESPIRATION A64-81184

ELECTRCENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE RESPIRATION, AND GALVANIC SKIN RESPONSE DURING SLEEP AFTER LONG WAKEFULNESS PERIOD

A64-81204

PHYSICAL AND PHYSIOLOGICAL CHARACTERISTICS OF CHILDREN LIVING AT HIGH ALTITUDE

A64-81248

ADAPTATION AND PHYSIOLOGICAL RESPONSE OF HUMAN ORGANISM TO HYPOXIA AT HIGH ALTITUDE A64-81259

MECHANISM OF INTERACTION OF RESPIRATORY CENTERS UNDER VARIOUS TYPES OF HYPOXIA IN RABBIT AND CAT A64-81260

REFLEX MECHANISM OF PERIODIC RESPIRATION IN
HYPOXIA A64-81261

PHASES OF ACAPTATION PROCESS TO HIGH ALTITUDE
A64-81273

PHYSICLOGICAL MECHANISM OF ADAPTATION TO HIGH ALTITUDE A64-81274

HIGH ALTITUDE EFFECT ON DXYGENATING PROCESS IN ATHLETES A64-81276

PHYSICLOGY OF ACAPTATION IN HUMAN TO HIGH ALTITUDE A64-81287

EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMCPHILIC PLANT
JPRS-21501 N64-10067

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING CRGANISMS N64-10797

CXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION N64-12835

RELATIONS BETWEEN CXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS N64-13370

DEVICE FCR MEASUREMENT OF RADON IN BREATH UR-640 N64-17466

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES NAEC-ACEL-518 N64-17659

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, CXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION
N64-17947

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695

AIRWAY RESISTANCE IN NORMAL RESPIRATION MEASURED BY VOLUME DISPLACEMENT PLETHYSMOGRAPH

EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION T-84-J N64-33496

RESPIRATORY DISEASE
REVIEW OF THE SYMPTOMS, ETIOLOGY AND TREATMENT OF
THE COMMON COLD, WITH SPECIAL ATTENTION TO THE
AEROMEDICAL PROBLEM IT PRESENTS

SAM-TOR-64-17

A64-10265

N64-29988

EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM A64-80306

AIR EVACUATION OF PATIENTS WITH ACUTE RESPIRATORY PROBLEMS USING INTERMITTENT POSITIVE PRESSURE

A64-80605

AIR TRANSPORTATION OF PATIENTS WITH PULMONARY DISEASE A64-80757

TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICO-LEGAL ASPECTS A64-81160

RESPIRATORY PHYSIOLOGY
PHYSIOLOGICALLY DESIRABLE RELATIONSHIP BETWEEN
OXYGEN CONCENTRATION IN THE INSPIRED GAS AND THE
ABSOLUTE PRESSURE WITHIN A PRESSURE OR SEALED
CABIN
A64-10248

REVIEW OF THE SYMPTOMS, ETIOLOGY AND TREATMENT OF THE COMMON COLD, WITH SPECIAL ATTENTION TO THE AEROMEDICAL PROBLEM IT PRESENTS

A64-10265

BIOLOGICAL REGENERATION IN CONFINED ENVIRONMENT OF SPACECRAFT, EMPHASIZING CLOSED CIRCUIT SYSTEM FOR REGENERATING RESPIRATORY GASES DURING LONG SPACE

EFFECTS OF CARDIOVASCULAR, THERMAL, VISUAL AND RESPIRATORY STRESSES INDUCED BY UNUSUAL ENVIRONMENT A64-12974

CRITICAL DXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS RELATED TO THE DEGREE OF OXIDATION OR REDUCTION OF CYTOCHROME SYSTEM A64-13513

HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS

RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK DURING POSITIVE PRESSURE BREATHING

A64-13751

REACTION TIME DURING RESPIRATORY CYCLE

A64-80012

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION

A64-80016

WATER LOSS THROUGH RESPIRATION

A64-80028

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION A64-80031

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS

A64-80044

ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY
MUSCLES DURING POSITIVE PRESSURE BREATHING
A64-80050

PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE, AGE, AND SEX IN ADULT HUMAN A64-80051

CONTINUOUS MEASUREMENT OF ALVEOLAR AIR COMPOSITION A64-80056

PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND RECUMBENT POSITION A64-80058

DETERMINATION OF STATIC PULMONARY AND
THORACOPULMONARY COMPLIANCE DURING POSITIVE
PRESSURE BREATHING A64-80059

GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL EXPIRATORY FLOW VOLUME RELATIONSHIP

A64-80068

RESPIRATORY FREQUENCY AND COMPLIANCE AT DIFFERENT LUNG VOLUMES A64-80108

RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE A64-80109

DXYGEN DISSOCIATION CURVES OF HEMOGLOBIN IN BLOOD SUBJECTED TO MATHEMATICAL ANALYSIS A64-80127

RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL A64-80157 EXERCISE AT SIMULATED ALTITUDE

RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER ADAPTATION TO ALTITUDE OF BLOOD AND CEREBROSPINAL A64-80160 FLUID

PULMONARY CIRCULATION IN HIGH ALTITUDE NATIVES 464-801R3

HUMAN TCLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION N64-13461 AND PROTECTIVE MEASURES

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSICLEGY OF MUSCLE RELAXANTS N64-14074 JPRS-22995

RESPIRATORY RATE STATOKINETIC STIMULI EFFECT ON FUNCTIONS OF HUMAN CREANTSMS

HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL RESPONSES DURING AND AFTER FLIGHT

A64-80333

PHYSICLOGICAL TELEMETRY METHOD DURING EXERCISE -STUDY OF HEART AND RESPIRATORY RATE

A64-80474

TELEMETRIC RECORDING OF RESPIRATORY AND PULSE RATE DURING EXERCISE - EVALUATION OF FATIGUE AND CARDICVASCULAR SYSTEM A6-A64-80475

RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO RESPIRATORY RATE 464-80598

RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DICKIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

RESPIRATORY REFLEX REFLEX CONTROL OF ABDOMINAL MUSCLES DURING A64-80310 POSITIVE PRESSURE BREATHING

RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN A64-80753 DOG INHALING DXYGEN

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE N64-33102 FTD-TT-64-69/18284

RESPIRATORY SYSTEM
CF CARDIORESPIRATORY SYSTEM
RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA DURING HIGH ALTITUDE ACCLIMATIZATION A64-12988

BAROMETRIC PRESSURE EFFECT ON MAXIMUM PRESSURE-VOLUME RELATIONSHIP OF HUMAN RESPIRATORY SYSTEM A64-22059

LANDING IMPACT STRESS TOLERANCE OF ANIMALS IMMERSED IN WATER, NOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC FITNESS TESTED BY EXERCISE A64-80081

DAYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND A64-80247 ANALYSIS OF BLOOD GASES

ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION

A64-80279

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR

TEMPERATURE IN RELATION TO RESPIRATORY PHASE. AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING 464-80352 **EXERCISE**

REGULATION OF RESPIRATION AND CIRCULATION THROUGH DAYGEN TENSION IN MIXED VENOUS BLOOD A64-80355

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO OXYGEN AT HIGH PRESSURE A64-80629

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE

RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF RESPIRATORY SYSTEM IN MAN IN SEATED POSTION A64-80699

RESPIRATORY PHYSIOLOGY IN AEROSPACE MEDICINE A64-80718

ALVEOLAR CARBON DIOXIDE EQUILIBRIA IN BREATH-HOLDING EXPERIMENTS WITH HUMANS

A64-80741

464-R0502

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

DETERMINATION OF NITROGEN CONCENTRATION DURING BREATHING WITH MULTIPLE BREATH METHOD AND RELATION TO NORMAL PULMONARY VENTILATION A64-80885

DEGREE OF ABSORPTION OF IONIZED AIR IN UPPER RESPIRATORY TRACT OF MAMMAL AND BIRD

A64-80895

PERCENTAGE CARBON MONOXIDE ABSORPTION AND RELATION TO PULMONARY DIFFUSING CAPACITY A64-80900

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD A64-80954

SO2 ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS RELATED TO CONCENTRATION AND BREATHING PHASE A64-80963

THORACIC AND ABDOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, OBESE AND NORMAL SUBJECTS 464-80997

PATHOGENESIS OF HIGH-ALTITUDE EMPHYSEMA WITH AND WITHOUT PRESSURE BREATHING

VITAL CAPACITY, MAXIMUM EXPIRATORY VOLUME, AND TIFFENAU INDEX MEASURED IN MALES BETWEEN 15 AND 18

CARBON DIOXIDE VENTILATORY STIMULUS AND RELATION TO NEUROGENIC VENTILATORY STIMULUS OF MUSCULAR A64-81219 EXERCISE

CARDIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPOXIA - METHOD DEVELOPED FOR FLIGHT FITNESS EXAMINATION A64-81: A64-81233

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIDVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

N64-11699

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM N64-11801 NASA-CR-52972

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT

N64-11853

METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT
N64-12770

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY

N64-15042

REACTION OF CIRCULATION, RESPIRATION, AND
METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH
ALTITUDE N64-15046

CARDICRESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94 N64-15744

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE SAM-TDR-63-99 N64-15745

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY AMRL-TOR-63-105 N64-16807

RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION AMRL-TDR-63-103/1/ N64-17926

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY
SYSTEM AIRFLOW
N64-17928

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY
PHYSIOLOGY
N64-17955

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH ARL-TDR-64-3 N64-21311

CIRCULATING DEVICE FOR CLOSED CIRCUIT RESPIRATORY SYSTEM

AMRL-TDR-64-8 N64-21433
RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER

EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT SAM-TDR-64-9 N64-22506

MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM
SAM-TDR-64-21 N64-25338

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY SAM-TDR-63-71 N64-26653

RESPONSE

- S CONDITIONED RESPONSE
- S FREQUENCY RESPONSE
 S HEMODYNAMIC RESPONSE

RESTRAINT

IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE AND CONTAINMENT A64-14002

COLD AND RESTRICTION STRESS EFFECT ON ACID MUCOPCLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS
A64-80632

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

RESUSCITATION

RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH JPRS-20013 N64-10600 CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA JPRS-18855 N64-10867

CARDIAC ARREST & RESUSCITATION JPRS-22010

N64-11225

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS
JPRS-22012
N64-11226

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE
METABOLIC PRODUCTS DURING RESUSCITATION AFTER
CLINICAL DEATH
N66-12769

RETINA

SA RETINAL IMAGE FOVEAL ABSOLUTE VISUAL THRESHOLD FOR SHORT LIGHT FLASHES SUBTENDING SMALL AREA OF VISUAL FIELD

MOTION AFTEREFFECT CONSIDERED WITH RESPECT TO ITS ORIGIN A64-80470

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT
INTRACRANIAL PRESSURE IN DOG A64-80611

PILOCARPINE INDUCED MIOSIS AND PROTECTION OF RETINA AGAINST THERMAL RADIATION

HUMAN ADAPTION TO LONGTERM EXPOSURE TO OPTICAL

DISTORTION PRODUCED BY WEDGE PRISM
A64-80894

HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR PRESSURE A64-80908

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION IN MAN A64-80952

RELATIVE DEPTH JUDGMENT AS FUNCTION OF EYE MOVEMENT A64-80974

SIMULTANEOUS BRIGHTNESS CONTRAST IN PERIPHERAL AND FOVEAL VIEWING OF TEST PATCHES A64-81003

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF VISION IN RETINAL ISCHEMIA A64-81016

VISUAL AFTERIMAGE PROLONGED BY POST-STIMULATION CONDITION IN VISUAL FIELD A64-81076

LIGHT AS REGULATOR OF NEUROENDOCRINE FUNCTION
A64-81090

CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS PHENOMENA A64-81134

SLANT PERCEPTION - GESTALT, HELMHOLTZ, AND GIBSON THEORIES A64-81159

INTERACTIVE EFFECTS WITHIN VISUAL PATTERN ON DISCRIMINABILITY OF INDIVIDUAL ELEMENT

CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION IN RETINA - CYBERNETICS N64-12521

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON ACTIVITY - RETINA N64-18832

EFFECT OF IONIZING RADIATION ON RETINA AND CTHER PHOTOSENSITIVE SYSTEMS

464-80514

SUBJECT INDEX FTD-TT-63-163/16264 N64-22343 EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES ON RETINAL SENSITIVITY REPT--1549-TDR-1 RETINAL IMAGE CONTROL SYSTEM OF EYE IN TARGET TRACKING INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL IMAGE MOTION SERVING AS FEEDBACK A64-25747 COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE A64-25825 SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR THREE RETINAL ECCENTRICITIES, USING COLOR NAMING METHOD 464-28417 SIZE CONSTANCY- FUNCTIONAL RELATION BETWEEN VISUALLY PERCEIVED SIZE AND DISTANCE 464-80190 ALPHA FREQUENCY OF ELECTROENCEPHALOGRAM AND STABILIZED RETINAL IMAGE A64-81241 VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522 RETRIEVAL S DATA RETRIEVAL RHENTUM HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM AEROSOL JPRS-26069 N64-27671 RHYTHM BIOLOGICAL RHYTHM RIB CAGE AND DIAPHRAGM CONTRIBUTIONS TO VENTILATION IN MAN A64-80765 RIBOFLAVIN SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE IN URINARY RIBOFLAVIN OF HUMAN A64-80876 THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010 RIBONUCLEIC ACID CF NUCLEOSIDE CF NUCLEOTIDE BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-RIBONUCLEIC ACID INTO PROTEIN JPRS-17811 N64-10566 SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID
MEASURED BY DURATION OF FLUCRESCENCE OF ACRIDINE ORANGE DYE JPRS-22521 TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS JPRS-22666 N64-13229 MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS N64-17973

INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE IN PROTEIN SYNTHESIS JPRS-24070 N64-18328 RIBONUCLEIC ACID IN PROTEIN SYNTHESIS N64-18330 EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO

ROTATING ENVIRONMENT JPRS-23944 N64-18334 SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SP8 N64-25880 EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER N64-27036 DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS JPRS-26042 N64-27636 INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS RIBONUCLETC ACID N64-32957 RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY N64-30785 RISK-TAKING RISK-TAKING BEHAVIOR EVALUATED AS UNITARY DIMENSION OF PERSONALITY A64-80447 ROCK MINERAL ROCKET ESCAPE ROCKET ROCKET SONDE ROCKET ENGINE SOLID PROPELLANT ROCKET ENGINE ROCKET SONDE BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS RODENT CF GUINEA PIG CF MOUSE CF RAT SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64-80509 CONTROL OF RODENT POPULATION AND POTENTIAL VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS A64-80913 PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS, AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD PURE TONES A64-81161 ROLL ATTITUDE SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL, PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE A64-80861 ROTATING ENVIRONMENT

HUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA ATAA PAPER 64-219 A64-18878 HUMAN TOLERANCE TO PHYSIOLOGICAL EFFECTS OF HEAD MOTIONS IN ROTATING ENVIRONMENT AIAA PAPER 64-218 A64-20093

MOTION PERCEPTION - ADAPTATION IN PERCEPTION OF ROTATING PATTERN

PENSACOLA SLOW ROTATION ROOM IN DISGRIENTATION AND MOTION SICKNESS STUDIES A64-80976

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION A64-80999

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA SLOW ROTATING ROOM

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND ATRSTCKNESS NASA-CR-55620 N64-15348

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE

FAILURE

REVOLUTIONS PER MINUTE N64-15349 NASA-CR-55622 S PILOT REACTION TO HIGH SPEED ROTATION SACCHARIDE S POLYSACCHARIDE NASA-RP-133 N64-15841 SAFETY HUMAN REACTIONS TO SLOW ROTATIONAL MOTION SA AIRCRAFT SAFETY SA FLIGHT SAFETY N64-20731 NASA-CR-53988 SA INDUSTRIAL SAFETY HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING CF HAZARD ADAPTATION TO LIVING IN ROTATING ROOM IMPROVEMENT OF ROCKET EJECTION SYSTEM LIFE-SAVING N64-22433 CAPABILITY THROUGH SYSTEM REFINEMENT AND AIRCREW A64-80946 TRAINING ROTATION CF TORQUE RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVIOR BY CHICKEN A64 AND SAFETY LABORATORY MANUAL NYO-4700, REV. 464-80321 N64-15997 ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL SEMICIRCULAR CANALS BY ELECTRO- AND SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS **PHOTOELECTRONYSTAGMOGRAPHY** 464-80373 NASA-TT-F-8823 N64-22936 VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL SAFETY, HAZARDS & ACCIDENTS A64-80384 ROTATION N64-24119 NASA-CR-56623 HABITUATION TO ROTATION RESULTING IN CHANGES IN PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS N64-25823 SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL, PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS N64-27335 ARTC-41 A64-80861 DISADVANTAGE OF PREDOMINANCE OF ANTICOMPENSATORY EYE MOVEMENTS DURING RAPID HORIZONTAL ROTATION OF MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE **EXPERIMENTS** A64-80862 NADC-ML-6410 RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER SAFETY DEVICE LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE FA-M64-23-1 A64-81053 CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS INTERRELATION OF ADDED WEIGHT EFFECTS AND SAFETY FACTORS IN MANNED SPACECRAFT SHOWING NEED FOR SUBSYSTEMS REQUIRING MINIMUM CREW PHASE SHIFT NASA-CR-53618 864-11454 HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF FTD-TT-64-32/182 N64-22365 STORAGE, HANDLING, & TRANSPORATATION OF PLUTONIUM-BEARING MEAPONS TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS SC-4973/RR/ SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC AIAA PAPER-64-218 N64-23608 DEVICE OF GIVEN DEPENDABILITY FTD-TT-63-37/182 N64-23295 HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION SAFFTY HAZARD POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION INHALATION OF NINE SOLVENT VAPORS A64-81096 STRESS NASA-TT-F-9025 SALMONELLA INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY -SALMONELLA THYPIMURIUM INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION N64-11211 NASA-CR-59286 N64-33331 JPRS-18092 SALT EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION CF PHOSPHATE N64-33496 T-84-J CF SODIUM CHLORIDE CF SULFATE ROTOR VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL S WING **DEHYDRATION OF SALTS** N64-10780 JPRS-18576 RUBIDIUM RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS CORTICAL REGULATION OF WATER & SALT METABOLIC THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY BALANCE NIJS-R-425 N64-12392 JPRS-22523 EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND TODINE-131 FROM RATS N64-12436 SAMPLED DATA MODEL FOR EYE MOVEMENT CONTROL SYSTEM IODINE-131 FROM RATS RULE NEURAL NET FOR MODIFICATION OF YOUNG SAMPLED DATA MODEL FOR EYE TRACKING MOVEMENTS REGULATION RUPTURE

SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME

INVARIANT CONTROL SYSTEM

A64-24833

SAMPLING CEVICE

RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND CONTRCLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS A64-24126

CF HYGIENE

ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION

JPRS-21975

N64-10386

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUCRINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR ICNIZATION JPRS-19067

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693

HYGIENE AND SANITATION IN USSR JPRS-26305

N64-28430

SATELLITE

CF BICSATELLITE
CF METEOROLOGICAL SATELLITE

CF SATELLITE INSTRUMENTATION CF SPACE VEHICLE

CF SPACECRAFT

REVIEW OF COSMIC RAY EFFECTS ON BICLOGICAL MATERIAL ON EARTH, IN AIR, AND IN SATELLITE

A64-80912

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN N64-30720

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN -HUMAN PERFORMANCE N64-30721

SATELLITE INSTRUMENTATION
DATA REDUCTION OF BIOLOGICAL INFORMATION DURING PROLONGED FLIGHT MISSIONS, NOTING CASE OF ELECTRCENCEPHALOGRAMS

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT 464-25580

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT

N64-11686

SATELLITE OBSERVATION

ENVIRONMENTAL EFFECTS ON HUMAN VISUAL CESERVATION OF SATELLITE FROM ANOTHER SATELLITE WHILE IN ORBITAL FLIGHT A64-18321

SCANN THE

SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR PHCTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS N64-13CC4

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN UCLA-12-521 N64-20672

SCATTERING

DIFFUSION

- ELECTRON SCATTERING
- LIGHT SCATTERING

SCHIZOPHRENIA

RERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT A64-80760

EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA **PATIENTS** N64-31460

SCIENCE /GEN/

SA SPACE SCIENCE CF ENVIRONMENTAL SCIENCE CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY JPRS-25506

GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND

CHEMISTRY JPRS-26991

N64-33957

SCIENTIST

TRAINING OF SCIENTISTS IN USSR

JPRS-27116

N64-33855

SCINTILLATION

S SCINTILLATION COUNTER

SCINTILLATION COUNTER

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64-N64-15216

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-N64-22858

SCOPOLAMINE

MOTION SICKNESS- EFFICIENCY OF LABORATORY TESTS OF DRUG TREATMENT A64-80151

ATROPINE AND SCOPGLAMINE EFFECTS ON BLOOD CIRCULATION AND HEART FUNCTION IN MAN

A64-80319

SCREENING TECHNIQUE
SCREENING TECHNIQUES, TRAINING STANDARDS, AND
SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND CANDIDATES N64-15105

SEA

S SEA WATER

SEA WATER

PORTABLE SOLAR STILL FOR RECOVERY OF POTABLE WATER
BY AIRCREW SURVIVORS AT SEA A64-81030

EXTRACTION OF DXYGEN FROM SEA WATER BY DIFFUSION THROUGH THIN PLASTIC MEMBRANES AD-437359 N64-248

N64-24807

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE REPT -- 3 N64-30696

SEASONAL VARIATION

SEASONAL VARIATIONS IN PULSE RATE DURING ERGCMETRIC WORK TEST OF SWEDISH AIR FORCE PILOTS A64-12991

SEASONAL VARIATION OF BLOOD AND PLASMA VOLUMES IN HEALTHY MEN IN FINLAND

SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS -PHYSIOLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MAMMAL

SEAT

SA EJECTION SEAT

BODY SUPPORT CHARACTERISTICS OF NET FABRIC SEAT CONFIGURATIONS FOR AEROSPACE VEHICLES, EVALUATED FROM ACCELERATION, IMPACT AND VIBRATION TESTS SAE PAPER 851C A64-20688

CHAIR ANGLES, DURATION OF SITTING, AND COMFORT RATINGS A64-81193

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY CEPE-1681 N64-26348

SEDIMENT

GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC ORGANIC MATTER IN METEORITES AND SEDIMENTS

BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC JPRS-23403

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES NASA-CR-58500 N64-29202 N64-29202

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY,

AND CRYSTALLIZATION OF TRIOSE PHOSPHATE

N64-32048

SEEBECK EFFECT S PELTIER EFFECT

SEEDING

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION,
ENVIRCHMENT EFFECTS ON GERMINATION, AND SEEDLING
GREWTH

NASA-CR-52635 N64-15895

SEIZURE S EPILEPSY

SELECTION
S PERSONNEL SELECTION

SELF-ADAPTIVE SYSTEM
SELF-LEARNING AS BASIC STEP IN DESIGN OF SELF-ADJUSTING SYSTEMS
N64-11039

SELF-CRGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING AND PERFORMANCE - INTERACTION BETWEEN MAN AND ADAPTIVE MACHINE N64-18841

SELF ACJUSTING SYSTEM WITH PATTERN

N64-24700

SEMICIRCULAR CANAL
VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO
HARMONIC STIMULATION OF THE HORIZONTAL
SEMICIRCULAR CANAL
A64-10257

SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION DURING WEIGHTLESSNESS, BY TIMING ROTATION OF CULLOGYRAL ILLUSION AND THE PERCEPTION OF ROTATION AFTER STIMULATION A64-13509

CTCLITHIC STIMULUS EFFECT ON DISORIENTATION AND TROUBLESCME ILLUSIONS IN HUMAN STUDIED, USING LINEAR ACCELERATION OR ORBITING WITHOUT ACCELERATION A64-25554

GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO DETERMINE TIME CORRELATION BETWEEN VESTIBULAR STIMULI STRENGTH AND VEGETATIVE REACTIONS

A64-25596

ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL SEMICIRCULAR CANALS BY ELECTRO- AND

SEMICIRCULAR CANALS BY ELECTRC- AND PHOTOELECTRONYSTAGMOGRAPHY A64-80373

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTCLITH, AND SEMICIRCULAR CANAL A64-80645

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS

SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL,
PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE
A64-80861

ROLE CF CTOLITHS IN CISORIENTATION DURING AND AFTER WEIGHTLESSNESS AND CHANGES IN LINEAR ACCELERATION A64-80924

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE N64-15540 N64-15540

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS -

SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS PHYSICLOGY
NASA-CR-59374
N64-33906

SENSING S HORIZON SENSING

SENSITIVITY
SA IMPACT SENSITIVITY
SA PAIN SENSITIVITY
SA RADIOSENSITIVITY
SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING

RADIATION BY RADICAL-REACTION INHIBITORS

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY
DETERMINATIONS N64~15035

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER

N64-15036

N64-12896

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS

N64-32778

464-10093

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782

SENSOR

SA OPTICAL SENSOR
METHOD FOR SYNCHRONIZED RECORDING OF THORAX
MOVEMENTS AND SOUND PARAMETERS DURING VOCAL
EXERCISE
A64-81C57

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH
RESOLUTION SENSOR IMAGERY
AMRL-TDR-64-29 N64-26960

SENSORY AID
PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE
THROUGH SENSORY ORGANS IN MAN
JPRS-19762 N64-1135.

SENSORY DEPRIVATION
CF CONFINEMENT
PHYSICAL EXERCISES REDUCE BEHAVIORAL AND
PHYSIOLOGICAL IMPAIRMENT DURING PROLONGED

PERCEPTUAL DEPRIVATION

VALUE OF AEROSPACE MEDICAL RESEARCH TO CLINICAL MEDICINE ILLUSTRATED BY CONSIDERATION OF EFFECTS OF ACCELERATION, WEIGHTLESSNESS, RADIATION AND SENSORIAL DEPRIVATIONS A64-11430

PAIN SENSITIVITY AS MEASURE OF SENSORY DEPRIVATION TOLERANCE A64-12936

DATA FROM ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR STUDIES AND PERSONAL REPORTS ON EFFECTS OF ISOLATION, SENSORY DEPRIVATION AND EXTREME HAZARD A64-12979

PSYCHOLOGICAL AND PHYSICLOGICAL ALTERATION OF LACK OF VISUAL, AUDITORY AND TACTILE STIMULATION IN SPACE FLIGHT A64-23766

PSYCHOPHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS, VIGILANCE AND SENSORY DEPRIVATION SIMULATED BY IMMERSION EXPERIMENTS A64-24400

PHYSIOLOGICAL EFFECTS OF SPACEFLIGHT INCLUDING LABYRINTHINE DISTURBANCE, SENSORY DEPRIVATION, CIRCULATORY IMPAIRMENT AND MUSCLE AND BONE ATROPHY A64-24404

PHYSIOLOGICAL AND PSYCHOLOGICAL EFFECTS OF ISOLATION AND CONFINEMENT ON HUMAN RELIABILITY A64-24977

PERCEPTUAL MOTOR REACTIONS AFTER ONE WEEK PERIOD
OF PERCEPTUAL DEPRIVATION A64-25346

SENSORY AND PERCEPTUAL DEPRIVATION EFFECTS ON BEHAVIORAL AND PHYSIOLOGICAL EFFECTS

LATENT PERIOD OF MOTOR RESPONSE OF MAN UNDER ISOLATION CONDITIONS NOTING ROLE OF ORIENTING REFLEX A64-25592

ISOLATION EFFECT ON HUMAN PERFORMANCE AND STABILITY OF DEVELOPED HABIT OF TRANSMITTING INFORMATION A64-25593

ADAPTION TO DESERT CONDITIONS - A PSYCHIATRIC SURVEY AMONG U.S. ARMY PERSONNEL IN THE LIBYAN SAHARA RELATING FINDINGS TO SENSORY DEPRIVATION A64-80018

NONDEPRIVATION FACTORS IN PRODUCTION OF SENSORY
DEPRIVATION EFFECTS- PSYCHOLOGY OF PANIC BUTTON
A64-80137

ISCLATION AND SENSORY DEPRIVATION PHENOMENA
RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION
OF BICLOGICAL RHYTHMS
A64-80146

SENSORY DEPRIVATION STUDY - REPORT ON KAYAK-ANGST AMENG ESKIME OF WEST GREENLAND A64-80215

HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS
SYSTEM FUNCTION DURING RELATIVE SENSORY
DEPRIVATION A64-80235

SENSORY DEPRIVATION AND SOCIAL ISOLATION - EFFECTS
ON PERFORMANCE OF UNSTRUCTURED COGNITIVE TASK

SENSORY DEPRIVATION - ANALYSIS OF ELEMENTS LEADING TO SYMPTOM FORMATION A64-80287

SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE
A64-80345

SENSORY DEPRIVATION - HYPOTHESES OF MENTAL DETERICRATION AND MENTAL FACILITATION

A64-80346

SENSORY CEPRIVATION STUDIES CONDUCTED AT PRINCETON REVIEWED IN DETAIL A64-80378

SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF EFFECTS ON HUMAN AND ANIMAL BEHAVIOR

A64-80382

PROBLEMS OF WEIGHTLESSNESS, VIGILANCE, AND SENSORY DEPRIVATION IN MANNED SPACE FLIGHT

A64-80484

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY RESTRICTION ON DOG A64-80493

SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL SENSATIONS IN PERCEPTUAL ISOLATION

A64-80510

PHYSICLCGICAL AND VERBAL STRESS RESPONSES IN TOTAL AND PARTIAL PERCEPTUAL ISOLATION

A64-80513

SENSORY DEPRIVATION AND BUTTON-PRESSING FOR TIME-CFF REWARD A64-80574

AUTOKINETIC ILLUSION - FREQUENCY AND DIRECTION OF MOVEMENT OF LIGHT STIMULUS RELATED TO SUGGESTION, EYE MCVEMENT, AND RELATIVE SENSORY DEPRIVATION A64-80576

LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN A64-80651

METHODOLOGICAL ARTIFACT DUE TO DIRECTIONS
IMPLICATED IN PRODUCTION OF SENSORY DEPRIVATION
EFFECTS
A64-80676

SENSORY DEPRIVATION AND LYSERGIC ACID DIETHYLAMIDE /LSD/ EFFECT-PHYSIOLOGICAL CONSIDERATIONS

A64-80678

VISUAL HALLUCINATIONS DURING SENSORY DEPRIVATION - PROBLEM OF CRITERIA

A64-80679

COGNITIVE STRUCTURING, FIELD DEPENDENCE-INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION A64-80727

SENSORY AND SLEEP DEPRIVATION - ROLE OF NEUROPHYSIOLOGICAL CORRELATES IN PRODUCTION OF PSYCHCLOGICAL DISTURBANCES

A64-80761

VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS A64-80799

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES
INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY
SENSATIONS
A64-80897

BUTTON-PRESSING FOR TIME-OFF REWARD DURING SENSORY DEPRIVATION RELATED TO SUBJECTIVE RATING OF WELL-BEING A64-81144

HALLUCINATION, ARCUSAL, AND RAPID EYE MOVEMENTS
DURING SENSORY DEPRIVATION A64-81212

ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY DEPRIVATION TR-9 N64-26053

SENSORY DISCRIMINATION
SA AUDITORY DISCRIMINATION
CONTINUOUS AND GUANTAL THEORIES OF SENSORY
DISCRIMINATION
66

DISTANCE PERCEPTION OF TWO AUDITORY SIGNALS, ONE EMITTED FROM HEADPHONE AND OTHER FROM NEARBY LOUDSPEAKER A64-25826

WEBER FRACTION EXPLORED AS FUNCTION OF PHYSICAL OR PERCEIVED SENSORY INPUT A64-80472

SENSORY PERCEPTION
CF KINESTHESIS
HUMAN SENSORY DISCRIMINABILITY MEASURED ON BASIS
OF UNBIASED WORD INTELLIGIBILITY TESTS, NOTING
HIGHER VALUES FOR EXPECTED WORDS THAN FOR

UNEXPECTED WORDS

A64-19519

SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD

STRENGTHS

A64-22818

SENSORY AND PERCEPTUAL CAPABILITIES IN RELATION TO TASKS PERFORMED DURING SPACE FLIGHT

A64-24619

A64-12939

RELATION OF PHYSICAL PROTECTION OF MAN TO ISOLATION AND DISORIENTATION DURING SPACE TRAVEL

EXPERIMENT TO DETERMINE ACCURACY WITH WHICH INDIVIDUALS PRODUCE ANGLES IN RANGE OF 15 TO 90 DEGREES WHEN GIVEN HORIZONTAL OR VERTICAL LINE OF REFERENCE A64-25345

HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING AUDITORY DETECTION, VISUAL DETECTION AND COMBINATION OF BOTH A64-26849

OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN RELATION TO COLD TOLERANCE A64-80107

TACTILE SENSITIVITY THRESHOLD OF FINGER IN RELATION TO SKIN TEMPERATURE A64-80120

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

SENSORY AND PERCEPTUAL RESPONSE TO SPACE FLIGHT STRESSES A64-80646

ROLE OF THYROID GLAND AND SENSE ORGANS IN ADAPTATION TO HYPOXIA A64-81272

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741

SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ORGANS - EYES, FINGERS, HANDS N64-25137

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION JPRS-25761

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSMESS

SENSORY INTERACTION AND OPERATOR PERFORMANCE
REACTION TO BISENSORY PRESENTATION OF INFORMATION
FPRC-1209/A/
N64-2976

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION,

NERVOUS SYSTEM, AND RADIATION SICKNESS JPRS-26725

N64-32776

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS

N64-32778

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF N64-32779 LIGHT IN MAN

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE N64-33761 JPRS-27192

SENSORY STIMULATION

DISORDER IN THE MOTOR-SENSORY LOOP CAUSES INSTABILITY IN HUMAN PLASTIC SYSTEMS OF 464-10090 COCRDINATION

REPETITIVE TURNING ON AND OFF OF REINFORCING BRAIN STIMULATION EXAMINED FOR LOCATION OF AVERSIVE A64-26013 NEURAL SYSTEMS

ELECTROENCEPHALOGRAPHIC RESPONSE TO TACTILE AND A64-80236 AUDITORY STIMULATION IN MAN

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS N64-11522

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION N64-11523

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION N64-11524

BICLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520

PROCESS OF CORRECTLY SIGNALLING LOCATION OF

STIMULUS TO CENTRAL NERVOUS SYSTEM N64-18833

SENSORY STIMULATION & CONDITIONED RESPONSE N64-22418

INDIVICUAL DIFFERENCES AS FACTORS IN RESPONSES GF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & N64-31459 OTHER PHYSIOLOGICAL CHANGES

SEPARATOR S FILTER

SEROTONIN

TESTS ON WHITE RATS TO INVESTIGATE RADIATION PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS A64-27581 INFLUENCED BY BIOGEN AMINES

ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM A64-80398

SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS INTOXICATED WITH TETRAETHYL LEAD A64-80404

GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-OXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN, AND PHYSICAL STRESS

SLEEP-WAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN N64-11685 LEVEL IN BLOOD OF ANIMALS

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS

OF RATS UCRL-11179

N64-25204

X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED N64-32583 REPT.-1

ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS AD-447846

SERUM

PROTEIN ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN JPRS-19936 N64-11220

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS - IMMUNOLOGY & RADIATION SICKNESS N64-11354

X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM UCRL-10873 N64-15242

RADIATION SICKNESS - PROTECTIVE EFFECT OF BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, & REGENERATION OF SCIATIC NERVE

JPRS-24704 N64-20827 SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS

N64-20946

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS N64-22862

SERVOCONTROL MYDELECTRIC POTENTIALS USED TO OPERATE SERVO BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER A64-80553

SEX FACTOR PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE AGE, AND SEX IN ADULT HUMAN A64-80051

MUSCLE LOADING AND ENDURANCE IN MALES AND FEMALES A64-80093

INSPIRED OXYGEN TENSION VARIATION AND ALVEOLAR-ARTERIAL OXYGEN TENSION DIFFERENCE IN SITTING AND SUPINE MALES AND FEMALES A64-80187

SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE A64-80345

PH OF FOREHEAD SWEAT AND SALIVA DURING PHYSICAL A64-80370 **EXERCISE**

MOTION PERCEPTION - STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, A64-80402 TIME, AND DISTANCE

ACCOMMODATION TABLES AND NORMAL VARIATIONS REEXAMINED IN RELATION TO AGE AND SEX

A64-80444

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE A64-80614 OF BOTH SEXES

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI INOCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE AND AT SEA LEVEL A64-806 A64-80616

PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH SEXES BY NOISE EXPOSUPE AND AGING

A64-80656

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS COMPARED TO MEN A64-80683

SEX DIFFERENCES IN REACTIONS TO DELAYED AUDITORY FEEDBACK A64-80704

HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN AND WOMEN DURING BENZENE POISONING AS AFFECTED BY FOLIC ACID AND CYSTEINE A64-80750

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY

A64-80779

CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND HEIGHT A64-80797

SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST ANXIETY SCALE A64-80936

PRIOR INSTRUCTIONS, TIME ORIENTATION, SEX, AND SKILL IN SCUBA DIVING AS RELATED TO TOLERATION OF SENSORY ISOLATION A64-80965

SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR DISPLACEMENT AND HELIUM DILUTION PROCEDURES

A64-B0994

HEART RATE AND DXYGEN CONSUMPTION OF HEALTHY HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION FROM REST TO EXERCISE IN RELATION TO EXERCISE TOLERANCE

A64-BIOO

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

A64-B1008

AXIAL LENGTH AND REFRACTIVE INDEX OF EMMETROPIC LIVING EYE IN MEN AND WOMEN A64-81074

ADULT PERCEPTION OF HORIZONTAL BY BOTH SEXES AS COMPARED TO CHILDREN A64-81136

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826 N64-23043

SHELTER

CF SURVIVAL
PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE
SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS
A64-80007

SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN SHELTER - ATMOSPHERE AND TEMPERATURE STUDIES USNRDL-TR-618 N64-12254

EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK OU-107 N64-20811

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED

UXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141

SHIELDING

CF SPACECRAFT SHIELDING
HAZARDS CONTROL - VARIOUS METHODS OF PROTECTION
FROM RADIATION, LASERS, & MERCURY VAPOR
UCRL-7571
N64-14880

SHIFT

S PHASE SHIFT

SHOCK

CF IMPACT
HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO
PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE &
OTHER PHYSIOLOGICAL CHANGES
M64-31459

SICKNESS

S DISEASE S RADIATION SICKNESS SIEVE

S MOLECULAR SIEVE

SIGHT

S BLINDNESS

SIGNA 7

RADIATION DOSIMETRY ABOARD MERCURY /MA-8/
SPACECRAFT
NASA-TN-D-1862
N64-28320

NOT-2032

N64-13872

SIGNAL

CF OPTICAL SIGNAL
CF SIGNAL DETECTION
CF SIGNAL DISCRIMINATOR
CF SIGNAL NOISE
CF SIGNAL RECEPTION
CF MARNING SIGNAL
PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL
MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN
PHYSIOLOGICAL MONITORING SYSTEM

SIGNAL DETECTION

AMRL-TDR-62-98/2/

DETECTION OF TONAL SIGNAL IN BACKGROUND OF GAUSSIAN NOISE, EXAMINING STATISTICS OF STIMULUS A64-18001

BANDPASS FILTERING EFFECTS ON LOUDNESS OF GATED AUDITORY SIGNALS, RELATIVE TO UNFILTERED SIGNALS, RELATING DETECTABILITY SCALE AND LOUDNESS-MATCHING DATA A64-19520

TASK PERFORMANCE MEASUREMENTS EXAMINING EFFECT OF INSERTED ARTIFICIAL SIGNALS AND RESPONSE COMPLEXITY ON VIGILANCE A64-2685

FORM RECOGNITION AT BRIEF DURATION AS FUNCTION OF ADAPTING FIELD AND INTERVAL BETWEEN STIMULATIONS

A64-B0070

SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION

A64-80078

AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT LOW SIGNAL FREQUENCY A64-80130

NOISE EFFECT ON DETECTION OF VISUAL SIGNALS
A64-80149

DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS UNDER DIFFERENT SCHEDULES A64-80201

BINAURAL HEARING UNDER INFLUENCE OF INTERFERING NOISE - CONTRIBUTION TO CENTRAL NERVOUS PROCESSING OF ACOUSTIC INFORMATION

A64-80363

REVIEW OF VIGILANCE STUDIES

A64-80377

VIGILANCE AS FUNCTION OF SIGNAL FREQUENCY AND FLASH RATE A64-80439

STEREOSCOPIC FACILITATION OF SIGNAL DETECTION DURING TARGET TRACKING A64-80577

VIGILANCE PERFORMANCE INFLUENCED BY THREE DIFFERENT TYPES OF KNOWLEDGE OF RESULTS

A64-80589

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION INPUT A64-80618

ALERTED EFFECTIVE THRESHOLD IN AUDITORY
VIGILANCE TASK
A64-80662

EYE MOVEMENTS RECORDED DURING VIGILANCE

A64-80795

WEBERS LAW AND NOISE - DISCRIMINATION OF BRIGHTNESS AND OTHER DIMENSIONS

A64-80810

VISUAL SIGNAL-FROM-NOISE DETECTION BY MUNKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND SODIUM PENTOBARBITAL A64-80906

VIGILANCE DECREMENT AS FUNCTION OF PRETEST A64-80938 EXPECTANCY

VISUAL MONITORING PERFORMANCE AS INFLUENCED BY SECONDARY TASK OF SIMPLE MENTAL ARITHMETIC A64-81141

CONSISTENCY OF AUDITORY DETECTION JUDGMENTS

A64-81203

VISUAL DETECTION OF STIMULI WITH NOVELTY ATTRIBUTE ON BACKGROUND OF FAMILIAR SYMBOLS A64-81206

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-N64-18588 ESD-TDR-64-174

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS FPRC-1209/8/ N64-29767

SIGNAL DISCRIMINATOR

MAINTENANCE OF VIGILANCE IN AN AUDITORY MONITORING TASK 464-80203

SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS N64-25235 RADC-TDR-64-145

COMPARISON OF BROADBAND NOISE AND CONTINUOUS SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS A64-21334

SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF INFORMATION THEORY

THRESHOLD SIGNAL TO NOISE RATIOS FOR FILTERED THERMAL NOISE SIGNAL PRESENTED IN THERMAL NOISE A64-16090 MASKER

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT

MODEL FOR INTERPRETING DATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF NOISE IN MASKING SIGNALS A64-27497

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS USAPRO-TRN-135 N64-21741

SIGNAL TRANSMISSION

INFORMATION RATE NECESSARY FOR ADEQUATE TRANSMISSION OF PITCH SIGNAL FROM SPOKEN MESSAGE A64-21731

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM N64-11704 SPACECRAFT

SILVER CHLORIDE

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIOACTIVE IODINE N64-30 N64-30036

INORGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN N64-30602 ANL-6887

SILVER IODIDE SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS FOR RADIDACTIVE IODINE N64-30 N64-30036

SIMICOR

S SIMULTANEOUS IMAGE CORRELATION /SIMICOR/

SIMULATED ALTITUDE RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL EXERCISE AT SIMULATED ALTITUDE A64-8 A64-80157

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA NASA-CR-55625

SIMULATION

SA ALTITUDE SIMULATION SA COMPUTER SIMULATION SA SIMULATED ALTITUDE

CF ACOUSTIC SIMULATION

CF ANALOG SIMULATION
CF BIOSIMULATION
CF ENVIRONMENT SIMULATION

CF FLIGHT SIMULATION CF SPACE SIMULATION

MOON ILLUSION TESTED UNDER SIMULATED CONDITIONS PROVIDING VARIETY OF VISUAL CUES

A64-80623

OUTER SPACE ENVIRONMENT EFFECT ON SIMULATION OF SPACE VEHICLES DURING TRAINING A64-81: A64-81222

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT N64-12340 SAM-TDR-63-75

ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS ASD-TDR-63-136 N64-15592

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT N64-16916 NASA-TN-D-2176

BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES USING AUSCULTATORY TECHNIQUES NASA-CR-56024

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY

SIMULATION OF CONTROLLED TETHERLINE OPERATIONS IN SPACE MP-1266

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION NADC-AC-6406 N64-28696

SIMULATOR

COCKPIT SIMULATOR

CONTROL SIMULATOR FLIGHT SIMULATOR

SPACE CABIN SIMULATOR SPACE SIMULATOR

TEST FACILITY

SIMULATOR TRAINING TRANSFER OF TRAINING FROM SIMULATED TO REAL CONTROL SITUATION A64-12933

ACCELERATION TOLERANCE AND PERFORMANCE AS RELATED TO SIMULATOR TRAINING OF ASTRONAUT A64-80666

PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR NASA-TN-D-2036 N64-12715

SIMULTANEOUS IMAGE CORRELATION /SIMICOR/ HYPOXIC EFFECT ON SIMULTANEOUS VISUAL CONTRAST IN MAN A64-80206

SINUS

CAROTID SINUS DEPRESSOR REFLEXES OF DOG DURING 464-81062 HYPOTHERMIA

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS -PHYSIOLOGY NASA-CR-59374 N64-33906

SINUSOID

HUMAN PERFORMANCE DURING SINUSCIDAL AND RANDOM

VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

SIZE

PARTICLE SIZE SIZE PERCEPTION

SIZE PERCEPTION
VARIATION OF VISUAL PERCEPTION OF PERCEIVED
FRONTOPARALLEL SIZE AND DEPTH WITH OBSERVATION DISTANCE A64-15170

THRESHOLD WIDTH OF OBJECT MOVING BEHIND SLIT DETERMINED FOR DIFFERENT SPEEDS

A64-20346

INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND PERCEIVED ABSOLUTE DISTANCE A64-80139

ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION A64-80141

SIZE CONSTANCY- FUNCTIONAL RELATION BETWEEN VISUALLY PERCEIVED SIZE AND DISTANCE

A64-80190

PERCEPTION OF RELATIVE SIZE EXAMINED AS SOLE STIMULUS FOR DISTANCE PERCEPTION

A64-80561

DEPTH PERCEPTION - EFFECTIVE DIFFERENCE IN INFLUENCE OF RELATIVE SIZE ON PERCEIVED RELATIVE DISTANCE A64-80794

CHANGES IN DISTANCE JUDGMENTS AS RELATED TO CORRECTED AND NONCORRECTED PRACTICE

A64-81137

SIZE CUE OPERATING IN VISUALLY PERCEIVED DISTANCE A64-81295

RELATIONSHIP BETWEEN APPARENT SIZE AND DISTANCE STUDIED UNDER CONDITION OF REDUCTION OF CUES A64-81298

MONOCULAR AND BINOCULAR COMPARISON OF APPARENT SIZE A64-81303

ADJACENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES

N64-23619

SKELFTON

SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES JPRS-21997 N64-10389

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-1 N64-12444

SKIN /BIOL/

CF CUTANEOUS PERCEPTION CF DERMATOLOGY SKIN ROLE DURING ADAPTATION TO ENVIRONMENTAL A64-80417

BIOLOGICAL AND MUTATIONAL EFFECTS OF COSMIC RADIATION ON HUMAN SKIN TISSUE A64-80443

MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT A64-80514

PROLONGED SOLAR RADIATION EFFECT ON MELANOCYTES OF HUMAN EPIDERMIS A64-80534

OXYGEN CONSUMPTION COLOR CHANGES IN HUMAN EPIDERMIS, AND EFFECTS OF PURE OXYGEN INHALATION MEASURED IN VIVO WITH CYCLOPS OXIMETER 464-81207

FLUID EXCHANGE ACROSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

A64-81244

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008

MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION JPRS-21776 N64-1026 N64-10207

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION N64-12784

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS RSIC-105

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION JPRS-22556 N64-14251

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION JPRS-23287 N64-15335

ELECTROPHYSIOLOGIC CHARACTERISTICS AND INTERPRETATION OF SKIN POTENTIALS SAM-TDR-63-95 N64-15570

DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS AMRL-TDR-64-13 N64-18932

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN AD-405777 N64-20445

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN N64-25383

DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS RK-4138-NIH

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS JPRS-26725 N64-32776

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS N64-32778

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF LIGHT IN MAN N64-32779

SKIN RESISTANCE

HEAT EFFECT AND AROUSAL EFFECT ON SWEATING AND ELECTRODERMAL RESPONSE OF HAND AND CHEST

BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MOTIVATION

TEMPERATURE EFFECT ON MEASURES OF ELECTRODERMAL ACTIVITY AND THEIR INTERRELATIONSHIP A64-80220

STRESS-RELATIONSHIP BETWEEN PHYSICLOGICAL AND PSYCHOLOGICAL RESPONSES A64-80361

EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA SAM-TDR-63-70 N64-32602

SKIN TEMPERATURE /BIOL/ CF TEMPERATURE CONTROL

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY A64-80113

TACTILE SENSITIVITY THRESHOLD OF FINGER IN RELATION TO SKIN TEMPERATURE A64-80120

HUMAN SKIN TEMPERATURE AND NONEVAPORATIVE HEAT EXCHANGE WITH THE ENVIRONMENT A64-80163

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS A64-80327

SKIN AND RECTAL TEMPERATURES AS RELATED TO CIRCULATORY DISTURBANCES A64-80405

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY

ELECTROENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE RESPIRATION, AND GALVANIC SKIN RESPONSE DURING SLEEP AFTER LONG WAKEFULNESS PERIOD

A64-81204

SLEEP

SA ELECTRONARCOSIS
CF HIBERNATION
ISOLATION AND SENSORY DEPRIVATION PHENOMENA
RELATEC TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION
OF BICLOGICAL RHYTHMS
A64-80146

PHYSICLOGY OF SLEEP-WAKEFULNESS CYCLE AND RELATED PHENOMENA A64-80186

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP CEPRIVATION AND EEG STAGE OF SLEEP

A64-80316

SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC FACTORS IN LOWER BRAIN STEM A64-80509

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS A64-80632

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONECEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND ELECTRONYSTAGMCGRAPHIC RECORDINGS

A64-80681

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS
RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT
A64-80724

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

FLCW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT

A64-80985

HEART RATE AND CXYGEN CONSUMPTION OF HEALTHY HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION FROM REST TO EXERCISE IN RELATION TO EXERCISE TOLERANCE

A64-81007

EVCKED RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA, AND SLEEP A64-81027

NONSPECIFIC ACCUSTIC RESPONSES IN RABBIT IN
RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND
AROUSAL
A64-81028

ELECTRCMYCGRAPHIC STUDY OF SPINAL REFLEXES
INDUCED BY ELECTRICAL STIMULATION OF MUSCLE
AFFERENTS CURING SLEEP AND WAKEFULNESS IN CAT
A64-81066

SPENTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON
OF CAT DURING SLEEP AND WAKEFULNESS AS
DETERMINED THROUGH ELECTROENCEPHALOGRAM
A64-8106

SLEEP-WAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF HAMSTER A64-81186

ELECTRCENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE RESPIRATION, AND GALVANIC SKIN RESPONSE DURING SLEEP AFTER LONG WAKEFULNESS PERIOD

A64-81204

ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF ESSENTIAL HYPERTENSION N64-10684

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRCNCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021 N64-11621 CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS N64-1632 N64-1632

204-CK-33003 NO4-1032

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS
IN SLEEP
NASA-CR-56908 N64-27395

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001
N64-33041

SLEEP DEPRIVATION OF WAKEFULNESS

AFTEREFFECT OF SLEEP DEPRIVATION ON VIGILANCE AND CHOICE SERIAL REACTION RELATED TO DISTURBED DIURNAL RHYTHM A64-12944

SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN ELECTROENCEPHALOGRAPHY A64-25557

SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION

A64-80078

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

A64-80316

STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS RESPONSIVE INDOLE SUBSTANCE A64-80675

PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT

A64-80760

SENSORY AND SLEEP DEPRIVATION - ROLE OF NEUROPHYSIOLOGICAL CORRELATES IN PRODUCTION OF PSYCHOLOGICAL DISTURBANCES A64-80761

BEHAVIOR IMPAIRMENT DUE TO STRESS - EXPERIMENT IN LONG-TERM PERFORMANCE OF 21 HOURS

A64-80798

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FORCE CREWS AND RECRUITS A64-80947

SLEEP DEPRIVATION EFFECT ON HEART RATE AND PERFORMANCE IN MAN A64-81114

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION A64-81153

ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY SLEEP DEPRIVATION A64-81154

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCF AMRL-TDR-64-63 N64-31827

SLUDGE

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS AAL-TDR-63-36 N64-32115

SLURRY PROPELLANT S PROPELLANT

SMALLPOX

SMALLPOX IMMUNITY SURVEY AT LARGE INTERNATIONAL AIRPORT A64-80097

 EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF SIGNAL SCURCE LOCATION

INTERCRANIAL PERCEPTION OF LATERAL POSITION OF BINAURAL TONE SOUND IMAGES IN PRESENCE OF INTERAURAL TIME DELAY AND AMPLITUDE DIFFERENCE A64-19517

TEMPORAL SUMMATION PROCEDURE USED TO DETERMINE BACKWARD MASKING AS FUNCTION OF TIME INTERVAL BETWEEN SIGNAL AND NOISE ONSET A64-19518

VIBROCARDIOGRAM VARIATIONS OVER PRECORDIUM AND SOUND TRANSMISSION RATE A64-80689

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCED PRESSURE A64-81323

SOUND WAVE

SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE FILTERING PROCESSES OF TRACHEAL OUTER WALL F-T-J-63-6

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS JPRS-26712 N64-32954

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS -RIBONUCLEIC ACID N64-32957

SPACE

- CISLUNAR SPACE
- INTERPLANETARY SPACE
- INTERSPACE
- NONEUCLIDIAN GEOMETRY

SPACE BIOLOGY

NONPREVALENCE OF EXTRATERRESTRIAL LIFE IN OUR SOLAR SYSTEM, URGING CONCENTRATION ON TERRESTRIAL LIFE

ULTRAHIGH VACUUM EFFECTS ON MICRODRGAMISMS

A64-18740

LIMONITE ENVIRONMENT MAY PROVIDE ECOLOGICAL BASIS FOR RESPIRATORY AND PHOTOSYNTHETIC MARTIAN ORGANISMS A64-18837

POTENTIAL CONTRIBUTIONS TO BIOLOGY FROM EXPERIMENTAL STUDIES IN SPACE - RADIATION EFFECT N64-10266

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL N64-10514

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670

POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING EXTRATERRESTRIAL LIFE

PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL

BICCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT

BICCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674

BLCOD CIRCULATION IN EARS OF DOGS AFTER SPACE **FLIGHT** N64-11675

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER

SPACE FLIGHT

N64-11676

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC DRGANS IN MICE

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS N64-11680

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT

N64-11681 INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &

DEVELOPMENT IN ACTINOMYCETES AND PLANTS N64-11682 INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING

COSMIC RADIATION ON SPRING ONION & NUTHER FLOWER SEEDS N64-11683

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT

N64-11684

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE N64-11689

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT N64-11690

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS N64-11691

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE N64-11695

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING N64-11696

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY

N64-11697

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT N64-11698

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT

N64-11702

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-1 N64-11703

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM N64-11704 SPACECRAFT

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY

SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT N64-11706

ELECTRICARDIOGRAPHIC METHODS AND APPLICATION TO N64-11707 DOG STUDY DURING SPACE FLIGHTS

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY N64-11709

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS N64-11710

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS N64-12393 JPRS-22585

SPACE BIOLOGY - ABSTRACTS OF SOVIET LITERATURE N64-12634

BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - ANNOTATED BIBLIOGRAPHY SB-63-20

STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH N64-15902 NASA-CR-55553

SPACE CABIN

SPACE CABIN ATMOSPHERE CONTAMINANTS EFFECT, PARTICULARLY OZONE, ON VISUAL PERCEPTION

464-10631

SPACECRAFT CABIN ARRANGEMENT EFFECTS ON ASTRONAUTS PSYCHIC AND PHYSICAL TONUS

CARBOHYDRATE SYNTHESIS IN SPACECRAFT CABIN BY FORMALDEHYDE POLYMERIZATION REACTION A64-25608

MANNED SPACE FLIGHT PROJECTS AND RESEARCH IN SPACE A64-80037

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES 464-80226

NOVEMENTS AND DISPERSION OF RESPIRED AIR OF IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT A64-80826

RATIO OF PURIFYING CIRCULATION FLOW TO BREATHING FLOW FOR MAINTAINING ACCEPTABLE CARBON DIOXIDE CONCENTRATION IN SPACE CABIN ATMOSPHERE RAE-TM-ME-273 NA4-13337

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN -AIR CONDITIONING SYSTEMS FTD-TT-62-1545/1

FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT N64-22506 SAM-TDR-64-9

FORMATION OF ARTIFICIAL ENVIRONMENT IN SPACESHIP N64-23739 CARTN

REGENERATION OF WATER IN SPACESHIP CABIN

ENVIRONMENT OF SPACESHIP CABIN OR ORBITAL STATION N64-23745

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN N64-23774 SPACESHIP CABIN

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE N64-24616

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS N64-28949

SPACE CABIN ATMOSPHERE CF CLOSED ECOLOGICAL SYSTEM GASEOUS REQUIREMENTS FOR MANNED SPACECRAFT A64-80479 ATMOSPHERE - A REVIEW

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN A64-80499

CARBON DIDXIDE MANAGEMENT IN SPACECRAFT ATMOSPHERES USING MOLECULAR SIEVES AND REDUCED A64-80536 **TEMPERATURE**

MONITORING TRACE CONTAMINANTS IN SIMULATED A64-80538 MANNED SPACECRAFT

PHYSIOLOGICAL STATE OF MAN DURING SPACE FLIGHT AS RELATED TO GASEOUS ENVIRONMENT AND PRESSURE LEVELS A64-80643

MOVEMENTS AND DISPERSION OF RESPIRED AIR OF IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT A64-80826

GAS CHROMATOGRAPHY FOR ANALYSIS OF PERMANENT AND VOLATILE ORGANIC GASES IN CLOSED CABIN ATMOSPHERES A64-80842

OXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND EFFECT ON BURNING RATE OF FABRICS

A64-80928

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCED PRESSURE A64-81323

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN N64-12321 SAM-TDR-63-52

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE N64-24616

SPACE CABIN ATMOSPHERES - PHYSICAL AND N64-30345 PHYSIOLOGICAL VARIABLES

SPACECRAFT ENVIRONMENTAL SYSTEMS

N64-30729

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, DXYGEN TOXICITY, AND DRUG

N64-31219 NASA-SP-47

SPACE CABIN SIMULATOR STEROID AND CATECHOLAMINE EXCRETION OF PILOTS A64-12938 IN SPACE CABIN SIMULATOR

CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN A64-19131 SIMULATOR CONFINEMENT

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED DAYGEN PARTIAL PRESSURE A64-22053 AND NITROGEN

GASEOUS REQUIREMENTS FOR MANNED SPACECRAFT A64-80479 ATMOSPHERE - A REVIEW

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES

CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN

MONITORING TRACE CONTAMINANTS IN SIMULATED MANNED SPACECRAFT A64-80538

BICMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATION OF SPACE FLIGHT A64-80554

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST
A64-80564

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS
SAM-TDR-62-110 N64-10558

BEHAVICRAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING MASA-TN-D-1973 N64-11548

POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN TWO-MAN SPACE CABIN SIMULATOR SAM-TDR-63-60 N64-12246

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN

SAM-TDR-64-3 N64-21595

SPACE CAPSULE

CF SPACECRAFT

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS

UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN

EXTRATERRESTRIAL SPACE CAPSULES

NASA-CR-53302

N6A-17766

VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TOCONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS

SPACE COMMUNICATION

SIMULTANEOUS SOUND TRANSMISSION THROUGH AIR AND BONE FOR REDUCING AMPLIFICATION REQUIREMENTS AND NOISE LEVELS IN SPACE COMMUNICATIONS

A64-16388

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCED PRESSURE A64-81323

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399

SPACE ENVIRCHMENT

CF EXTRATERRESTRIAL ENVIRONMENT
EVALUATION OF PSYCHOLOGICAL ASPECTS OF EXTENDED
MANNED SPACE FLIGHT
A64-10114

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH, EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE AND TCLERANCE A64-12985

MAN AND THE SPACE ENVIRONMENT WITH RESUME OF PRESENT KNOWLEDGE A64~14C92

ENUMERATION OF INTERACTIONS THAT MIGHT BE EXPECTED FROM CONSTITUENTS IN A SEALED ENVIRONMENTAL SYSTEM AIAA PAPER 63-258

AMERICAN AND SOVIET APPROACH TO MANNED SPACECRAFT COMPARED, NOTING LIFE SUPPORT PROBLEMS AND PROTECTION AGAINST SPACE ENVIRONMENT A64-20469

INTEGRATED HUMAN RESEARCH TO DETERMINE PERFORMANCE CAPABILITIES UNDER NORMAL AND ABNORMAL INTERNAL AND EXTERNAL ENVIRONMENTS

BICLOGICAL EFFECTS OF HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS IN RELATION TO SPACE TRAVEL A64-24398

BIOLOGICAL RHYTHMS DEFINED TO DETERMINE ALTERATION DUE TO EXTRATERRESTRIAL SPACE ENVIRONMENT

A64-2

A64-80011

PHYSIOLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL ENVIRONMENT A64-24613

PHYSIOLOGICAL EFFECTS AND CONSTITUENTS OF GASEOUS ENVIRONMENT IN SPACE TRAVEL A64-24615

POSSIBILITY OF LIFE ORIGINATING IN SPACE BASED ON STUDY OF ENVIRONMENTAL CONDITIONS WHICH LED TO LIFE ON EARTH A64-25261

DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION AND IMPACT ON PILOT EFFICIENCY A64-27026

PERSISTENCE OF GEOPHYSICALLY DEPENDENT BIOLOGICAL RHYTHMS IN CONTROLLED SPACE FLIGHT ENVIRONMENT
A64-28341

MANNED SPACE STATION FOR BIOLOGICAL AND ENGINEERING RESEARCH

MANNED SPACE FLIGHT PROJECTS AND RESEARCH IN SPACE FLIGHT ECOLOGY A64-80037

OUTER SPACE ENVIRONMENT EFFECT ON SIMULATION OF SPACE VEHICLES DURING TRAINING A64-81222

LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE DISPOSAL, OXYGEN PRODUCTION, AND FOOD SUPPLY A64-81223

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN N64-10146

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS

JPRS-21586 N64-10197

THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS
NASA-CR-55279 N64-1418

HYGIENIC PROBLEMS IN RADIOACTIVE CONTAMINATION OF

DUTER SPACE JPRS-23284 N64-15397

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS FTD-TT-62-1609/1 N64-16053

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY
THEORY N64-16353

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT SSD-TDR-64-1 N64-19184

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-50333 N64-22752

GENETIC STUDIES IN SPACE ENVIRONMENTS
NASA-CR-55359
N64-22767

BICLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINGID STUDIES

NASA-CR-50483 N64-22775
LIFE SUPPORT IN SPACE ENVIRONMENT

NASA-TM-X-51744 N64-22784

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-56524 N64-2278

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY
OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786

PERFORMANCE OF SEATED HUMAN BODY IN SPACE ENVIRONMENT N64-24343

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH

A64-20689

ORBITING STATION
NASA-CR-56021

NASA-RP-135

N64-25950

RESPIROMETER AND LIFE SUPPORT SYSTEM FOR POTATO SPECIMEN IN SPACE ENVIRONMENT NASA-CR-58945 N64-33189

SPACE EXPLORATION
ENVIRONMENTAL AND PHYSIOLOGICAL PROBLEMS
ENCOUNTERED BY MAN IN SPACE EXPLORATION

A64-12932

MAN AND MACHINE SYSTEM EVALUATION FOR SCIENTIFIC EXPLORATION OF SPACE A64-14990

COLLECTION OF PAPERS ON PHYSICLOGICAL PROBLEMS IN SPACE EXPLORATION A64-24612

BIOCHEMICAL CHARACTERISTICS OF LIFE ON MARS TO DEVELOP DESIGN OF MARTIAN BIOLOGICAL EXPERIMENTS A64-24951

SCIENTIFICALLY TRAINED ASTRONAUTS IMPORTANT FOR LUNAR AND PLANETARY EXPLORATION

A64-28343

N64-15843

MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE TRAVEL PROBLEMS WGLR-6/1963 N64-11863

LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE EXPLORATION MISSIONS

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN
CONQUEST OF SPACE N64-23751

SPAGE FLIGHT

CF PLANETARY SPACEFLIGHT

CF SUBCRBITAL FLIGHT

SPACECRAFT AND SATELLITE PROGRAMS REVIEWING RECENT
MAJOR FLIGHTS AND EMPHASIZING ADVANCES IN LIFE—
SUPPORT SYSTEMS

A64-10151

SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY SIMULATION METHODS AND BY ACTUAL METHODS WITH RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON SPACE-CRIENTATION FUNCTION OF THE LABYRINTH A64-11435

STEROID AND CATECHOLAMINE EXCRETION OF PILOTS
IN SPACE CABIN SIMULATOR A64-12938

PHYSICLCGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458

ISCLATION AND SENSORY DEPRIVATION PHENOMENA
RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION
OF BICLOGICAL RHYTHMS
A64-80146

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES
A64-80147

RADIATION FIELD WITHIN SPACE VEHICLES

A64-80173

VISUAL PROBLEMS OF SPACE FLIGHT AND EXPERIENCE OF RUSSIAN AND AMERICAN ASTRONAUTS A64-80278

THEORETICAL IMPLICATIONS OF RELATIVITY CN AGING - PHYSICLOGICAL PROCESSES IN SPACE TRAVELERS
A64-80350

SENSORY-PHYSIOLOGICAL PROBLEMS IN SPACE FLIGHT ARISING FROM STIMULATION OF VESTIBULAR APPARATUS A64-80351

NUTRITIONAL REQUIREMENTS IN SPACE TRAVEL

A64-80395

VISUAL PROBLEMS FACING ASTRONAUTS IN ORBITAL FLIGHT A64-80462

PHYSICLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT ON ANIMALS AND MEN - A REVIEW A64-80488 CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE, MACACA NEMESTRINA, DURING SPACE FLIGHT

A64-80544

HISTORY OF AIR RESCUE SERVICE AS RELATED TO CIVILIAN AND MILITARY PERSONNEL, EQUIPMENT RECOVERY, AND SPACE FLIGHT A64-80558

HISTORY OF AIR RESCUE SERVICE AND USE AND DEVELOPMENT OF DEVICES AND TECHNIQUES FOR AIR EVACUATION OF SICK AND WOUNDED - RESCUE IN SPACE FLIGHT A64-80597

EXPLORATION OF MOON - PHYSICAL CHARACTERISTICS OF MOON, LIFE SUPPORT SYSTEM IN ESTABLISHING MOON COLONY AND FLIGHT TO MOON A64-80665

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757

SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, MEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD JPRS-20168 N64-11134

PSYCHOLOGICAL AND PHYSICLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS
JPRS-20171 N64-11135

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT
NADC-MA-6308
N64-12256

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER NASA-CR-55189 N64-1318

BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - ANNOTATED BIBLIOGRAPHY SB-63-20 N64-1330

CYBERNETICS IN BICLOGY, MEDICINE, AND SPACE FLIGHT
JPRS-23749 N64-17244

HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT AMRL-TDR-64-3 N64-18041

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS AIAA PAPER-64-212 N64-21538

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

N64-21643

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT AND EFFECT OF WEIGHTLESSNESS ON HUMANS

N64-23639

BICLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS OF SPACE FLIGHT N64-23736

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

N64-23740

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

BIOLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM

N64-23752

PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT **ENVIRCNMENT** N64-23757

SPACE FLIGHT OF TWO U.S.S.R. ASTRONAUTS JPRS-25272

N64-25163

ASTRONAUT TRAINING FOR SPACE FLIGHT

N64-25164

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE N64-25166 FI IGHT

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING CRBITAL SPACE FLIGHT N64-25167

MEDICAL ASPECTS OF SPACE FLIGHT

N64-27071

PHYSICLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS -COSMIC RADIATION, WEIGHTLESSNESS, & OXYGEN SUPPLY JPRS-25844

RADIORICLEGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT AMRL-TCR-64-38 N64-29939

PHYSICLOGICAL REACTIONS OF ANIMALS DURING SPACE **FLIGHTS** JPRS-26994 N64-32796

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE - RACIATION HAZARD IN SPACE FLIGHT NASA-CR-59266 N64-33284

SPACE FLIGHT FEEDING

TECHNOLOGICAL PROBLEMS OF WATER AND FOOD SUPPLY IN MAKNED SPACE FLIGHT A64-80133

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

MANUALLY CPERATED PELLET FEEDER FOR PRIMATES IN SPACE FLIGHT A64-80188

SPACE FEEDING PROBLEMS SURVEYED

A64-80199

FUTURISTIC CONCEPT OF EXTRAORAL FEEDING FOR LONG RANGE SPACE FLIGHTS A64-80846

PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE N64-10264

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS CURING AEROSPACE FLIGHTS MR-1187-60 N64-16812

SPACE FLIGHT STRESS

PHYSICLOGICAL REACTIONS OF CATS DURING ROCKET **FLIGHT** A64-24259

PHYSICLOGICAL EFFECTS OF SPACEFLIGHT INCLUDING LABYRINTHINE DISTURBANCE, SENSORY DEPRIVATION, CIRCULATORY IMPAIRMENT AND MUSCLE AND BONE ATROPHY A64-24404

BOOK ON SPACE BIOLOGY AND AEROSPACE MEDICINE A64-25568

SPACE FLIGHT FACTORS IN SPACE BIOLOGY AND MEDICINE INCLUDING ACCELERATION, ISOLATION, TEMPERATURE FLUCTUATIONS AND PRESSURE GRADIENTS

A64-25569

BICLOGICAL EFFECTS OF PHYSICAL CONDITIONS IN SPACE FLIGHT INCLUDING RACIATION, VACUUM, TEMPERATURE, NOISE, VIBRATION, ACCELERATION, WEIGHTLESSNESS, FOCD AND ARTIFICIAL ATMOSPHERE A64-25570 BICLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEOPHYSICAL ROCKET AND HANNED SATELLITE OBSERVATIONS

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS INCLUDING SENSORY, MOTOR, VEGETATIVE AND HISTOMORPHOLOGICAL VARIATIONS A64-25572

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN A64-25574

PHYSIOLOGICAL INTERACTION OF VESTIBULAR, VISUAL AND PROPRIOCEPTIVE ANALYZERS DURING LONG SPACE A64-25575

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE A64-26380

HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF MCRAL DISCIPLINE IN WORKMANSHIP

BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT SYSTEMS A64-26917

HUMAN TOLERANCE TO SPACE FLIGHT STRESSES

A64-80105

VIBRATION STRESS REVIEWED WITH RESPECT TO BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES A64-80148

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES A64-80226

HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND METHODS OF IMPROVING TOLERANCE IN MAN A64-80393

BICASTRONAUTICS, PHYSIOLOGICAL PROBLEMS, TECHNOLOGICAL ASPECTS, SPACE FLIGHT OPERATIONS, AND PERSPECTIVES A64-80476

HUMAN TOLERANCE TO COMBINED SPACE FLIGHT STRESSES A64-80495

ADAPTATION TO SPACE FLIGHT CONDITIONS - EFFECTS AND COUNTERMEASURES TO WEIGHTLESSNESS AND OTHER PHYSICAL AND PSYCHOLOGICAL STRESSES

A64-80638

SENSORY AND PERCEPTUAL RESPONSE TO SPACE FLIGHT STRESSES A64-80646

SPACE FLIGHT TRAINING

CF FLIGHT TRAINING
DISORIENTATION INDUCED BY HALLUCINOGENIC DRUGS IN MACACA NEMESTRINA A64-14000

PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR FOR ASTRONAUT TRAINING SAE PAPER 866H A64-20850

MEDICAL PROBLEMS OF SPACE FLIGHT - TRAINING AND SELECTION OF ASTRONAUTS A64-80227

ROLE OF FLIGHT SURGEON IN SELECTION, TRAINING, AND CARE OF ASTRONAUTS

MEDICAL ASPECTS OF ASTRONAUT TRAINING AND ROLE OF FLIGHT SURGEON A64-80487

RESPONSE TO WEIGHTLESSNESS AS RELATED TO ASTRONAUT TRAINING AND SELECTION A64-80525

ISOLATION AND DISORIENTATION DURING SPACE FLIGHT

AS RELATED TO SELECTION, TRAINING, AND HUMAN ENGINEERING A64-80647

THERMAL ENVIRONMENT AND PHYSIOLOGICAL LIMITATIONS AS RELATED TO NEED FOR HEAT ACCLIMATIZATION IN ASTRONAUT TRAINING A64-80663

NODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR SPACE FOR FLIGHT TRAINING SIMULATION

A64-81220

CUTER SPACE ENVIRONMENT EFFECT ON SIMULATION OF SPACE VEHICLES DURING TRAINING A64-81222

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT ENVIRCHMENT JPRS-25/62 N64-31440

ONBOARC TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS MASA-TH-D-2162 N64-33080

RUSSIAN CCSMONAUT REENTERS SPACE FLIGHT TRAINING -WORKING DAY DESCRIPTION - PARACHUTE JUMPS FTD-TT-64-149/184 N64-33669

SPACE FOOD

FOCD PACKAGING AND HANDLING UNDER ZERO-G
CONDITIONS OF SPACE
A64-22654

BICCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN CN SPACE MISSION A64-24616

COMPOSITION AND FOOD VALUE OF ALGAE FOR USE IN SPACE FLIGHTS A64-80038

TECHNOLOGICAL PROBLEMS OF WATER AND FOOD SUPPLY IN MANNED SPACE FLIGHT A64-80133

SPACE FEEDING PROBLEMS SURVEYED

A64-80199

ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE TRAVEL A64-80208

NUTRITIONAL REQUIREMENTS IN SPACE TRAVEL

A64-80395

FOCD MANAGEMENT AND NUTRITION FOR MANNED SPACE STATICNS A64-80396

SPACE MENUS DEVELOPED FOR PROJECTS MERCURY AND GEMINI A64-80397

CONTINUOUS CULTURE TECHNIQUE FOR GROWTH OF ALGA, CHLORELLA PYRENOIDOSA 7-11-05 AS SOURCE OF SPACE FOOD A64-80466

MAN IN SPACE - FOOD, WATER, ENVIRONMENTAL
REQUIREMENTS, WASTE UTILIZATION AND LIFE SUPPORT
SYSTEMS A64-80788

NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED DIET FOR SPACE FLIGHT MISSION A64-80863

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE & FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TCR-63-72 N64-11461

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667

RRCBLEM CF SUPPLYING SPACECREW WITH FOOD OF ANIMAL CRIGIN N64-11672

HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT AMRL-TDR-64-38 N64-29939

SPACE MAINTENANCE

CF ORBITAL WORKER

HUMAN FACTORS FOR EXTRAVEHICULAR SPACE
ENVIRONMENT — HUMAN ADAPTIVE CAPACITY AND
NECESSARY EQUIPMENT

A64-80816

SPACE MISSION
LIFE SUPPORT SUBSYSTEMS CONSIDERING FOOD, WATER,
WASTE, ATMCSPHERIC AND THERMAL CONTROLS

A64-20257

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS AD-445253 N64-30712

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718

SPACE NAVIGATION S ASTRONAUTICS

SPACE PROBE
STERILIZATION OF SPACE PROBE COMPONENTS

NASA-CR-56474 N64-23019

STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-58284 N64-28228

SPACE PROGRAM

FLIGHT

S NASA PROGRAM
HUMAN FACTORS ENGINEERING AS APPLIED TO AEROSPACE
PROGRAM
A64-24820

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH N64-11516

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM

N64-30715

AIR FORCE MEDICAL SUPPORT OF SPACE PROGRAM
N64-30716

SPACE RADIATION
S GAMMA RADIATION
RADIATION EFFECTS ON BLOOD TISSUE DURING SPACE

ENERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY
TRAPPED RADIATION AS HAZARDS TO MANNED SPACE
TRAVEL A64-11457

ENVIRONMENTAL AND PHYSIOLOGICAL PROBLEMS ENCOUNTERED BY MAN IN SPACE EXPLORATION

A64-12932

DOSAGE LEVELS AND BIOLOGICAL EFFECT OF RADIATION HAZARDS FOR MANNED SPACE FLIGHT

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

A64-25585

RADIATION DOSES DUE TO VAN ALLEN BELTS, GALACTIC COSMIC RAYS AND SOLAR COSMIC RAYS FOR INTERPLANETARY FLIGHT A64-27129

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SOLAR RADIATION ENVIRONMENT OF INTERPLANETARY SPACE A64-80061

BIOS I RECOVERY VEHICLE DESIGN AND EXPERIMENTAL MISSION A64-80275

RELATIVE BIOLOGICAL EFFECTIVENESS OF RADIATION IN RELATION TO SPACE MEDICINE RESEARCH

A64-80277

SPACE RADIATION ROLE IN SYNTHESIS OF ORGANIC COMPOUNDS LEADING TO CREATION OF LIFE

A64-80448

DOSIMETRY OF RADIATION FIELDS IN SPACE AND RELATION TO MANNED SPACEFLIGHT A64-80481

SPACE RADIATION HAZARDS TO MAN AND MEANS OF PROTECTION A64-80648

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND PROBLEMS OF PROTECTION A64-80911

CORRELATION OF LINEAR ENERGY TRANSFER WITH RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE RADIATIONS NASA-CR-58289 N64-29573

SOLAR FLARES AND SPACE RADIATION

N64-30717

SPACE RACIATION PROTECTION IN SPACECRAFT

N64-30719

SPACE CABIN ATMOSPHERES - HIGH DXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY

N64-31219

SPACE SCIENCE TECHNIQUES AND EFFECTIVENESS OF CHEMICAL STERILIZATION IN SPACE RESEARCH

A64-24981

SPACE PSYCHOLOGY FTC-MT-63-68/18384

N64-14375

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY JPRS-25506 N64-28009

SPACE SIMULATION

CF ENVIRONMENT SIMULATION SIMULATION OF LUNAR GRAVITY, FOR PRELIMINARY TESTING OF MANNED LUNAR MISSION, SPACECRAFT AND INSTRUMENTATION A64-15204

HUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA AIAA PAPER 64-219

A64-18878

SPACE FLIGHT AND SIMULATION EXPERIMENT REQUIREMENTS FOR DETERMINING ASTRONAUT PHYSIOLOGY AND SURVIVAL IN NEAR EARTH ORBIT

SPACE FEEDING PROBLEMS SURVEYED

464-80199

PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE A64-80457

VIABILITY OF HICROORGANISMS IN SIMULATED SPACE NASA-CR-59092 N64-33099

SPACE SIMULATOR

IN FLIGHT ACCELERATION CONSIDERING APPLIED AND INERTIAL FORCES, HUMAN TOLERANCE, VIBRATION AND A64-24617

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON MICROERGANISMS

RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS ARTC-41 N64-27335

SPACE STATION

SA ORBITAL SPACE STATION CF MANNED CRBITAL LABORATORY /MOL/ PHYSICAL EFFECTS OF WOBBLE, STATIC AND DYNAMIC UNBALANCE, COCKING AND CREW MOVEMENTS ON ROTATING SPACE STATION ALAA PAPER 64-335 A64-20358

SPACE SUIT
CF PRESSURIZED SUIT
EMERGENCY LIFE SUSTAINING SYSTEM FOR SPACECRAFT A64-13997

RRCJECT APOLLO SPACE SUIT AND LIFE SUPPORT EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL INPUT AND SCURCES A64-18257

MERCURY PRESSURE SUIT AND SPACE SUIT DESIGN FOR PROJECT GEMINI, NOTING TEMPERATURE CONTROL BY VENTILATION DISTRIBUTION SYSTEM

A64-18995

INTEGRATED SPACE SUIT, SUIT LCGP AND BACKPACK SYSTEM FOR NORMAL AND EMERGENCY SPACECRAFT CPERATION

AIAA PAPER 64-214 A64-20487

TEST SCOPE FOR OPERATIONAL INTEGRITY OF SPACE SUIT MATERIALS A64-23246 HUMAN FACTORS FOR EXTRAVEHICULAR SPACE ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND PROTECTIVE CLOTHING N64-13453

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING N64-13459

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER AMRL-TDR-63-80 N64-13653

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION N64-15093

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION FTD-TT-64-134/18264

DONNING AND DOFFING OF SPACE SUIT IN WEIGHTLESS CONDITIONS

AMRL-TDR-64-32 N64-22382

SPACE SUIT - LIFE SUPPORT SYSTEM NASA-TT-F-8852

N64-22940

SPACE SYSTEMS ENGINEERING

SAFETY PROBLEMS IN NUCLEAR SPACE SYSTEMS ENGINEERING, INCLUDING STUDY OF SNAP AND NERVA A64-11918

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

N64-11808

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS N64-25823

HUMAN ENGINEERING CRITERIA FOR USE IN SPACE SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND REPAIR OF ADVANCED SPACE SYSTEMS NASA-CR-58575 N64-29557

HUMAN FACTORS INFORMATION REQUIREMENTS FOR SPACE SYSTEM DEVELOPMENT NASA-CR-59050 N64-33208

SPACE-TIME CONTINUUM

PERCEPTUAL THEORY OF RELATIVITY REGARDING SPACE AND TIME AS INSEPARABLE

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS

SPACE TOOL

HUMAN FACTORS FOR EXTRAVEHICULAR SPACE ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT

SPACE VEHICLE CF SATELLITE CF SPACECRAFT

ECOLOGICAL SYSTEMS IN SPACE VEHICLES CONTRASTED WITH THOSE IN PERMANENT OR SEMIPERMANENT LUNAR OR PLANETARY BASES A64-80486

CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE

SSD-TDR-64-95

SPACECRAFT

CF APOLLO SPACECRAFT CF LUNAR SPACECRAFT CF MANNED SPACECRAFT CF REENTRY VEHICLE

CF SATELLITE

CF SPACE VEHICLE
CF SPACECRAFT CONSTRUCTION MATERIAL
CF SPACECRAFT CONTAMINATION
CF SPACECRAFT ELECTRONIC EQUIPMENT

CF SPACECRAFT ENVIRONMENT
CF SPACECRAFT INSTRUMENTATION
CF SPACECRAFT SHIELDING

CF UNMANNED SPACECRAFT CF VOSTOK III SPACECRAFT
CF VOSTOK IV SPACECRAFT V SPACECRAFT CF VOSTOK V SPACECRAFT
CF VOSTOK VI SPACECRAFT CF VOSTOK SPACECRAFT VISUAL OBSERVATIONS BY PILOTS OF AMERICAN AND SOVIET SPACECRAFTS A64-A64-10625

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT AMRL-TDR-63-82

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS
AIAA PAPER-64-218 N64-2360 N64-23608

RACIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT N64-28320 NASA-TN-C-1862

SPACE RADIATION PROTECTION IN SPACECRAFT

N64-30719

SPACECRAFT COMMUNICATIONS SYSTEM
COMFORT PROBLEMS RELATED TO SPACECRAFT
COMMUNICATIONS EQUIPMENT AD-442828

N64-32377

SPACECRAFT COMPONENT CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION RROCEDURES N64-25040 SAM-TER-63-73

SPACECRAFT CONSTRUCTION MATERIAL INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS
OF SATELLITES DURING SPACE FLIGHT

SPACECRAFT CONTAMINATION COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN ENVIRONMENT

PREVENTION OF BIOLOGICAL CONTAMINATION ON EXTRATERRESTRIAL BODIES A64-18827

REVIEW OF BIOLOGICAL AND PHYSICAL FACTORS IN DRY A64-24979 HEAT STERILIZATION

STERILIZATION OF LUNAR AND PLANETARY SPACECRAFT TO AVOID CONTAMINATION BY TERRESTRIAL MICROORGANISMS A64-28456

SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON A64-80354 MICROORGANISMS

SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY SELF-STERILIZING FORMALDENTOE PAINT - INTERNAL STERILIZATION BY ETHLENE OXIDE A64-8 A64-80463

MICROBIOLOGICAL CONTAMINATION OF MANNED AND N64-24611 UNMANNED SPACECRAFT

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES N64-25040 SAM-TDR-63-73

DRY HEAT STERILIZATION OF SPACE PROBES -BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS

NASA-CR-58285 N64-28764

SPACECRAFT DESIGN IMPORTANCE OF PILOT VIEWPOINT AND EXPERIENCE IN MANNED SPACECRAFT DESIGN AND DEVELOPMENT 464-24713

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES SH-45905 N64-27338

SPACECRAFT ELECTRONIC EQUIPMENT
CYBERNETICS ROLE IN SPACE FLIGHT INCLUDING CONTROL
CIRCUITS FOR GUIDANCE AND ELECTRONIC EQUIPMENT AUTOMATION AND DEVELOPMENT A64-28379

SPACECRAFT ENVIRONMENT CF CLOSED ECOLOGICAL SYSTEM
METABOLIC CONSEQUENCES AND PHYSIOLOGICAL EFFECTS
OF EXTENDED SPACE MISSIONS FOR WHICH THERE IS NO CAPABILITY FOR RE-SUPPLY OR CREW ROTATION A64-10115

SPACECRAFT AND SATELLITE PROGRAMS REVIEWING RECENT MAJOR FLIGHTS AND EMPHASIZING ADVANCES IN LIFE-A64-10151 SUPPORT SYSTEMS

LIGHTING REQUIREMENTS OF GENERAL CREW STATIONS FOR A64-10630

SPACE CABIN ATMOSPHERE CONTAMINANTS EFFECT, PARTICULARLY OZONE, ON VISUAL PERCEPTION A64-10631

ATMOSPHERE CONSIDERATION FOR SUSTAINED SPACE FLIGHT NOTING USE OF AN INERT GAS FOR REGENERATING A64-11428 OXYGEN

BIOLOGICAL REGENERATION IN CONFINED ENVIRONMENT OF SPACECRAFT, EMPHASIZING CLOSED CIRCUIT SYSTEM FOR REGENERATING RESPIRATORY GASES DURING LONG SPACE 464-11432 JOURNEYS

LIFE SUPPORT SYSTEMS IN SPACE ENVIRONMENT EXAMINED, PROPOSING NORMAL SEA-LEVEL ENVIRONMENT FOR EARLY MANNED SPACE OPERATIONS

A64-11456

FOOD FOR ASTRONAUTS DURING SPACE FLIGHTS, NOTING PROBLEMS AND PECULIAR ASPECTS OF EATING AND DRINKING IN SPACE ENVIRONMENT A64-134 464-13449

ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS INVOLVED IN SELECTION AND VALIDATIONS OF ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND A64-13517 APOLLO MISSIONS

STORABLE PROPELLANT UTILIZATION EXTENDED TO INCLUDE ATMOSPHERE REPLENISHMENT, THERMAL CONTROL AND WATER AND POWER PRODUCTION AIAA PAPER 64-213

HIGHER HEAT CONDUCTIVITY RESULTING FROM SUBSTITUTION OF HELIUM FOR ATMOSPHERIC NITROGEN IN SPACESHIP CABINS A64-21118

OXYGEN MANAGEMENT, TOXICITY AND ENVIRONMENT SELECTION FOR MANNED SPACECRAFT

A64-21182

ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT A64-23200 LIFE SUPPORT SYSTEMS

HUMAN ADAPTABILITY LIMITATION TO VARIOUS ATMOSPHERIC ENVIRONMENTS WITH TOXIC TRACE CONTAMINANTS A64-24395

HUMAN THERMAL BALANCE, HEAT TOLERANCE AND PROTECTION IN ARTIFICIAL SPACECRAFT ENVIRONMENT A64-24396

PSYCHOPHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS, VIGILANCE AND SENSORY DEPRIVATION SIMULATED BY IMMERSION EXPERIMENTS A64-24400

LIFE SCIENCE RESEARCH REQUIRED TO ACHIEVE INTEGRATED MAN-MACHINE SYSTEMS A64-24401

CLOSED ENVIRONMENT LIFE SUPPORT SYSTEMS DEPENDENT ON PROPULSION SYSTEMS AND MISSION REQUIREMENTS A64-24402

OPERATION OF VESTIBULAR APPARATUS AND RELATED NERVE CENTERS UNDER CONDITIONS OF ZERO GRAVITY A64-24975

PHYSIOLOGICAL AND PSYCHOLOGICAL EFFECTS OF ISOLATION AND CONFINEMENT ON HUMAN RELIABILITY

SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS EXPOSURE TO CARBON DIOXIDE AND INCREASED OXYGEN

LIFE SUPPORT SYSTEMS FOR ARTIFICIAL ATMOSPHERES IN SPACECRAFT CABINS A64-25573

REUTILIZATION OF HUMAN WASTE MATERIALS IN SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

WATER REGENERATION METHODS FOR SPACECRAFT LIFE SUPPORT SYSTEMS A64-25577

SPACECRAFT CABIN ARRANGEMENT EFFECTS ON ASTRONAUTS
PSYCHIC AND PHYSICAL TONUS A64-25579

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION REQUIREMENTS A64-25589

ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT ENVIRONMENT WITH RESPECT TO WORK AND REST CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT TASKS A64-25591

ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS
A64-25607

LIFE SUPPORT MANAGEMENT WITHIN SPACECRAFT DURING EMERGENCY THAT MAY REQUIRE RESCUE

A64-27823

ENVIRONMENTAL CONTROL FOR SPACECRAFT INCLUDING CRYOGENIC GAS STORAGE, TEMPERATURE CONTROL, ATMOSPHERE CONTROL AND WATER MANAGEMENT A64-28087

RADIATION FIELD WITHIN SPACE VEHICLES

A64-80173

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES A64-80226

THIRST PREVENTION AND WATER RECOVERY FROM SEA WATER AND FROM URINE BY FREEZE-DRYING DURING PROLONGED SPACE FLIGHT A64-80550

FORMATION OF ARTIFICIAL ENVIRONMENT IN SPACESHIP CABIN N64-23739

ENVIRONMENT OF SPACESHIP CABIN OR ORBITAL STATION N64-23745

PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT ENVIRONMENT N64-23757

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS

N64-23768

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY -LISTENING FATIGUE AND COMFORT

SPACECRAFT INSTRUMENTATION
RADIOTELEMETRY IN BIOLOGICAL EXPERIMENTS ON
VOSTOK II AND VOSTOK IV FLIGHTS

A64-80639

SPACECRAFT RENDEZVOUS
VISUAL OBSERVATION BY AN ASTRONAUT OF ANOTHER
SPACE VEHICLE FOR SPACECRAFT RENDEZVOUS PURPOSES
A64-10626

VISUAL CAPABILITIES IN ACQUISITION, HOMING AND DOCKING PHASES OF SPACECRAFT RENDEZVOUS

A64-10634

ASTRONAUT ROLE IN SPACECRAFT ORBITAL RENDEZVOUS
A64-27814

SPACECRAFT SHIELDING
SOLAR FLARE RADIATION HAZARDS, DISCUSSING PARTICLE
FLUX CALCULATIONS AND RADIATION DOSAGE UNDER
VARIOUS SHIELDING THICKNESSES
A64-13477

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS
CONDUCTED DURING FLIGHTS OF VOSTOK III AND
VOSTOK IV
A64-23667

RADIATION SHIELDING DEPENDENT ON DOSIMETRY OF FLARE-PRODUCED AND VAN ALLEN BELT PROTON BEAMS A64-24397

RADIATION FIELD WITHIN SPACE VEHICLES

A64-80173

SPACECRAFT TELEVISION
CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR
REMOTE CONTROLLED LUNAR LANDING SIMULATION
A64-27808

SPACECREN
SPACECRAFT PILOT SELECTION AND TRAINING FOR
MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING
ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT
SCHOOL
A64-11340

PHYSICAL EFFECTS OF MOBBLE, STATIC AND DYNAMIC UNBALANCE, DOCKING AND CREW MOVEMENTS ON ROTATING SPACE STATION AIAA PAPER 64-335 A64-20358

INFECTION OF SPACECREW BY EXTRATERRESTRIAL MICRODRGANISMS A64-81026

STRESSES ON FLIGHT CREW IN SPACE FLIGHT

N64-11649

PROBLEM OF SUPPLYING SPACECREM WITH FOOD OF ANIMAL ORIGIN N64-11672

SPACECREW SELECTION AND TRAINING - LITERATURE SURVEY SID-63-707 N64-14423

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-14519

SELECTION OF SPACE CREWS FOR EXTENDED
JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853
N64-17536

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE
MISSIONS N64-30718

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720

SPATIAL ORIENTATION

PSYCHOLOGICAL EFFECTS OF SUBMARINE ENVIRONMENT ON HUMAN BEHAVIOR AND ADJUSTMENT POTENTIALITY OF PERSONNEL FOR EXTENDED SUBMERGED DUTY

A64-12977

DISORIENTATION INDUCED BY HALLUCINOGENIC DRUGS IN MACACA NEMESTRINA A64-14000

SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD STRENGTHS A64-22818

SCOTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED BODY POSITION A64-80140

ACCELERATION TOLERANCE, ACCELERATION PROTECTION, AND EFFECTS OF ACCELERATION ON VISION AND ORIENTATION A64-80143

RESPONSE OF OTOLITH ORGANS TO BODY TILT IN CAT
A64-80217

BLOOD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION A64-80271

SPATIAL ORIENTATION IN MAN VIA VISUAL, KINESTHETIC, LABYRINTHINE, AND CUTANEOUS SENSATIONS A64-80445

RESPONSE TO WEIGHTLESSNESS AS RELATED TO ASTRONAUT

TRAINING AND SELECTION IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL A64-80525 HEMISPHERES TO SPATIAL PERCEPTION GRAVITATIONAL STRESS AND PERCEPTION OF POSITION IN N64-25135 A64-80635 SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ROLE OF GRAVITY AND BODY POSITION IN SPATIAL ORGANS - EYES, FINGERS, HANDS N64-25137 ORIENTATION A64-80691 ROLE OF EYE MOVEMENTS IN SPATIAL VISION GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND N64-25138 PERCEPTION OF VERTICAL IN PRESENCE OF TILTED VISUAL FIELD A64-80703 CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION ROLE OF OTOLITHS IN DISORIENTATION DURING AND AFTER WEIGHTLESSNESS AND CHANGES IN LINEAR THRESHOLDS OF SPATIAL DISCRIMINATION BY HUMAN **ACCELERATION** A64-80924 N64-25142 SPATIOTEMPORAL RELATIONS IN AFTEREFEECTS OF FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND I-FIGURE ON CRITICAL FLICKER FREQUENCY PATHOLOGICAL SUBJECTS - ROLE OF SPEECH A64-80934 N64-25143 PENSACOLA SLOW ROTATION ROOM IN DISORIENTATION AND ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF MOTION SICKNESS STUDIES CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS A64-80976 OF OBJECTS N64-25144 PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED, AND OLD INDIVIDUALS OF SIMILAR NONVERBAL DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL INTELL IGENCE 464-81115 AGE CHILDERN N64-25145 ARCUSAL EFFECT ON FIELD DEPENDENCE ASSESSED BY PERCEPTION OF SIZE OF OBJECT IN SPATIAL ROD AND FRAME TEST UNDER QUIET AND NOISE ORIENTATION OF PRESCHOOL CHILDREN CONDITIONS 464-81142 N64-25146 STIMULUS CONTROL FOR BIRD ORIENTATION AND DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL NAVIGATION A64-81175 CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE N64-25147 SPATIAL ORIENTATION DURING SPACE TRAVEL AND USE OF HALLUCINGENS TO TRAIN ASTRONAUTS TO PERFORM UNDER CONDITIONS OF DISORIENTATION A64-81325 DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL CONCEPTS IN PRESCHOOL CHILDREN N64-25148 PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN SPATIAL ORIENTATION WITHIN ROTATING ROOM AS DETERMINED ON TILTING CHAIR AND ROD-AND-FRAME DURING NATURE DRAWING N64-25149 A64-81329 SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION THROUGH SIXTH GRADE STUDENTS N64-25150 IN RELATION TO MOTION SICKNESS, SPATIAL DISCRIENTATION, & BLACKOUT N64-13454 DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151 MECHANISMS OF SPATIAL ORIENTATION IN BATS JPRS-27285 N64-33974 PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE CHILDREN DURING FIELD SURVEYING EXERCISES SPATIAL PERCEPTION N64-25152 ACCOMMODATION AND CONVERGENCE CONSIDERED WITHIN CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS FUNCTION OF EXOPHORIA AND HYPEROPIA. N64-25154 DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN PROCESS OF FORMATION OF IMAGES OF GYMNASTIC SPACE PERCEPTION AND RELATION TO TIME BASED ON MINKOWSKI THEORY A64-80490 **EXERCISES** N64-25155 HYPERBOLIC SPACE STRUCTURE COMPARED WITH EUCLIDEAN INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL STRUCTURE OF VISUAL SPACE A64-80491 COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO FILE METAL N64-25156 COGNITIVE STRUCTURING, FIELD DEPENDENCE-INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION A64-8072 ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER A64-80727 N64-25157 APPARENT DISTANCE IN HORIZONTAL PLANE WITH PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE OF AIRCRAFT IN INSTRUMENT FLYING PERCEPTION A64-80969 N64-25158 PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND ROLE OF SPATIAL CONCEPTS IN MAP READING AND VISUAL AND SPATIAL PERCEPTION INTERPRETATION OF AERIAL PHOTOGRAPHS JPRS-18719 N64-25159 ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION TEACHING OF DRAWING IN TECHNICAL SCHOOLS OF MAN-MACHINE SYSTEMS N64-25160 JPRS-22300

PROCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS
OF DRAWING AND DESIGNING
N64-251 SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, N64-25161 LEARNING, AND WORK ACTIVITY
NASA-TT-F-164 N64-25132 SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY N64-25162 MECHANISM OF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES SPECIES N64-25133 CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL PROTECTION OF VANISHING SPECIES - INTERNATIONAL ANALYSIS CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN N64-25134 A-270

NASA-CR-59027

N64-33924

SPECTROGRAPHY

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTREGRAPHIC BEHAVIOR WITH MODEL

N64-10668

SPECTROMETER

SPECTROMETER FOR DIRECT MEASUREMENT OF WAVELENGTH DERIVATIVES OF SPECTRAL CURVES N64-17218

SPECTROMETRY

S MASS SPECTROMETRY

SPECTROPHOTOMETER

SPECTROPHOTOMETER ATTACHMENT FOR DETECTION OF EXTRATERRESTRIAL LIFE NASA-CR-52073

N64-10169

SPECTROPHOTOMETRIC DETERMINATION OF CARDIAC OUTPUT BY MEANS OF NEW DYE, PATENT BLUE A

SPECTRAL EVIDENCE OF SNOW IN MARTIAN ATMOSPHERE A64-81084

MICROSPEC TROPHOTOMETRY

N64-14740

SPECTROSCOPY

CF ELECTRON MICROSCOPY
BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES 1DDC-24939 N64-24561

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES

N64-24563

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE SPECTROSCOPY NASA-CR-59204

N64-33211

SPECTRUM

ABSORPTION SPECTRUM

ENERGY SPECTRUM

INFRARED SPECTRUM MICROWAVE SPECTRUM NEUTRON SPECTRUM

ULTRAVIOLET SPECTRUM

SPECTRUM ANALYSIS

SOUND SPECTRUM ANALYSIS, SYNTHETIC VONEL SPECTRUM ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH AD-424609 N64-12975

SEX DIFFERENCES IN REACTIONS TO DELAYED AUDITORY **EFFORACK** A64-80704

ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

PHYSICLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767

ACOUSTIC SPECIFICATION OF SPEECH AFCRL-64-263

N64-26499

EFFECT OF PROLONGED BREATHING OF HELIUM-OXYGEN ON SPEECH INTELLIGIBILITY AD-602545 N64-28298

SPEECH DISCRIMINATION

EFFECTS ON WORD INTELLIGIBILITY WHEN EXPOSED TO LOW FREQUENCY SINUSCIDAL VIBRATIONS WITHIN THE RANGE OF 6 CPS TO 20 CPS FOR SEMI-SUPINE TALKERS A64-10253

TACTUAL SPEECH COMMUNICATION IN RELATION TO SKIN SENSITIVITY AND CODING PARAMETERS

A64-17093

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT A64-20692

INTERPRETATION OF CONTINUOUS MESSAGE SWITCHED ALTERNATELY TO LEFT AND RIGHT EARS, EXAMINING DISTORTION OF TEMPORAL PATTERN 464-

DETERMINATION OF NUMBER AND NATURE OF BASIC VOICES PERCEIVED TO DIFFER FROM EACH OTHER BY TYPICAL

NONACOUSTIC MEASURES OF EVENTS ASSOCIATED WITH SPEAKING INCLUDING LIP READER, SENSING ELEMENT, THROAT AND NOSE MICROPHONES

A64-74 A64-24835

ELECTRIC RECORDING PROCEDURE FOR EXAMINING ARTICULATION MOTIONS IN SPEECH IN ESTABLISHMENT OF AUTOMATIC SPEECH RECOGNITION SYSTEM

A64-25601

BINAURAL HEARING UNDER INFLUENCE OF INTERFERING NOISE - CONTRIBUTION TO CENTRAL NERVOUS PROCESSING OF ACOUSTIC INFORMATION

A64-80363

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

SPEECH DISCRIMINATION TEST FOR AGING NAVAL AVIATORS PRESENTED TOGETHER WITH AIRCRAFT BACKGROUND NOISE

SOUND SPECTRUM ANALYSIS, SYNTHETIC VOWEL SPECTRUM ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH AD-424609 N64-12975

PHONETICS - STUDIES OF BRITISH, HUNGARIAN, AND GERMAN SPEECH AFCRL-64-86

PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION AMRL-TDR-63-94 N64-16805

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND NASA-CR-53501

COMPARISON OF GRAMMAR OF CHILDREN WITH FUNCTIONALLY DEVIANT AND NORMAL SPEECH

N64-25608

SFEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY STL-QPSR-3/1963/ N64-266 N64-26675

SPIN

ANGULAR MOMENTUM

ASTRONAUT TRAINING REQUIRING MEDICAL KNOWLEDGE AND PHYSICAL FITNESS DEVELOPED BY SCUBA DIVING AND CENTRIFUGE CONDITIONING A64-24403

SPINAL CORD

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE
AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI NASA-CR-58548 N64-28833

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID
MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE ORANGE DYE JPRS-22521 N64-12067

SPLEEN

CF ANATOMY CF BLOOD

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES

A64-80614

CYANDSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS N64-13004 UCLA-519

PURIFICATION AND IDENTIFICATION OF FACTOR FROM CALF SPLEEN WHICH PREVENTS RADIATION INJURIES AD-432125

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED N64-30244

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-30 N64-30247

SPORE

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT N64-12340 SAM-TDR-63-75

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS JPRS-22585

LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF GROUND SQUIRRELS AAL-TDR-63-4 N64-13630

EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES N64-13988

INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL TECH. NOTE-63-2 N64-19557

STABILITY

DYNAMIC STABILITY INSTABILITY

STABILITY AND CONTROL STABILITY AND CONTROL OF SYSTEM WITH LINEAR N64-24708 REGULATOR

STABILIZATION HIGH ALTITUDE MAN SEAT STABILIZATION STUDY N64-26348 CEPE-1681

BICLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY N64-10517 JPRS-21894

RADIATION PROTECTION STANDARDS TO REDUCE HAZARD OF RADIOACTIVE CONTAMINATION OF FOOD

STAR

STELLAR EVOLUTION

STELLAR REFRACTION

THIRST, HUNGER, ENVIRONMENTAL TEMPERATURE, AND PHYSICAL ACTIVITY AS RELATED TO BODY WATER A64-80547

WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM ACTIVITY IN RAT IN VARIOUS ACTIVITY MEASURING

DEVICES AT DIFFERENT ENVIRONMENTAL TEMPERATURES A64-80556

TOTAL FASTING EFFECT ON IODINE METABOLISM IN MAN 464-80607

SHORT-TERM FOOD DEPRIVATION EFFECTS ON REACTION A64-80609

LEUKOCYTE AND BONE MARROW PROLIFERATION CHANGES A64-80650 DURING STARVATION

STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS
RESPONSIVE INDOLE SUBSTANCE A64-8067 A64-80675

SUBARCTIC SURVIVAL-EFFECT OF SUPPLEMENTS OF FLUID AND SODIUM COMPOUNDS ON WATER LOSS DURING A64-80694

PROLONGED STARVATION EFFECT ON BLOOD PLASMA CONCENTRATION AND EXCRETION OF ADRENAL HORMONES A64-80767

INTERMITTENT FEEDING AND FASTING IN RATS OF DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO COLD A64-80 A64-80783

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND ADRENAL WEIGHT IN RAT A64-80785

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY

SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE IN URINARY RIBOFLAVIN OF HUMAN A64-8 A64-80876

TRIGLYCERIDE CONCENTRATION IN MYOCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN A64-80910 **GUINEA PIG**

RELATIONSHIPS BETWEEN FCOD DEPRIVATION DURATION, BLOOD SUGAR LEVEL, AND MEAL COMPOSITION AND TASTE A64-80944

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

STARVATION AND REFEEDING EFFECTS ON LIPOGENESIS AND FREE FATTY ACID METABOLISM IN OBESE AND NONCBESE HUMAN A64-81047

VARIATION IN PLASMA FREE FATTY ACIDS IN RESTED FASTING SUBJECTS A64-81173

PHYSIOLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER STRESS AND DEPRIVATION

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION TM-62-6

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS N64-30975 AAL-TDR-63-16

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION

INFLUENCE OF WATER INGESTION AND THIRST ON STARVATION METABOLISM N64-33391 NASA-TT-F-9106

STATIC ELECTRICITY ACCUMULATION OF STATIC ELECTRICITY ON ARCTIC CLOTHING WITH DECREASE IN TEMPERATURE AND HAZARD OF EXPLOSIVE GAS-AIR MIXTURES IGNITING BY ELECTROSTATIC DISCHARGE

STATIC PRESSURE STATIC VOLUME-PRESSURE CHARACTERISTICS OF RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN RELATION TO MUSCLE TONUS A6 A64-81000 STATION

GROUND STATION

PLANETARY BASE

SPACE STATION

STATISTICAL ANALYSIS S REGRESSION ANALYSIS

STATISTICAL DECISION THEORY APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS NASA-CR-58531 N64-28939

STATISTICS

CF BAYESIAN STATISTICS STATISTICAL ANALYSIS OF SUPPRESSING NECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS AMRL-TCR-63-110 N64-18599

STATISTICAL SOLUTION OF NONLINEAR SYSTEM

N64-24705

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY N64-30791

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING AMRI-TER-64-66 N64-31842

STEADY STATE S EQUILIBRIUM

STELLAR EVOLUTION

REQUIREMENTS FOR BIOLOGICAL EVOLUTION IN THE UNIVERSE, ON THE BASIS OF NATURE AND EVOLUTION OF A64-10216

THEORETICAL PREDICTIONS THAT 3 OUT OF 42 KNOWN STELLAR SYSTEMS MAY SUPPORT LIFE IF PLANETS HAVE EVOLVED FOR THESE STARS A64-102:

STELLAR REFRACTION

FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR REFRACTION

CF DEPTH PERCEPTION DEPTH EFFECT IN STEREOSCOPICALLY COMBINED LINES A64-19C08

STEREOSCOPIC FACILITATION OF SIGNAL DETECTION DURING TARGET TRACKING 464-80577

STEREOSCOPIC DEPTH PERCEPTION LOSS WITH LOCAL MONGCULAR SUPPRESSION 464-80959

STERECCEPTH FROM AFTERIMAGES

A64-81213

STERILIZATION

SA CHEMICAL STERILIZATION CF PURIFICATION REVIEW OF BIOLOGICAL AND PHYSICAL FACTORS IN DRY HEAT STERILIZATION A64-24979

TECHNIQUES AND EFFECTIVENESS OF CHEMICAL STERILIZATION IN SPACE RESEARCH

A64-24981

UNMANNED SPACECRAFT STERILIZATION AND NAVIGATION TO AVOID INTERPLANETARY CONTAMINATION

STERILIZATION OF LUNAR AND PLANETARY SPACECRAFT TO AVCID CONTAMINATION BY TERRESTRIAL MICROORGANISMS AND ORGANIC MATTER A64-28456

CHEMICAL STERILIZATION

N64-14372

STERILIZATION OF SPACE PROBE COMPONENTS NASA-CR-56474

N64-23C19

CONTRELLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PRCCEDURES

SAM-TDR-63-73

N64-25040

CHEMICAL AND RADIATION STERILIZING AGENTS BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS N64-26372

STERILIZATION OF SPACE PROBE COMPONENTS NASA-CR-58284

N64-28228

DRY HEAT STERILIZATION OF SPACE PROBES - BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS NASA-CR-58285 N64-28764

STEROID

SA CORTICOSTEROID CF CHOLESTEROL STEROID AND CATECHOLAMINE EXCRETION OF PILOTS

IN SPACE CABIN SIMULATOR A64-12938

ADRENCCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER STRESS CONDITIONS A64-12990

CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

A64-80722

ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES ARL-TDR-63-29

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63

CHANGES IN HUMAN 17-KETCSTEROID URINE EXCRETION N64-33452

STIMULATION

SA PHOTIC STIMULATION SA SENSORY STIMULATION STIMULATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY JPRS-18045 N64-10453

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12 N64-12515

AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC EQUIPMENT - CYBERNETICS N64-1253 N64-12530

ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART DISEASE JPRS-24083 N64-18400

STIMULATION DUE TO SELF-INDUCED MOVEMENT IN PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT N64-21727

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER

N64-23762

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS

N64-32777

STIMULUS

CF AUDITORY STIMULUS CF CALORIC STIMULUS
VISUAL AND AUDITORY STIMULI EFFECTS ON GASTROINTESTINAL MOTILITY

A64-80613

STIMULUS CONTROL FOR BIRD ORIENTATION AND NAVIGATION A64-81175

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR HSR-RR-62/9-MK-X N64-10447 HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO HORIZCHTAL POSITION HSR-RR-63/2-MK-X N64-10448

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS N64-23760

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY AMRL-TDR-64-29 N64-26960

PLETHYSMCGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLC STIMULUS IN NOSE CAVITY
N64-31104

TEST OF POTATIONAL STIMULIS ON NUMAN DESCRIPATIO

EFFECT CF ROTATIONAL STIMULUS ON HUMAN RESPIRATION T-84-J N64-33496

STOCHASTIC PROCESS

STCCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS

N64-12526

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS AMRL-TOR-63-111 N64-17508

STOMACH CE ARD

CF ABDCMEN
CF ANATOMY
ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL
ACTIVITY OF STOMACH DURING DIGESTION
JPRS-21925
N64-10850

STOMY METEORITE
MICROBIOLOGICAL ANALYSIS OF IRON AND STONE
METEORITES, NOTING ABILITY OF BACTERIA TO
PENETRATE INTO CENTRAL REGIONS
A64-18628

STCRABLE PROPELLANT
CF PROPELLANT
STCRABLE PROPELLANT UTILIZATION EXTENDED TO
INCLUDE ATMCSPHERE REPLENISHMENT, THERMAL CONTROL
AND WATER AND POWER PRODUCTION
AIAA PAPER 64-213
A64-18877

STORAGE

S AGING S DATA STORAGE

S PROPELLANT STORAGE

3 PROFEELANT STORP

S FAILURE

3 INTEGRE

STRAIN GAUGE
EQUILIBRIUM FUNCTION ANALYSIS THROUGH NEWLY
DEVELOPED STRAIN-GAGE-TYPE INSTRUMENTS
A64-80253

STRATEGY
HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY
AMRL-MEMC-P-54 N64-26852

STRATIGRAPHY
BICLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN
EQUATORIAL PACIFIC
JPRS-23403
N64-15730

STRATCSPHERE

CF ATMCSPHERE

EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN
STRATCSPHERE
NASA-CR-50698

N64-22769

STREAM S FREE STREAM

STRECKER SYNTHESIS

ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY

STRECKER SYNTHESIS, INCLUDING PRODUCTION OF

CPTICALLY ACTIVE L-ANALINE

A64-13306

STREPTOMYCIN

STREPTCHYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN

SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION

A64-28414

STRESS S FAILURE S PHOTOSTRESS S THERMAL STRESS

STRESS /BIOL/
CF PATHOLOGICAL EFFECT
HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
RESERVES OF PILOT
A64-27025

DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION AND IMPACT ON PILOT EFFICIENCY A64-27026

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED,
APPLYING CRITERION BASED ON PULSE BEAT AND BODY
TEMPERATURE A64-27027

HUMAN BEHAVIOR UNDER STRESS-COMBAT EXPERIENCE LEADING TO SOCIAL PSYCHIATRY A64-80017

STRESS REACTION EVOKED BY FORMALIN INJECTION -MANIFESTATION IN HIGHER NERVOUS ACTIVITY OF DOGS A64-80C41

PERFORMANCE OF ARITHMETIC TASK UNDER INTENSE NOISE A64-80077

ISOLATION AND SENSORY DEPRIVATION PHENOMENA RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION OF BIOLOGICAL RHYTHMS A64-80146

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK A64-80150

VIBRATION EFFECTS ON VISUAL PERFORMANCE

A64-80165

STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES A64-80361

PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL AND PARTIAL PERCEPTUAL ISOLATION

A64-80513

COLD AND RESTRICTION STRESS EFFECT ON ACID
MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE
TISSUE AND ENDOCRINE GLANCS IN RAT

A64-80514

A64-80514

GYNECOLOGICAL PROBLEMS AND STRESS IN AVIATION AND SPACE MEDICINE - REVIEW A64-80521

MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS STUDIES A64-80539

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS A64-80551

LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND, PROSTATE GLAND, AND WHITE BLOOD CELL

A64-80566

CATECHOLAMINE EXCRETION PATTERNS DURING VARIOUS PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL CONDITIONS A64-80652

STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCCRTICOSTERCIDS AND STRESS RESPONSIVE INDOLE SUBSTANCE A64-80675

CATECHOLAMINE EXCRETION AND PERFORMANCE DURING STRESS A64~80743

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION IN MAN A64-80952

THORACIC AND ABCOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-80997

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL

STRESS IN RATS

A64-81C87

CRIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK - INVESTIGATION OF CARDIOVASCULAR AND METABOLIC CORRELATES IN MAN

A64-81 C88

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

PHYSICLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER STRESS AND DEPRIVATION A64-81176 A64-81176

STRESSES ON FLIGHT CREW IN SPACE FLIGHT

N64-11649

ROLE CF FUNCTIONAL STRESS IN LOCALIZATION OF RACIATION SICKNESS JPRS-22586 N64-12576

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT EMBCLISM DURING DECOMPRESSION DV1-273 N64-12751

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ACAPTATION - EOSINOPHILE COUNT IN BLCOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA

ERRCR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS

HUMAN INFORMATION PROCESSING UNDER TASK STRESS ESD-TDR-63-657 N64-16088

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SCUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND NASA-CR-53501

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISCLATION FROM EXTERNAL STIMULI JPRS-24961 N64-21288

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION TM-62-6

N64-21553

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTC-TT-63-1015/16264 N64-21938

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES AMRL-TER-64-23

INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED STRESS REPT.-1129

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE JPRS-25130

LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER N64-23763

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE AD-429526

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-31344

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENOCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL RECRGANIZATION OF RAT ADRENAL GLAND

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION APR-2 N64-32144 CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

STRESS TENSOR
S MINKOWSKI THEORY

STRONTIUM 90
DEGREE OF RETENTION IN MINIATURE SWINE OF INGESTED AND INTRAVENOUSLY INJECTED RADIONUCLIDES USED IN SNAP /SYSTEM FOR NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES JPRS-21997

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS UR-635

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON JPRS-22295 N64-12442

CALCIUM AND PHOSPHORUS CIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-1

FALLOUT - RADIONUCLIDE LEVELS IN MILK. TAP WATER. & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE HASL-135 N64-12909

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING COCKING OF BONES, MEAT, POTATOES, AND CABBAGE N64-18114

STRONTIUM 90 TOXICITY IN RAT EMBRYO UR-639

N64-18348

RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE UR-642

EFFECT OF STRONTIUM 90 AND RADIUM 226 ON BEAGLE UCD-472-110 N64-26043

STRUCTURE

SA MEMBRANE STRUCTURE SA MICROSTRUCTURE SA MOLECULAR STRUCTURE STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY A64-80851

LOGIC SYSTEMS - THEORY CF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR ESD-TDR-64-193 N64-21533

SUBGRAVITY

SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY STALL FLIGHT FROZENS OF SUBJECTS AND BY ACTUAL METHODS WITH RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON SPACE-ORIENTATION FUNCTION OF THE LABYRINTH A64-11435

WEIGHTLESSNESS AND SUBGRAVITY EFFECT ON PHYSIOLOGICAL SYSTEMS PARTICULARLY MUSCULO~ SKELETAL, CARDIOVASCULAR AND EQUILIBRIUM SENSES A64-24618

ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND NEIGHTLESSNESS ON THE CARDIOVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND NEIGHTLESSNESS

A64-80125

PHYSIOLOGIC AND PSYCHOLOGIC EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION

A64-80174

BIGS I RECOVERY VEHICLE DESIGN AND EXPERIMENTAL A64-80275 MISSION

SUBATMCSPHERIC EFFECT AND VENOUS PRESSURE ON BLOOD FLOW IN HUMAN FOREARM AND DIGIT

A64-81239

SUBLIMINAL STIMULUS

FORM RECOGNITION AT BRIEF DURATION AS FUNCTION OF ADAPTING FIELD AND INTERVAL BETWEEN STIMULATIONS

SUBLIMINAL PERCEPTION - LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY A64-80571

SA NUCLEAR SUBMARINE ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE NRL-6074 N64-19393

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE N64-19407

EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE AND SPACECRAFT EQUIPMENT

CF IMMERSION CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER CEATH BY ELECTRIC TRAUMA JPRS-18855

BICMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH STUDIES OF F-105 PILOTS A64-80094 A64-80094

PHYSICAL CONSTANTS OF VERMICULITE, PENDSHAMOTE, CERAMSITE AND PERLITE SUBSTRATES FOR CLOSED ECOLOGICAL SYSTEMS A64-25

CHARACTERISTICS OF ARTIFICIAL SUBSTRATES FOR USE IN CLOSEC ECOLOGICAL SYSTEMS N64-2375

SUBJECTIVE EVALUATION OF DISCOMFORT CAUSED BY DC-8
AND CARAVELLE AIRCRAFT NOISE A64-80673

SUGAR

S POLYSACCHARIDE

SUGGESTION

SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL SENSATIONS IN PERCEPTUAL ISCLATION A64-80510

AUTOKINETIC ILLUSION - FREQUENCY AND DIRECTION CF MOVEMENT OF LIGHT STIMULUS RELATED TO SUGGESTION, EYE MOVEMENT, AND RELATIVE SENSORY DEPRIVATION

SUGGESTION - INFLUENCE OF INSTRUCTION ON PERCEPTION OF AUTOKINETIC EFFECT

A64-80617

TECHNIQUE FOR CONTROLLING SUGGESTION EFFECT DURING PERFORMANCE OF VISUAL TASK A64-81215

SUIT

PRESSURIZED SUIT

SPACE SUIT

SULFANILAMIDE

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508

SULFATE

CF AMPHETAMINE SULFATE CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE SULFATE IN RATS EXPOSED TO DXYGEN UNDER PRESSURE A64-80283

SULFATE REDUCTION BY BACTERIA UCRL-10966

N64-11987

SULFIDE

CARBON DISULFIDE COPPER SULFIDE

HYDROGEN SULFIDE

SULFITE

SODIUM SULFITE

BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES JPRS-22672

SULFUR COMPOUND

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS

N64-10854

ANTIRADIATION ACTIVITY OF SULFUR AMINO ACID N64-12797 COMPOUNDS ON ANIMAL TISSUE

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES

PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR PHOTOSYNTHESIZING BACTERIA JPRS-24319 N64-18975

SULFUR OXIDE

SOZ ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS RELATED TO CONCENTRATION AND BREATHING PHASE A64-80963

SUNSPOT

S SOLAR FLARE

SUPERCONDUCTIVITY S ELECTRIC CONDUCTIVITY

SUPEROXIDES FOR OXYGEN PRODUCTION AND CARBON DIOXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS A64-80831

SUPERSONIC AIRCRAFT

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS

SUPERSONIC TRANSPORT
PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN SELECTION OF FLYING PERSONNEL ASSIGNED TO SUPERSONIC AND HYPERSONIC TRANSPORT AIRCRAFT

HUMAN ENGINEERING FACTORS AND LIMITATIONS APPLIED AT INITIAL DESIGN STAGES OF SUPERSONIC TRANSPORT A64-16438

SUPERSONIC TRANSPORT DESIGN WITH REGARD TO BICENGINEERING REQUIREMENTS FOR DISPLAY AND CONTROL SYSTEMS A64-24717

IONIZING RADIATION OPERATIONAL HAZARDS OF SUPERSONIC TRANSPORT A64-25786

PILOTED SIMULATOR STUDIES OF LOW-SPEED LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC TRANSPORT AIRCRAFT N64-1 N64-10909

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS NASA-TN-D-2251 N64-17993

S POWER SUPPLY

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND N64-27098 TR-20

SUPPORT INTERFERENCE
IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON
PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

. SUPRORT SYSTEM S LIFE SUPPORT SYSTEM

SUPPRESSOR

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION UCRL-11191 N64-17707

SURFACE

- PLANETARY SURFACE
- SURFACE COOLING SURFACE GEOMETRY SURFACE WAVE

SURFACE COOLING

EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISCTHERMAL AREA SAM-TCR-63-70 N64-32 N64-32602

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-31511

SURFACE WAVE

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM SURFACE WAVE N64-13575

SURGERY

INTERVERTEBRAL CISK DISEASE IN FLYING PERSONNEL A64-13994

SURGERY FOR MASSIVE UPPER GASTROINTESTINAL HEMORRHAGE IN FLYING PERSONNEL A64-80869

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM. HYPERTENSION, AND THERAPEUTIC UNDERWEAR JPRS-17498 N64-10683

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY TEXTROOK

JPRS-19278

N64-11066

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY SA#-TOR-63-31

CLINICAL RADICLOGY RELATION TO SURGERY AND STUDIES OF ORGANS AND TISSUES JPRS-23317 N64-15336

SURGICAL TREATMENT OF BURN INJURIES JPRS-23933

N64-18398

SURVIVAL

CF LIFE SUPPORT SYSTEM CF SHELTER SURVIVAL FOLLOWING CONTROLLED AIRCRAFT CRASHES A64-13996

PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS A64-80007

PARACHUTING HISTORY

464-80145

PHYSICLOGICAL EFFECT OF HIGHLY CXYGENATED ENVIRONMENT AND SURVIVAL IN MOUSE

464-80193

HISTORY OF ESCAPE SYSTEM DEVELOPMENT FOR AIR, SEA, AND SPACE USE A64-80198

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN A64-80499

AIR FORCE AIRCRAFT ACCIDENTS RESULTING IN INJURIES AND FATALITIES - RECOMMENDATIONS FOR SURVIVAL A64-80503

COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE OF BOTH SEXES A64-80614

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI INOCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE AND AT SEA LEVEL A64-80616 SUBARCTIC SURVIVAL-EFFECT OF SUPPLEMENTS OF FLUID AND SODIUM COMPOUNDS ON WATER LOSS DURING STARVATION

PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS A64-80814

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPIO DECOMPRESSION A64-808: A64-80834

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD A64-80927

PORTABLE SOLAR STILL FOR RECOVERY OF POTABLE WATER BY AIRCREW SURVIVORS AT SEA A64-81030

BLOOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE CAR I-63-15

AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS AGARDOGRAPH-52

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF N64-13507

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL **ENVIRONMENT** NASA-CR-53106 N64-16745

SURVIVAL OF MICE IN ABSENCE OF INERT GAS N64-17953

BACTERIAL SURVIVAL IN SIMULATED MARTIAN **ENVIRONMENT**

N64-22759

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN **ENVIRONMENT** N64-29559

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBING RAT REPT.-5 N64-29583

SUSPENSION

S SOLID SUSPENSION

SWEATING

HEAT EFFECT AND ARDUSAL EFFECT ON SWEATING AND ELECTRODERMAL RESPONSE OF HAND AND CHEST

VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX A64-80069

INSENSIBLE WEIGHT LOSS OF CLOTHED RESTING SUBJECTS IN COMFORT ZONE TEMPERATURES A64-80118

CARBON DIOXIDE INHALATION AND SWEATING DURING EXPOSURE TO DIFFERENT TEMPERATURES IN ENVIRONMENTAL CHAMBER A64-80171

PH CF FCREHEAD SWEAT AND SALIVA DURING PHYSICAL EXERCISE A64-80370

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES A64-80 464-80697

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED

TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS

A64-80771

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE 464-80882

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN REPT.-280 N64-23896

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS N64-29846 CARI-63-25

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS ERL-8-C009-622 N64-28916

SWITCHING FUNCTION

AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION

N64-24706

SYMPATHETIC NERVOUS SYSTEM

ORTHOSTATIC TOLERANCE LOSS IN REDUCED GRAVITY ENVIRONMENT, OBSERVING CHANGES IN BLOOD VOLUME CIRCULATION AND NEUROADRENERGIC SYMPATHETIC NERVOUS SYSTEM

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACID-BASE BALANCE

464-80823

SYNAPSE

ANALOG COMPUTER SIMULATION OF A NEURAL ELEMENT, USING LOCUS CONCEPT WITH EMPHASIS ON SYNAPTIC **FUNCTIONS**

DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM N64-10595 JPRS-21415

SYNCHROCYCLOTRON

NEADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND NEAR BEAM ZONES NASA-TT-F-9136 N64-33402

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION JPRS-24606 N64-21826

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY OF VOCAL CORDS N64-30394

SYNCHROTRON

RADIATION THERAPY, SYNCHROTRON OPERATION, RADIOBIOLOGY, & RADIATION GENETICS STUDIES N64-13133 UCSE-23

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

SYNTHESIS

SA NUCLEOSYNTHESIS SA PHOTOSYNTHESIS
CHEMOSYNTHETIC GAS EXCHANGE SYSTEM FOR LONG DURATION MANNED SPACE FLIGHT

A64-80262

N64-12146

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES

N64-12001

ANTIHYPERTENSIVE DRUG SYNTHESIS

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE

PRIMITIVE EARTH CONDITIONS N64-13168

SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS N64-16098 AD-430401

MECHANISM OF ELEMENTARY BIOSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER NASA-CR-55562 N64-16322

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS

N64-18330

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO N64-18334 JPRS-23944

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS NASA-CR-56293 N64-22470

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS BL-86

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES FTD-TT-63-1052/182 N64-23659

RCLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660

NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS AND ABIOGENESIS OF NEURINES, PYRIMIDINES, PENTOSRIBOSE AND DEOXYRIBOSE

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE NASA-TT-F-9146 N64-33407

SYNTHETIC RESIN

CF POLYMETHYL METHACRYLATE
CF POLYVINYL ALCOHOL

INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM FUMES FROM FLUOROCARBON RESIN PYROLYSIS

464-22065

SYSTEM

ADAPTIVE CONTROL SYSTEM
CARDIOVASCULAR SYSTEM
CIRCULATORY SYSTEM
CLOSED LOOP SYSTEM
CODING SYSTEM
COMMUNICATION SYSTEM
DISPLAY SYSTEM

ECOLOGICAL SYSTEM

LINEAR SYSTEM

MAN-MACHINE SYSTEM

MISSILE SYSTEM NERVOUS SYSTEM

REPRODUCTIVE SYSTEM

RESPIRATORY SYSTEM

SELF-ADAPTIVE SYSTEM

VISUAL SYSTEM WEAPON SYSTEM

SYSTEM DESIGN

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT, HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN

A64-80688

SYSTEM FAILURE PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE AIAA PAPER-64-222 N64-23609

SYSTEM FOR NUCLEAR AUXILIARY POWER /SNAP/ PROGRAM SAFETY PROBLEMS IN NUCLEAR SPACE SYSTEMS ENGINEERING, INCLUDING STUDY OF SNAP AND NERVA **PRCJECTS**

A64-11918

DEGREE OF RETENTION IN MINIATURE SWINE OF INGESTED AND INTRAVENOUSLY INJECTED RADIONUCLIDES USED IN SNAP /SYSTEM FOR NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

SYSTEMS ANALYSIS

CONTROL SYSTEM OF EYE IN TARGET TRACKING
INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL
IMAGE MOTION SERVING AS FEEDBACK

A64-25747

FAULT ISCLATION PRESENTATION AMRL-TCR-64-57

N64-31944

SYSTEMS DESIGN

HUMAN FACTORS IN DESIGNING MORE RELIABLE SYSTEMS. EMPHASIZING THAT HUMAN ERROR IS DUE PRIMARILY TO INAPPROPRIATE DESIGN

MAN-MACHINE INTERACTION MODELS USED TO SHORTEN RRELIMINARY SYSTEM DESIGN A64-2 A64-24845

SYSTEMS ENGINEERING

SYSTEMS ANALYSIS SYSTEMS DESIGN

T-33 AIRCRAFT

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIGNARY SIMULATION NADC-AC-6406 N64-28696

TACTILE DISCRIMINATION

CF CUTANEOUS PERCEPTION EXERCISE AND SPACE THRESHOLD OF THE TACTILE DIFFERENTION A64-80192

PERCEPTUAL SPEED IN RELATION TO QUANTA CF SIMULTANEOUSLY PRESENTED MATERIAL IN VISUAL OR TACTILE TASKS 464-80655

EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES 464-80746

APPARENT DISTANCE IN HORIZONTAL PLANE WITH TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE PERCEPTION A64-80969

PSYCHOPHYSICAL SCALES FOR KINESTHETIC WIDTH

APPARATUS FOR MEASURING TACTILE DISCRIMINATION 464-81304

APPARATUS FOR MEASURING KINESTHETIC JUDGMENTS A64-81305

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS

N64-32778

TACTILE SENSATION

NUMBER OF CODE SIGNALS AFFECT LEARNING TIME FOR TACTILE COMMUNICATION A64-16199

TACTUAL SPEECH COMMUNICATION IN RELATION TO SKIN SENSITIVITY AND CODING PARAMETERS

A64-17093

TACTILE SENSITIVITY THRESHOLD OF FINGER IN RELATION TO SKIN TEMPERATURE A64-80120

THEORETICAL ANALYSIS OF STRUCTURE OF TACTILE SENSATION USING CYBERNETICAL CONCEPTS JPRS-19565 N64-10658

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS JPRS-22300 N64-11872

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH

PRURITIC DERMATOSIS RSIC-105

N64-13812

DERMO-OPTICAL SENSE IN MAN JPRS-23068

N64-14542

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE ASD-TDR-63-732 N64-14689

TAKEOFF

S LANDING

TAKEOFF AND LANDING

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS ARL/HE-15 N64-22133

OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK NASA-TN-D-2195 N64-30094

MAGNETIC TAPE

TAR

S ASPHALT

TARGET

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL NASA-CR-55616 N64-15354

TARGET DISCRIMINATION

VISIBILITY PREDICTION, USING DATA ON HUMAN VISUAL PERFORMANCE CAPABILITIES A64-1762 A64-17621

VISUAL DETECTION LOBES IN CALCULATING DETECTION PROBABILITY IN VISUAL SEARCH STRATEGIES

A64-17626

CONTROL SYSTEM OF EYE IN TARGET TRACKING INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL IMAGE MOTION SERVING AS FEEDBACK

464-25747

INTERACTIVE EFFECTS WITHIN VISUAL PATTERN ON DISCRIMINABILITY OF INDIVIDUAL ELEMENT

A64-81198

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY AMRI-TDR-64-19 N64-22566

SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY AMRL-TDR-64-40 N64-26874

TARGET RECOGNITION

SAMPLED DATA MODEL FOR ACTION OF A CONTROL SYSTEM FOR DIRECTING HUMAN GAZE AT A MOVING TARGET

VISUAL PROBLEMS IN SPACECRAFT DOCKING INCLUDING ASTRONAUTS CAPABILITIES AND LIGHT EFFECTS ON AIAA PAPER 64-221 A64-20103

LIVING NEURAL NETWORKS IN ELECTRONIC TARGET RECOGNITION SYSTEMS FOR MISSILE GUIDANCE A64-25994

IMAGE QUALITY AND HILITARY TARGET RECOGNITION PERFORMANCE

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION

N64-10535

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING

RADAR AMRL-TER-64-45

N64-28604

ACCURACY OF TARGET RECOGNITION BY VISUAL PHCTOGRAPH INTERPRETATION OF OBLIQUE FORMS RADC-TCR-64-144 N N64-33536

TASK

SA AUDITORY TASK SA VISUAL TASK
EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS N64-16811 AMRI - TCR-63-125

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF TRAINING PROGRAM NAVTRACEVCEN-1218-1 N64-29247

TASK COMPLEXITY

TASK PERFORMANCE MEASUREMENTS EXAMINING EFFECT OF INSERTED ARTIFICIAL SIGNALS AND RESPONSE COMPLEXITY ON VIGILANCE A64-26857

TAYLOR MANIFEST ANXIETY SCALE SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST A64-80936 ANXIFTY SCALE

MANIFEST ANXIETY RELATED TO PHENOMENON OF NARROWING VISUAL FIELD WITH INCREASE IN DISTANCE A64-81196

TEACHING MACHINE

TRAINING AND INSTRUCTION BY MEANS OF TEACHING MACHINES IN FIELD OF AVIATION A64-28168

LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY TAUGHT, & SELF-TAUGHT JPRS-21770 N64-10204

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS N64-12524

TECHNIQUE

S SCREENING TECHNIQUE

TECHNOLOGY /GEN/ SA AEROSPACE TECHNOLOGY SA BIOTECHNOLOGY

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY N64-12508

TELECOMMUNICATION TELECONFERENCING STUDIED AS MEANS OF GROUP COMMUNICATION A64-24834

TELEMETRY

SA PHYSIOLOGICAL TELEMETRY RADIOTELEMETRY IN BIOLOGICAL EXPERIMENTS ON VOSTOK III AND VOSTOK IV FLIGHTS A64-80639

PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE LIFE FORMS. AND SOIL STUDY A64-80860

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH JPRS-17672 N64-10629

UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY JPRS-17534 N64-11004

ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE, PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS N64-11258

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS MAINTAINING GROUND STATION EQUIPMENT N64-21220

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE ND-64-37

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE N64-25166

PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA N64-27314

TRANSMISSION QUALITY DEGRADATION IN TELEPHONE COMMUNICATIONS BY TIME DELAY AND ECHO SUPPRESSORS A64-10566

LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE JPRS-18229 N64-10501

TEMPERATURE

CRYOGENIC TEMPERATURE

ENVIRONMENTAL TEMPERATURE

TEMPERATURE CONTROL TEMPERATURE GRADIENT

TEMPERATURE CONTROL

CF SKIN TEMPERATURE /BIGL/
MERCURY PRESSURE SUIT AND SPACE SUIT DESIGN FOR
PROJECT GEMINI, NOTING TEMPERATURE CONTROL BY
VENTILATION DISTRIBUTION SYSTEM

PHYSIOLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL A64-24613

THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS NASA-CR-55279 N64-14180

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION AMRL-TDR-63-102 N64-15093

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING - TEMPERATURE REGULATION FTD-TT-63-774/182 N64-22180

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS NASA-CR-56293 N64-22470

BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS FTD-TT-63-1016/162 N64-23655

AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR MICROORGANISM CULTURES N64-23658

TEMPERATURE EFFECT

CF HEAT EFFECT PHYSICAL AND PHYSIOLOGICAL FACTORS OF TEMPERATURE EFFECT ON HUMAN PERFORMANCE A64-12981

CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN TEMPERATURES A64 A64-13516

ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND AMOEBA EXPOSED TO ATMOSPHERIC OXYGEN A64-20699

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL A64-80964 CULTURES

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD CLEARANCE OF CARBON & BACTERIA IN MICE AAL-TDR-63-1 N64-13629

LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF GROUND SQUIRRELS

SUBJECT INDEX THEORY

AAL-TDR-63-4

N64-13630

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA JPRS-23054 N64-14529

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION
JPRS-23287 N64-15335

TEMPERATURE GRADIENT

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER AMRL-TDR-63-80 N64-136 N64-13653

TEMPERATURE MEASUREMENT

CF CALCRIMETRY TEMPERATURE MEASUREMENTS AND OBSERVATIONAL EVIDENCE OF LIFE IN THE FORM OF VEGETATION IN THE DARK REGIONS OF MARS

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS -PHYSICLOGICAL AND STRUCTURAL MODIFICATIONS IN BIRD AND MAMMAL

EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF MAN

AMRL-TDR-63-85

N64-12215

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS N64-20945

TEMPERATURE TRANSDUCER

PELTIER REFRIGERATORS AS TRANSDUCERS FOR RSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE

N64-11259

TENSION

SA HYPERTENSION SA DIVIGEN TENSION
PARTIAL PRESSURE CHANGES OF DIVIGEN AND CARBON
DICKIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN A64-80431

TERMINAL GUIDANCE

CLCSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMCTE CONTROLLED LUNAR LANDING SIMULATION

TERRAIN FOLLOWING AIRCRAFT
HEAD-UP DISPLAY SYSTEM FOR LOW FLYING OVER HILLS
AND POOR WEATHER APPROACHES A64-2858

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT CAL-IH-1715-E-5 N64-16489

TERRESTRIAL DUST BELT

S DUST

TEST

ALTITUDE TEST BODY SWAY TEST FLIGHT TEST FUNCTION TEST MATERIAL TESTING

SPIN TEST

TEST EQUIPMENT

CONTINUOUS FUNCTIONAL TESTING OF DXYGEN-BREATHING EQUIPMENT BY DIRECT OBSERVATION OF DAYGEN
CONCENTRATION CHANGES IN THE DEAD SPACE OF THE
MASK AND IN THE INLET TUBING
A64-1 A64-10255

TEST FACILITY

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY -LISTENING FATIGUE AND COMFORT N64-32376 TEST METHOD

DXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64-80222

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC STIMULATION

DISTURBANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-

DETERMINATION OF NITROGEN CONCENTRATION DURING BREATHING WITH MULTIPLE BREATH METHOD AND RELATION TO NORMAL PULMONARY VENTILATION

VIGILANCE DECREMENT AS FUNCTION OF PRETEST EXPECTANCY A64-80938

SO2 ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS RELATED TO CONCENTRATION AND BREATHING PHASE A64-80963

METHODS OF TESTING € MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425085 N64-13615

TEST PILOT

PILOT TRAINING PROGRAM FOR THE HYPERSONIC X-20 AIRCRAFT COVERING GROUND TRAINING, FLIGHT SIMULATOR AND X-15 EXPERIENCE A64-1

TEST PILOT - HIS ROLE, PERFORMANCE AND ASSESSMENT A64-19803

TEST PROGRAM

ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT LIFE SUPPORT SYSTEMS A64-2320 A64-23200

PSYCHOLOGICAL TESTING

TESTIS

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE RADIATION A64-80685

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393 A64-21862

SIMULATION OF CONTROLLED TETHERLINE OPERATIONS IN SPACE MP-1266 N64-23650

TETRACHLOR IDE

TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-RORGS

TETRAETHYL

TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS A64-81101

CYANOSIS, HEMATCLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

THALL TUM

ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF BETA RADIATION FROM RADIOACTIVE THALLIUM JPRS-24936

INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC THALLIUM AND ITS SALTS

JPRS-25206 N64-23257

THEORY

COMMUNICATION THEORY

GAME THEORY GROUP THEORY INFORMATION THEORY

KINETIC THEORY MINKOWSKI THEORY

PROBABILITY THEORY

RELATIVITY THEORY

STATISTICAL DECISION THEORY

THERAPY

POISONING IN RABBIT

CF CHEMOTHERAPY
CF ELECTRONARCOSIS
CF RADIATION THERAPY
TREATMENT OF SEVERE DECOMPRESSION SICKNESS IN A64-80216 AVIATORS

PATHOLOGICAL AND PSYCHOLOGICAL EFFECTS OF WHIPLASH A64-80233

WHIPLASH INJURY - MECHANICS, SITE OF INJURY DIAGNOSIS, AND TREATMENT A64-80557

DIAGNOSIS AND TREATMENT OF CORNEAL ENDOTHELIAL DYSTROPHY IN FLYING PERSONNEL A64-8 A64-80693

EARLY CIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING A64-80865 ATRCREW

HIGH ALTITUDE PHYSICLOGY IN RELATION TO ANAESTHESIA AND INHALATION THERAPY OF MCUNTAIN A64-80890 INHABITANT

SECRETCRY RATES OF ALDOSTERONE AND CORTISOL MEASURED BEFORE, DURING AND AFTER BED REST A64-80922

PENTABCRANE INTOXICATION DIAGNOSED WITH ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT

TECHNIQUE A64-81046 PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE

ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT CF JET PILOT WITH FLIGHT FATIGUE

A64-81069

A64-81052

DIURNAL VARIATION IN PLASMA VOLUME AND HEMOGLOBIN CONCENTRATION OF NORMAL AND HYPERTENSIVE SUBJECTS TREATED WITH GUANETHIDINE OR OTHER DRUGS 464-81095

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

VARIATION IN PLASMA FREE FATTY ACIDS IN RESTED FASTING SUBJECTS A64-81173

CASE HISTORY AND TREATMENT OF OXYGEN POISONING WITHOUT HYPOVENTILATION AFTER CONTINUOUS OXYGEN A64-81181

TREATMENT OF BENZENE, TOLUENE AND XYLENE POISONING IN WOMEN AFTER FORTY A64-81246

ENHANCEMENT OF PILOT PERFORMANCE CAPACITY BY ADEQUATE NUTRITION A64-81257

TECHNIQUES AND METHODS OF CONDUCTING PHYSICTHERAPEUTIC PROCEDURES JPRS-21725

N64-10050

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR N64-10683

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY -RADIATION SICKNESS, CONGENITAL DISEASE, AND HETERCHEMOTRANSFUSION REACTIONS JPRS-17819 N64-10723

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS FOR ULTRASCNIC PHYSIOTHERAPY JPRS-22280

AROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & THERAPY OF RADIATION INJURY N64-128C4

ANTIBICTIC THERAPY OF RADIATION SICKNESS IN MICE -STREPTCMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE JPRS-22625 N64-13161 RADIATION MEDICINE - THERAPEUTIC PASTE FOR TREATMENT OF RADIATION LESIONS N64-15678

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS JPRS-23678

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY JPRS-23834

BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY

MEDICAL THERAPY FACILITY BEAM

REIC MEMO-25 N64-24967 FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR

MITNE-47 N64-25472 MICROWAVE TREATMENT OF DISEASES

N64-27670

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY JPRS-16055 N64-28631

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES

THERMAL DECOMPOSITION CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM

VOLATILIZATION PROCESS TN-62-13 N64-19556 THERMAL ENVIRONMENT

CF HIGH TEMPERATURE ENVIRONMENT HIGHER HEAT CONDUCTIVITY RESULTING FROM SUBSTITUTION OF HELIUM FOR ATMOSPHERIC NITROGEN IN SPACESHIP CABINS

HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION, EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES A64-23188

THERMAL ENVIRONMENT AND PHYSIOLOGICAL LIMITATIONS AS RELATED TO NEED FOR HEAT ACCLIMATIZATION IN ASTRONAUT TRAINING A64-8066

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD - INSTRUMENTATION AD-603074 N64-30859

THERMAL INSULATION RADIAL VENTILATED GARMENT FOR USE IN TEMPERATURES
UP TO 200 DEG CENTIGRADE A64-8087 A64-80875

THERMAL NOISE THRESHOLD SIGNAL TO NOISE RATIOS FOR FILTERED THERMAL NOISE SIGNAL PRESENTED IN THERMAL NOISE

A64-16090 MASKER THERMAL PROTECTION

PROJECT APOLLO SPACE SUIT AND LIFE SUPPORT EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL INPUT AND SOURCES A64-18257

HEAT PROTECTIVE CLOTHING 464-80317

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS A64-80327

HEAT REGULATION, HEAT TOLERANCE, AND THERMAL PROTECTION IN MANNED SPACE FLIGHT

A64-80480

PILOCARPINE INDUCED MIOSIS AND PROTECTION OF

SUBJECT INDEX THERMOREGULATION

RETINA AGAINST THERMAL RADIATION

A64-80626

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPCSURE AT NIGHT AAL-TOR-62-44

N64-13645

THERMAL RADIATION

FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL N64-10008

ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS OF THERMAL RADIATION AND RADIATION SOURCES. AND PRETECTION AGAINST BIOLOGICAL EFFECTS TDCK-33500

THERMAL SHIELDING

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION AMRL-TDR-63-102 N64-15093

THERMAL STRESS

HUMAN THERMAL BALANCE, HEAT TOLERANCE AND PROTECTION IN ARTIFICIAL SPACECRAFT ENVIRONMENT A64-24396

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRCEMENT JPRS-20011 N64-11319

GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND AD-600960

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES

N64-25308

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN ALBING RAT

THERMISTOR

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLCW USING THERMISTOR FTD-TT-63-1175/18284 N64-27840

THERMOCHEMISTRY

THERMCCHEMICALLY SELF-PROPAGATING DXYGEN-GENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE AMRL-TDR-64-1 N64-18600

THERMOCONDUCTIVITY

THERMAL AND ELECTRICAL CONDUCTIVITIES CF BICLOGICAL FLUICS AND TISSUES N64-25892

THERMCCOUPLE

TEMPERATURE MEASUREMENT

THERMODYNAMIC PROPERTY

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PRCTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOCD SOLUTIONS N64-12777

RELATIONSHIP OF TWO-PHASE TOXICITY AND THERMODYNAMIC ACTIVITY IN TOXICOLOGY

N64-23367

BICPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS. AND TRANSITION PROPABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS JPRS-25733 N64-28309

THERMODYNAMICS OF PHOTOSYNTHESIS

N64-28310

THERMCMETRY S CALORIMETRY THERMOPHILIC PLANT EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN THERMOPHILIC PLANT JPRS-21501 N64-10067

THERMOREGULATION

CF HEAT REGULATION
CF SKIN TEMPERATURE /BIOL/ HEAT EFFECT AND AROUSAL EFFECT ON SWEATING AND ELECTRODERMAL RESPONSE OF HAND AND CHEST A64-12937

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY

COLD STRESS - INTENSITY AND DISTRIBUTION OF REFLEX MUSCULAR ACTIVITY IN MAN A64-80343

COLD STRESS - REGULATION AND DISTRIBUTION OF REFLEX MUSCLE ACTIVITY IN MAN 464-80344

BODY TREMOR RELATED TO DIFFERENTIAL STIMULATION OF CENTRAL NERVOUS SYSTEM A64-80389 A64-80389

SKIN ROLE DURING ADAPTATION TO ENVIRONMENTAL CHANGES A64-80417

THERMOREGULATORY SYSTEM OF HOMEOTHERMS AND POIKILOTHERMS IN COLD AND HOT ENVIRONMENTS A64-80419

THERMOREGULATORY RESPONSES OF MAN TO HOT DESERT CONDITIONS A64-80427

HEAT REGULATION, HEAT TCLERANCE, AND THERMAL PROTECTION IN MANNED SPACE FLIGHT

A64-80480

WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS A64~80551

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT, HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN A64-80688

PHYSIOLOGICAL REACTIONS OF MEN TO COLD IN **ANTARCTICA** A64-80695

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

464-80696

MICROVIBRATION, CONTINUOUS MUSCLE-ACTIVITY AND CONSTANCY OF BODY TEMPERATURE A64-80712

COLD RESPONSE OF THYROID IN HEAT-ADAPTED RAT FOLLOWING BILATERAL LESION OF HABENULAR NUCLEI

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD

THERMOREGULATION AND MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM FOR ANALOG SIMULATION

BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN COLD EXPOSED RAT A64-81065

FACTORS CONCERNED IN TEMPERATURE REGULATION IN MAN A64-81294

ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CERTICAL TEMPERATURE, HUMAN THERMOREGULATOR ASAE PAPER 62-422 N64-13149 ELECTRCSLEEP INFLUENCE ON THERMOREGULATION REFLEX
AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH
PRURITIC DEFMATOSIS
RSIC-105
N64-13812

ANALOG COMPUTER SIMULATION OF THERMOREGULATORY

MECHANISMS OF HUMAN BODY AMRL-TDR-63-116 N64-14966

PHYSICLOGICAL MECHANISMS OF CHEMICAL
THERMCREGULATION N64-22169

THIAMINE
HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN
RELAXANT CAT UNDER ACTION OF BARBITUATES AND
MISCLE
A64-80365

MUSCLE A64-80365

ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT
OF JET PILOT WITH FLIGHT FATIGUE

A64-81069
THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN

BURN SHOCK N64-10010
EARLY CONSET OF THIAMINELESS DEATH IN BACTERIAL

STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT PN-6117

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESCRYPTIBONUCLEIC ACID SYNTHESIS
N64-1915

THIAZCLE

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY

SCCIUM SULFITE OR THIAZOLIDINE TREATMENT

N64-13506

HIGL
THICL-ACTIVATED AMINOPEPTIDASE OF PITUITARY
EXTRACT
NASA-RP-55
N64-10293

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY
CHANGES OF THIOL GROUPS IN LIVER OF X-RAY
IRRADIATED MICE
INDS-22125
N64-11359

IONIZING RADIATION EFFECT ON THIOPHOSPHATE
OXIDIZING ENZYME IN RAT LIVER - BICCHEMISTRY
N64-13503

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252 N64-26711

UNITHICL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245

RACIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOBIHYLISOTHIURONIUM DIBROMIDE SAM-TDR-64-40 N64-32031

THIRD STAGE

S SATELLITE S SPACECRAFT

THIXOTROPIC PROPELLANT S PROPELLANT

THOMSON EFFECT S PELTIER EFFECT

THORAX

THERACIE AND ABDOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, CRESE AND NORMAL SUBJECTS

A64-80997

DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT EXPOSED TO AIR SHOCK WAVES A64-81C63

ESTIMATION OF BODY WEIGHT ACCORDING TO HEIGHT AND THORACIC PERIMETRY IN HUMAN A64-81128

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK
AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TOBEAT DIRECT CURRENT VOLTAGE
SAM-TDR-63-69
N64-11773

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION SAM-TDR-63-100 N64-17312

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS SAM-TDR-64-15 N64-21597

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC
IMPEDANCE
SAM-TDR-64-5 N64-21803

THRESHOLD

SA NOISE THRESHOLD
THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS
UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS
ESD-TDR-63-136 N64-13656

TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN
JPRS-23946 N64-17806

THRESHOLD DETECTOR
THRESHOLD WIDTH OF OBJECT MOVING BEHIND SLIT
DETERMINED FOR DIFFERENT SPEEDS

A64-20346

THRESHOLD OF VISUAL DETECTION OF ACCELERATED MOTION AFOSR-64-0189 N64-21381

THROMBIN
THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN
BLOOD COAGULATION HEMOSTATIC PROCESS
JPRS-19219
N64-11318

THROMBOPLASTIN
THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN
BLOOD COAGULATION HEMOSTATIC PROCESS
JPRS-19219
N64-1131

THYMIDINE
LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS
ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS
TIMES OF COLD EXPOSURE
AAL-TOR-63-7
N64-1363

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBUNUCLEIC ACID SYNTHESIS UCRL-10979 N64-14428

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESCRYRIBONUCLEIC ACID SYNTHESIS NA4-19150

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH NASA-RP-196 N64-22071

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE N64-22077

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE LEN-NI-11 /ALPHA/ N64-29885

THYROID
HYPOXIA EFFECTS ON BLOOD PRESSURE AND THYROID
FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS
A64-23254

ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLCCD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

TOTAL FASTING EFFECT ON IODINE METABOLISM IN MAN
A64-80607

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-80636

COLD RESPONSE OF THYROID IN HEAT-ADAPTED RAT

FOLLOWING BILATERAL LESION OF HABENULAR NUCLEI
A64-80880

ROLE CF THYROID GLAND AND SENSE ORGANS IN ADAPTATION TO HYPOXIA A64-81272

INHIBITOR CF THYROID AND EFFECT ON ADAPTATION TO HIGH ALTITUDE IN DOGS A64-81280

THYROICAL INFLUENCE ON SURVIVAL OF ALTITUDE— EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL SAM-TCR-63-101 N64-15746

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE
IN MILK AND HUMAN THYROID
UCRL-7716
N64-19097

BICELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY FTC-TT-63-231 N64-22646

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISCTOPE IN THYROID GLANDS OF RATS

N64-22869

PRCTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99
PERCENT CXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223

CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS JPRS-26911 N64-32748

TIME

CF REACTION TIME
CF REAL TIME
SPACE PERCEPTION AND RELATION TO TIME BASED ON
MINKOWSKI THEORY
A64-80490

TIME DELAY
TRANSMISSION QUALITY DEGRADATION IN TELEPHONE
COMMUNICATIONS BY TIME DELAY AND ECHO SUPPRESSORS

TIME DEPENDENCY
TIME-CONCENTRATION EFFECTS OF DXYGEN TOXICITY IN
MAN
N66-12864

TIME DISCRIMINATION
ACCELERATION FORCES CAUSING DISRUPTION OF TIMING
BEHAVIOR IN WHITE RAT
A64-1374

TIME DISCRIMINATION RELATED TO BODY TEMPERATURE AND PULSE RATE IN HOT ENVIRONMENT

A64-800

TIME DISCRIMINATION - AUDITORY AND VISUAL TIME JUDGMENT A64-80358

MOTION PERCEPTION - RELATION BETWEEN SUBJECTIVE VELOCITY, SPACE, AND TIME AS RELATED TO CORRESPONDING PHYSICAL VARIABLES

A64-80464

A64-80745

TIME ESTIMATES AS MEASURED BY REPRODUCTION RELATED TO INTERNAL RHYTHMS A64-80590

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL, AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-B0710

TIME JUDGMENT-CONSISTENCY OF INDIVIDUAL DIFFERENCES

CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO CONFINED GROUPS WITH AND WITHOUT REFERENCE TO GLCCK TIME A64-80747

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY

A64-80779

PHYSICLOGICAL RESPONSES ASSOCIATED WITH TIME ESTIMATION IN HUMAN OPERANT SITUATION

A64-808C

JUCGMENT CF VISUAL AND AUDITORY SIGNAL DURATION A64-80849

PHYSICLOGY OF DIURNAL RHYTHMS A64-80943

CRITICAL FLICKER FREQUENCY THRESHOLD AS FUNCTION OF ARTIFICIALLY MANIPULATED PHENOMENAL TIME

A64-81150

AUDITORY-VISUAL DIFFERENCES IN TIME JUDGMENT MAINTAINED WITH WHITE LIGHT AND WHITE SOUND STIMULI A64-81217

TIME FACTOR

INTERACTION OF FORWARD AND BACKWARD MASKING IN LISTENING TO TONAL PULSE A64-80642

ALERTED EFFECTIVE THRESHOLD IN AUDITORY
VIGILANCE TASK A64-80662

ABILITY TO DISCRIMINATE SMALL SPATIAL SEPARATIONS IN MOVING VISUAL TARGET /DYNAMIC VISUAL ACUITY/ AND EFFECT OF INCREASING TARGET VELOCITY AND EXPOSURE TIME 464-80832

SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE IN URINARY RIBOFLAVIN OF HUMAN A64-80876

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO CXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-B0883

PRIOR INSTRUCTIONS, TIME ORIENTATION, SEX, AND SKILL IN SCUBA DIVING AS RELATED TO TOLERATION OF SENSORY ISOLATION A64-8096

TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

BIOLOGICAL MATERIALS AFFECTED BY MAGNETIC FIELDS
OF DIFFERENT STRENGTHS FOR VARYING TIME PERIODS

A64-81117

TIME FUNCTION
MYOCARDIAL TENSION IN RAT AS RELATED TO PRESSURE
OF OXYGEN AND DURATION OF EXPOSURE
A64-80813

TIMING APPARATUS S ACCELEROMETER

TISSUE

SA ADIPOSE TISSUE
SA CONNECTIVE TISSUE
EFFECT OF IMPACT VELOCITY ON LDH ISOENZYMES AND
RELATED TISSUE DAMAGE IN CHIMPANZEE

A64-80847

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES
OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

A64-80939

TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL CULTURES A64-80964

UTILIZATION OF AUTOMATIC CHEMICAL ANALYTICAL DEVICES FOR DETECTION OF PROTEIN

A64-81025

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND OXYGEN UPTAKE DURING HYPOXEMIA A64-81262

THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY JPRS-22001 N64-10393

ACTION MECHANISM CF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-22292 N64-11781

RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS NYO-10451 N64-12123

CLINICAL RADICLCGY RELATION TO SURGERY AND STUDIES OF ORGANS AND TISSUES JPRS-23317 N64-15336

ELECTRIC PROPERTIES OF TISSUES N

N64-17539

NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE CULTURES AMRL-TCR-63-124 N64-17864

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY N64-17963 SAM-TDR-64-4

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE N64-20181

TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO REDUCED CXYGEN CONTENT IN ENVIRONMENT JPRS-16105 N64-21480

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES N64-22317 AMRL-TCR-64-23

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN TENSION IN BRAIN TISSUE FTD-TT-63-1215/18284 N64-22665

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION NASA-TT-F-8851 N64-23046

THERMAL AND ELECTRICAL CONDUCTIVITIES OF BICLOGICAL FLUIDS AND TISSUES GLR-24

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE N64-26056 JPRS-25252

N64-25892

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES N64-26665

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS N64-26784

NASA-TT-F-230

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY IN BRAIN AND MUSCLE TISSUE OF RATS JPRS-25630 N64-27319

PARTICIPATION OF ANIGNS IN FUNCTION OF EXCITABLE TISSUES N64-28040

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE N64-31C59

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED JPRS-26956

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY NASA-TT-F-9110 N64-33393

AN II ICBM TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR TITAN A64-80273

HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE FOR TITAN II ENGINE LRP-317/TDR-63-218 N64-26 N64-26025

TITAN III ICBM FEASIBILITY OF PILOT CONTROL OF THE X-20/ TITAN 111 BOOSTER, GIVING RESULTS OF SIMULATION WITH BOOST CONSTRAINTS A64-12 464-12899

TITAN LAUNCH VEHICLE FEASIBILITY OF PILOT CONTROL OF THE X-20/ TITAN III BOOSTER, GIVING RESULTS OF SIMULATION WITH BOOST CONSTRAINTS A64-12 A64-12899

TORACCO SERUM CHOLESTEROL AND TOBACCO SMOKING AS RELATED TO CAPACITY FOR PHYSICAL WORK OF MEN OF DIFFERENT AGES A64-8100 A64-81068 TOCOPHEROL

VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE A64-25546 **OXYGEN EXPOSURE**

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER HIGH PRESSURE A64-80920

TOLERANCE

SA HEAT TOLERANCE SA NOISE TOLERANCE

TOLERANCE /BIOL/ PAIN SENSITIVITY AS MEASURE OF SENSORY DEPRIVATION TOLERANCE A64-12936

HUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA A64-18878 AIAA PAPER 64-219

ORTHOSTATIC INTOLERANCE, WITH ASSESSMENT OF CIRCULATORY PROBLEM OF WEIGHTLESSNESS IN PROLONGED A64-19130 SPACE FLIGHT

CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN A64-19131 SIMULATOR CONFINEMENT

STIMULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE ACCELERATIONS A64-25600

TOLERANCE OF MICE X-IRRADIATED IN HYPEROXIC ENVIRONMENT TO EXPLOSIVE DECOMPRESSION A6 A64-80441

LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT A64-80763

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF OXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN PRESSURE CHAMBER A64-81263

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST DASA-1483

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CAR 1-63-33

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM N64-31319

TONOMETRY

INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING
SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF
GLAUCOMA INCIDENCE IN AVIATORS
A64-2

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST A64-80564

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION N64-30498 SAM-TR-63-82

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS N64-32981 SAM-TDR-64-57

TOPOGRAPHY

MAPPING

S SURFACE GEOMETRY

TORQUE

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND N64-27098 TR-20

TOXICITY

SA OXYGEN TOXICITY KEROSENE AND OTHER HYDROCARBON POISONING IN RATS A64-80001

PENTABORANE TOXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION

A64-80204

HYDRAZINE EFFECT ON LIVER LIPIDS

A64-80329

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR IN JAVA MONKEY A64-80335

POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY INHALATION OF NINE SOLVENT VAPORS

A64-81096

PENTABORANE POISIONING AND RELATION BETWEEN LETHAL AND INCAPACITATING DOSAGES IN MAMMAL A64-81177

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE SID-63-755

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND JPRS-21771

N64-10205

CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF MANGANESE OXIDES JPRS-18698 N64-10504

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY JPRS-22154

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783

TOXIC CHEMICALS AND LABOR CONDITIONS IN CHEMICAL INDUSTRY JPRS-23045 N64-14526

STRONTIUM 90 TOXICITY IN RAT EMBRYO

N64-18348

DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS AMRL-TDR-64-13 N64-18932

CAUSE OF DECREASE IN NATURAL RESISTANCE OF IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE JPRS-24896 N64-21282

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES N64-22049

TOXICITY HAZARDS IN SOLID PROPELLANT OPERATION ARS PAPER-2766-63 N64-22240

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS AMRL-TER-64-26 N64-22373

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942 N64-24606

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES N64-24609

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELANINE-FORMALDEHYDE RESINS FTD-TT-64-97/164 N64-25462

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION
JPRS-25986 N64-27568

PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE CXYGEN AT REDUCED ATMOSPHERIC PRESSURE NADC-ML-6403 N64-27953

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS
DERIVATIVES IN RATS
N64-28 N64-28947

EFFECTS OF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON TOXICITY OF AEROZINE SAM-TDR-64-49

COMPARATIVE EFFECT OF EQUINCLECULAR SOLUTIONS, DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108 N64-33392

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER NASA-TT-F-9110

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA N64-33401

TOXICITY AND SAFETY HAZARD ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL AVIATION ACCIDENTS A6 A64-19138

IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON PILOT A64-19143

INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM FUMES FROM FLUOROCARBON RESIN PYROLYSIS A64-22065

HUMAN ADAPTABILITY LIMITATION TO VARIOUS ATMOSPHERIC ENVIRONMENTS WITH TOXIC TRACE A64-24395

TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS A64-25588

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION REQUIREMENTS A64-25589

ATMOSPHERIC MONITORING OF TOXIC LEVELS OF MISSILE PROPELL ANTS A64-80230

TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR TITAN II A64-80273

OCCUPATIONAL CHARACTER OF LEUKEMIAS IN PERSONS EXPOSED TO BENZENE A64-80366

OCCUPATIONAL MEDICINE AT CAPE KENNEDY

A64-80390

ADAPTATION OF MAN AND MAMMALS TO ATMOSPHERIC POLLUTANTS A64-80429

ADAPTATION IN MAN DURING REPEATED EXPOSURE TO INDUSTRIAL CHEMICALS OF SIGNIFICANCE IN AEROSPACE MEDICINE A64-80430

HUMAN RESPONSE TO LONG-TERM, LOW-LEVEL EXPOSURE TO ETHYLENE OXIDE A64~80511

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUOROCARBON RESIN PYROLYSIS A64-80637

OZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

A64-80729

CHRONIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTROENCEPHALOGRAM IN MAN A64-80749 DEGREE OF RETENTION IN MINIATURE SWINE OF INGESTED AND INTRAVENOUSLY INJECTED RADIONUCLIDES USED IN SNAP /SYSTEM FOR NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

TOXICITY OF RED NITRIC FUMING ACID, DIMETHYL HYDRAZINE, M-3 PROPELLANT, NITROGEN PEROXIDE, ETHYLENE OXIDE, AND PREVENTIVE MEASURES AND A64-80887 TREATMENT

SO2 ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS RELATED TO CONCENTRATION AND BREATHING PHASE A64-80963

CYANOSIS, HEMATCLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL COMPONENT A64-81029

CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE A64-81037

PENTABORANE INTOXICATION DIAGNOSED WITH ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT A64-81046 TECHNIQUE

TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS A64-81101

NEUROVEGETATIVE CONDITIONS AND OCCUPATIONAL A64-81127

NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND HUMAN CASE REPORTS A64-81152

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY JPRS-22154 N64-12747

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES N64-12748

TOXICOLOGY

CF INSECTICIDE PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS, PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION A64-10250

REVIEW OF 273 CASES OF EJECTION FAILURES, GIVING THE FATAL INJURY PATTERNS AND TOXICOLOGIC TEST A64-10263 RESULTS

TOXIC ACTION OF ORGANOPHOSPHATE PESTICIDES ON CENTRAL NERVOUS SYSTEM A64-A64-19142

PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS A64-80132

TOXICOLOGICAL METHODS FOR DETECTION OF POISONOUS COMPOUNDS OF INTEREST IN AEROSPACE MEDICINE A64-80349

TOXICOLOGY OF RADIOACTIVE MATERIALS JPRS-21511

N64-10037

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL MANGANESE POISONING N64-10564 JPRS-17557

EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC PHOSPHORUS INSECTICIDES JPRS-22450 N64-11874

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL

ENDOTOXIN POISONING IN MICE AAI -TDR-63-13

N64-13662

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON MONOXIDE, CYANIDE, AND OTHER POISONING

N64-14595

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS UCL A-520

N64-15341

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM CARI-63-16 N64-16541

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM **PRODUCTION** N64-22352 FTD-TT-63-578/182

TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES JPRS-25116 N64-23366

RELATIONSHIP OF TWO-PHASE TOXICITY AND THERMODYNAMIC ACTIVITY IN TOXICOLOGY

N64-23367

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM N64-23368 TOXICOLGY

TOXIC PROPERTIES OF GERMANIUM TETRACHLORIDE N64-23369

TOXICOLOGY OF ALIPHATIC AMINES N64-23370

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610

TOXICOLOGY - ACTION OF DRUGS ON ANIMALS

N64-24612

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC N64-24615 CONTAMINANTS

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED N64-24617 **ECOLOGICAL SYSTEMS**

ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL N64-24626

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS AMRL-TDR-64-48 N64-29938

TOXICOLOGY OF RADIOACTIVE IRON

FTD-TT-64-599/1

N64-33943

TRACE CONTAMINANT

HUMAN ADAPTABILITY LIMITATION TO VARIOUS ATMOSPHERIC ENVIRONMENTS WITH TOXIC TRACE CONTAMINANTS

SEALED ENVIRONMENTS IN RELATION TO HEALTH AND A64-80265 DISEASE

MONITORING TRACE CONTAMINANTS IN SIMULATED A64-80538 MANNED SPACECRAFT

SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK EUR-474.E N64-15672

TRACE ELEMENT

TRACE METAL - ESSENTIAL OR DETRIMENTAL TO LIFE BNL-828-/T-323/ N64-21733

TRACE ELEMENTS IN RADIATION DERMATITES JPRS-25502

N64-25198

ANALYSIS OF DATA FROM BIOCHEMICAL AND

CF FLIGHT SIMULATION

REPEATED MOTIONS

PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLCCD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA UCLA-12-523

NG4-21215

PHYSIOLOGICAL VALUE OF RADICISOTOPE - KINETIC BEHAVIOR OF TRACERS BNL-857/T-341/

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF N64-31348

TRACHEA

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

TRACK ING

SA PURSUIT TRACKING CF TARGET DISCRIMINATION BLOOD-ALCOHOL CONCENTRATION IN SIMULATED DAY AND NIGHT DRIVING AND ITS EFFECT ON VISION A64-80009

STEREOSCOPIC FACILITATION OF SIGNAL DETECTION DURING TARGET TRACKING A64-80577

TRACKING ROTARY MOTION AFTEREFFECT WITH DIFFERENT ILLUMINATIONS OF INSPECTION AND TEST FIELDS

ABILITY TO DISCRIMINATE SMALL SPATIAL SEPARATIONS IN MOVING VISUAL TARGET /DYNAMIC VISUAL ACUITY/ AND EFFECT OF INCREASING TARGET VELOCITY AND EXPOSURE TIME

UPPER EXTREMITY PROSTHETICS. SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING REPT -- 64-30 N64-33689

TRACKING STUDY SAMPLED DATA MODEL FOR EYE MOVEMENT CONTROL SYSTEM

TRACKING SYSTEM

MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION. USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST TIME CUTPUT SOLUTION

CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK

PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS AD-428192 N64-19909

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879 N64-19955

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS CAL-131 N64-32606

TRAFFIC CONTROL

SA AIR TRAFFIC CONTROL ELECTRODERMAL SKIN RESPONSE TO FATIGUE IN AIRLINE DISPATCHER A64-80873

TRAILBLAZER I REENTRY VEHICLE S REENTRY VEHICLE

TRAILBLAZER II REENTRY VEHICLE S REENTRY VEHICLE

TRAINFR

EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOLVING AD-439648 N64-30499

TRAIN ING

SA EJECTION TRAINING SA SPACE FLIGHT TRAINING CF BEHAVIOR

CF INSTRUCTION CF LEARNING CF MEMORY CF PRACTICE CF SIMULATOR TRAINING VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH

EVALUATION OF PRIMARY COURSE OF AEROSPACE MEDICINE AND ENGLISH LANGUAGE COURSE FOR FOREIGN FLIGHT A64-81086

A64-80245

THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS JPRS-19999 N64-10592

DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS OF TEACHING METHODS JPRS-22075 N64-11270

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS JPRS-22508

PREPARATION OF PROGRAMMED INSTRUCTION FOR AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM

ESD-TDR-63-608 N64-12319

TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME N64-12772

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL AD-426228

SCREENING TECHNIQUES, TRAINING STANDARDS, AND SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND N64-15105

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS AMRL-TDR-63-125

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL AMRL-TDR-63-136 N64-16813

QUEUING MODEL FOR DETERMINING MANPOWER AND TRAINING - HUMAN ENGINEERING AMRL-TDR-64-21 N64-19101

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING TELEMETERING GROUND STATION EQUIPMENT - OPERATOR PERFORMANCE ND-64-37 N64-21373

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY N64-22515

CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY DETECTION TASKS NAVTRADEVCEN-3143-1 N64-22518

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS AVOIDANCE TASK ARL-TDR-64-7 N64-22697

ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN TEACHING OF DRAWING IN TECHNICAL SCHOOLS

N64-25160

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF TRAINING PROGRAM NAVTRADEVCEN-1218-1 N64-29247

TRAINING, MOTIVATION, AND HUMAN ENGINEERING AD-446448 N64-29918

SUBJECT INDEX TRAINING EQUIPMENT

LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF N64-30219 TRAINING PROCESS

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRADEVCEN-789-3 N64-32037

PERSONNEL TRAINING PROGRAM DEVELOPMENT HUMRRO-RB-11 N64-32681

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL N64-32813

TRAINING OF SCIENTISTS IN USSR

JPRS-27116

N64-33855

TRAINING EQUIPMENT

CF FLIGHT SIMULATOR
DESIGN CRITERIA FOR FLIGHT TRAINING DEVICES AND
SIMULATORS, WITH EMPHASIS ON TASK FIDELITY 464-13776

PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR FOR ASTRONAUT TRAINING SAE PAPER 866H A64-20850

ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS JPRS-20100 N64-11133

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES NOTS-TP-3346 N64-20

IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS BY USE OF TRAINING AIDS NAVTRADEVCEN-1105-1 N64-29280

TRAJECTORY

SA BALLISTIC TRAJECTORY L-SHAPE TRAJECTORY IN EMERGENCY ESCAPE SYSTEM IN A64-80840 ARMY HELICOPTERS

TRANCUIL 17FR CF MEPROBAMATE

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE CARI-63-23 N64-17236

TRANSDUCER

SA PRESSURE TRANSDUCER SA TEMPERATURE TRANSDUCER
TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF
ARTERIAL BLOOD PRESSURE N64-1618 N64-16184

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH N64-19015 NASA-SP-5007

TRANSFER

ELECTRON TRANSFER

ENERGY TRANSFER

TRANSFER FUNCTION OF HUMAN PILCT OPERATING IN CLOSED LOOP CONTROL SITUATION, USING SINGLE AXIS AND TWO AXES TESTS, AND COMPARISON OF PILOT AND MODEL PILOT PERFORMANCE A64-166

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION NASA-TN-C-2177 N64-17157

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS

OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH N64-24707 **FDRECASTING**

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN

NASA-RP-206 N64-25000

TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL NASA-TN-D-2394

TRANSFER OF TRAINING

TRANSFER OF TRAINING FROM SIMULATED TO REAL

CONTROL SITUATION

A64-12933 *

PERFORMANCE OF MANUAL POSITIONING TASK AS FUNCTION OF GUIDANCE, RESTRICTION, AND KNOWLEDGE OF RESULTS
THE TRAINING A64-81192

TRANSFER IN PERCEPTUAL LEARNING FOLLOWING STIMULUS PREDIFFERENTIATION

TRANSFUSION

TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL INFUSION OF BLOOD SUBSTITUTE AT LOW PRESSURE N64-12766

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH N64-12768

BLOOD TRANSFUSION & COAGULATION STUDIES JPRS-24118

N64-18520

PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION

N64-18522

HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER -POLYVINYL ALCOHOL N64-18523

TRANSIENT OSCILLATION

S LASER

TRANSISTOR

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS N64-12997 RSIC-87

TRANSITION ELEMENT

S MANGANESE S RHENIUM

TRANSITION PROBABILITY BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS

JPRS-25733

N64-28309

TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS

N64-28311

TRANSMISSION

CF DATA TRANSMISSION CF LIGHT TRANSMISSION CF SOUND TRANSMISSION

CF SOUND TRANSMISSION
MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION
UNDER LONG TERM ISOLATION CONDITIONS

N64-23759

TRANSMISSION EFFICIENCY

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY STL-QPSR-3/1963/

TRANSMISSION LOSS

TRANSMISSION QUALITY DEGRADATION IN TELEPHONE COMMUNICATIONS BY TIME DELAY AND ECHO SUPPRESSORS A64-10566

TRANSMISSION LOSS DETERMINATION IN BICYCLE ERGOMETER FPRC/MEMO-198 N64-25843

TRANSPARENCY

VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF HUMAN BODY TO RADIO WAVES SAM-TDR-63-80 N64-16642

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY TRRADIATION OF RAT FUR-484.F

N64-19296

TRANSPORT CF SUPERSONIC TRANSPORT RULES FOR TRANSPORTATION AND SHIPMENT OF RADIOACTIVE MATERIALS AEC-TR-6315 N64-20477

TRANSPORT PROPERTY

S DIFFUSION S HEAT TRANSFER S KINETIC THEORY

TRANSURANIUM ELEMENT

S PLUTONIUM

TRAPPED PARTICLE S GEOMAGNETICALLY TRAPPED PARTICLE

TRAUMA

BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N6 N64-10009

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY
JPRS-22001 N64-10393

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE N64-25323

TRAVELING SOLVENT METHOD S SOLVENT

TREATMENT

S THERAPY

TRIBOLIUM EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

N64-27513

BEHAVICR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

TRIMETHADIONE

ANCXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYDANTOIN, TRIMETHADIONE, IODGACETATE, AND RESERPINE A64-80800

HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY ELECTRON SCATTERING FROM TRITIUM GAS LAMS-2959 N64-12113

RADIATION HAZARC TO PERSONNEL DUE TO TRITIUM DIFFUSION IN GLOVE BOX OPERATIONS N64-13165

BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION N64-18094

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID MOLECULE LFEN-NI.11 /ALPHA/ N64-29885

TROPICS

ADAPTATION OF MAN TO HUMID HEAT IN TROPICS A64-80428

DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN TROPICAL AREAS A64-81317

TROPOPAUSE

S ATMOSPHERE

CF ATMOSPHERE
DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE FPRC-MEMC-199

TRYPTAMINE

TROPOSPHERE

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802 TRYPTOPHAN

SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS INTOXICATED WITH TETRAETHYL LEAD

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION UCRL-11191

MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS IN PROTEIN MACROMOLECULE JPRS-23991 N64-18318

TUBE

EUSTACHIAN TUBE

FLASH TUBE VORTEX TUBE

TUROR

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS IMMUNOLOGY & RADIATION SICKNESS JPRS-20040 N64-11354

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS N64-12896

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUNCRS IN RATS FTD-TT-63-1049/16264

RADIATION THERAPY OF BRAIN TUNOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS JPRS-26532 N64-30613

TURBUL ENCE

S ATMOSPHERIC TURBULENCE

THIST

TORQUE

U.S. AIR FORCE BIOASTRONAUTIC RESEARCH CONDUCTED BY U.S. AIR A64-12986

TRAINING OF SCIENTISTS IN USSR JPRS-27116

N64-33855

ULCER

CF GASTROINTESTINAL SYSTEM
INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA,
BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021 N64-11621

ULTRAHIGH FREQUENCY WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-11:

ULTRAHIGH VACUUM EFFECTS ON MICRODRGANISMS

A64-18740 DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR

ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON MICROORGANISMS

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES
NASA-CR-55288 N64-15181

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE TO LASER BEAM IRRADIATION A64-226 A64-22695 ULTRASONIC INSPECTION
ACCUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF
ORGANS & TISSUES OF MAN & ANIMALS
JPRS-22840 N64-13350

ULTRASCNICS FOR SOFT TISSUE AND ORGAN STUDY -DIAGNOSIS OF PATHOLOGICAL PROCESSES

N64-30238

N64-10206

ULTRASONIC RADIATION
ULTRASCNIC EFFECT ON CENTRAL NERVOUS SYSTEM
FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM
IN RABBITS
A64-80398

ULTRASCUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLCOD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

MORPHCLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LCCAL ULTRASONIC IRRADIATION N64-10207

BICLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC TREATMENT N64-10798

METACHREMATIC REACTION OF NUCLEIC ACIDS, DNA AND RNA, PRODUCED BY ULTRASONIC RADIATION JPRS-24353 N64-189

ULTRASONIC TESTING
COMPUTATION OF BLOOD FLOW VELCCITY FROM PRESSURE
PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC
FLOWMETER
A64-80259

ULTRASCUND AND TEMPERATURE EFFECT ON CCLLOID PROPERTIES OF HUMAN SERUM A64-80360

ULTRASONIC WAVE
CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES
LORC-21-590 N64-10198

DYNAMICS OF ACUTE RADIATION SICKNESS

JPRS-25651

JØRS-21-590 N64-10198
PRCPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS -

ULTRASCNIC WAVES AND MOLECULAR BIOPHYSICS

LTRASONICS
HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
ULTRASCUND ON LABYRINTH AND TEMPORAL BONE

ULTRASCNIC DEVICE FOR REMOVAL OF DENTAL CALCULUS

ULTRASCNIC DEVICE FOR REMOVAL OF DENTAL CALCULUS

JPRS-21998

N64-10390

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS
FOR ULTRASCNIC PHYSIOTHERAPY
JPRS-22280 N64-11871

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYOSIN N64-13693

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS
ON YEAST CELL REPRODUCTION N64-32955

EARLY CNSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT 8N-6117 N64-13204

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMINO ACID & PROTEIN UNDER ULTRAVIOLET LIGHT
N64-18519

INACTIVATION AND RECOVERY OF MICROGRAMISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786

ULTRAVIOLET RADIATION
SOLAR ULTRAVICLET RADIATION EFFECTS ON
MICROCRGANISMS AND RELATION TO GERM TRANSPORTATION
IN INTERPLANETARY SPACE
A64-24973

ULTRAVICLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES JPRS-19287 N64-11068

FORMATION OF ACENOSINE BY ULTRAVIOLET IRRADIATION

OF ADENINE AND RIBOSE

N64-11375

EFFECT OF ULTRAVICLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS NASA-CR-55655 N64-16109

MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION JPRS-24605 N64-20232

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY
OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786

ULTRAVIOLET SPECTRUM
ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND
CATECHOLE DERIVATIVES
ARL-TDR-63-29
N64-14971

UNIT
RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO
AUDITORY STIMULI IN CATS
N64-27968

UNIVERSE
SPECULATIONS ON LIFE IN UNIVERSE, EVOLUTION OF
MAN, AND BEGINNINGS OF UNIVERSE

A64-80595

UNMANNED SPACECRAFT
CF MANNED SPACECRAFT
UNMANNED SPACECRAFT
TO AVOID INTERPLANETARY CONTAMINATION
A64-24982

UNSATURATION

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE—

TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF

UNSATURATION

N64-22863

UPPER ATMOSPHERE
COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE
AD-428703
N64-19877

JRANIUM UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME
OF SOME ORGANS CF RATS N64-31347

BIOSYNTHESIS CF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY N64-12571

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY
FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928 N64-27324

URINE

CF HUMAN WASTE

URINARY OUTPUT OF ADRENALINE AND NORADRENALINE,

PULSE RATE AND BLOOD PRESSURE OF SUBJECTS AFTER

WATER IMMERSION STUDIED, TO DETERMINE THE

SYMPATHOADRENAL RESPONSE AND ORTHOSTATIC TOLERANCE

A64-10252

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-80155

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE A64-80184

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

A64-80232

THIRST PREVENTION AND WATER RECOVERY FROM SEA WATER AND FROM URINE BY FREEZE-DRYING DURING PROLONGED SPACE FLIGHT A64-80550

WHCLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICCSTERCIC LEVELS A64-80636

BLCOD SUGAR, PYRUVIC AND LACTIC ACID, AND CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO CENTIMETER WAVES FOR 24 HOURS A64-80715

CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

A64-80722

UTILIZATION OF URINARY NITROGEN BY CHLORELLA
PYRENCIDOSA FOR BIOLOGICAL REGENERATION SYSTEM
FOR LONG TERM SPACE FLIGHT

A64-80828

SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE IN URINARY RIBOFLAVIN OF HUMAN A64-80876

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS

A64-81085

URINARY CAST FORMATION OF TH-MUCOPROTEIN AND CREATININE EXCRETION DURING EXERCISE

A64-81318

URINE ULTRAFILTRATION FOR WATER RECOVERY USING MEMBRANE FILTERS
NASA-CR-51575 N64-11383

MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE AMRL-TCR-63-70 No.

BICCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
AFTER SPACE FLIGHT N64-11673

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MCTICN SICKNESS DUE TO TURBULENT FLIGHT SAM-TDR-63-9 N64-13931

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS AMRL-TCR-63-113 N64-14695

BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS
NASA-CR-55313
N64-14898

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZEC SUITS
SAP-TCR-64-13

SAP-TCR-64-13 N64-17958
WATER RECCVERY FROM URINE BY FREEZE DRYING PROCESS

USING MICRCMAVE ENERGY SOURCE
AMRL-TCR-63-130 N64-18789

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHCLAMINES SAM-TDR-63-63 N64-21094

INCRGANICALLY BOUND IODINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLCRIDE CCLUMN
ANL-6887
N64-30602

WATER RECCVERY FROM SEA WATER AND FROM HUMAN URINE REPT.-3 N64-30696

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION N64-33452

URGGRAPHY

INTRAVENCUS URCGRAPHY IN AIRCREWS

A64-80033

V

VACUUM EQUIPMENT

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR
ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF
EFFECTS OF SIMULATED SPACE ENVIRONMENT ON
MICROCRGANISMS

A64-24980

VACUUM ADAPTATION OF BASEPLATE MATERIALS TO DENTAL CASTS SAM-TDR-64-51 N64-31054

VADOSE

S GEOLOGY S WATER

VALSALVA MANEUVER

VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOCD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE

A64-80898

VAN ALLEN BELT

RADIATION SHIELDING DEPENDENT ON DOSIMETRY OF FLARE-PRODUCED AND VAN ALLEN BELT PROTON BEAMS A64-24397

VANADIUM DXIDE

TOXICCLOGY OF VANADIUM TRIOXIDE DUST, GERMANIUM TETRACHLORIDE, AND ALIPHATIC AMINES N64-2336

EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM TOXICOLGY N64-23368

VAPOR

CF GAS CF MERCURY VAPOR

CF WATER VAPOR

DETECTION INSTRUMENTS FCR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771
N64-10205

VASCULAR SYSTEM

INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION STRESS IN VENTRODORSAL DIRECTION AND RELATION TO VASCULAR AND PARENCHYMAL ELEMENTS

A64-25598

SENSITIVITY AND REACTION CAPABILITY OF
CRANIOCEREBRAL CAVITY VASCULAR SYSTEM TO
LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF
BODY POSITION
A64-25604

HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLCCC VESSELS AND INTRACCULAR PRESSURE A64-80908

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS

A64-80941

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DCG AS RELATED TO PH AND CARBON DIOXIDE TENSION A64-81009

G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE
JPRS-22956 N64-14134

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID 1951-990 N64-22203

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY
DURING LONGITUDINAL G-LCADS N64-23770

ETICLOGY OF DECCMPRESSICN SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES N64-266

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE FTD-TT-63-849/162 N64-31103

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY

N64-31104

VASDCONSTRICTION

CARBON DIOXIDE EFFECT ON PULMONARY VASCULAR
RESISTANCE A64-80701

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL STRESS IN RATS A64-81087

VASODILATION

CF RECCROIL

ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RACIANT HEATING OF TRUNK A64-80998

VEGREATION

EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION AND IN SCIL ON ACCUMULATION IN PEA PLANTS & WHEAT JPRS-22656 N64-1300

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION JPRS-25347 N64-28007

VEHICLE

S SATELLITE

S SPACE VEHICLE

S SPACECRAFT

VEIN

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY VEIN N64-17943

VELOCITY

CF ACCELERATION

ABILITY TO CISCRIMINATE SMALL SPATIAL SEPARATIONS
IN MOVING VISUAL TARGET /CYNAMIC VISUAL ACUITY/
AND EFFECT OF INCREASING TARGET VELOCITY AND
EXPOSURE TIME

A64-80832

VELOCITY MEASUREMENT S ACCELERCHETER

VENTILATION

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO CXYGEN INTAKE, VENTILATION, AND HEART RATE A64-8051

RELATIVE COMPLIANCES OF WELL AND POORLY VENTILATED SPACES IN NORMAL HUMAN LUNG A64-81C13

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS

CF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE
SUITS

SAM-TCR-63-59

N64-12855

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE
OF LUNGS
N64-17939

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECCMPRESSION FTD-TT-64-134/18284 N64-21973

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING TEMPERATURE REGULATION
FTC-T1-63-774/162 N64-221

HELIUM REPLACEMENT FOR NITROGEN IN SPACECRAFT CABIN AND HELIUM-OXYGEN VENTILATION FOR PRESSURE SUIT N64-31535

VENUS

ENVIRONMENTAL CONDITIONS OF MARS AND VENUS
A64-80787

VENUS ATMOSPHERE
MARINER II SPACE PROBE STUDIES OF MARS AND VENUS

VENUS FLY TRAP ROCKET S COLLECTOR

VERTEBRAL COLUMN
EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES
A64-20698

BICMECHANICS OF HUMAN SPINAL COLUMN AT LOW FREQUENCY VIBRATIONS A64-80027

VERTEBRAL FRACTURES AS RELATED TO EJECTION SEAT DESIGN, POSTURE, AND EJECTION FORCES A64-80501

EJECTION SEAT ACCELERATIONS AND INJURIES OF VERTEBRAL COLUMN A64-80504

STATISTICAL ANALYSIS OF VERTEBRAE BREAKING
STRENGTH AND ENDPLATE FRACTURES RELATED TO
ACCELERATION STRESS
A64-81006

VERTICAL MOTION

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896 N64-27323

VERTICAL PERCEPTION

MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL LOCALIZATION OF VISUAL STIMULI IN UP-DOWN DIMENSION OF SPACE A64-20690

VERTIGO

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED
QUANTITATIVELY
A64-8C255

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT
A64-80280

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC STIMULATION A64-80301

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN MAN A64-80340

INFLIGHT VERTIGO AND LCSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE HISTORY A64-80508

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF VERTIGO IN RABBIT A64-81123

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS -ELECTROENCEPHALOGRAPHIC STUDIES CARI-63-21 N64-14952

VERY HIGH FREQUENCY RADIO EQUIPMENT
VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED
ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF
HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80
N64-16642

VESTIBULAR APPARATUS

GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND DOGS A64-25603

RESPONSE OF OTOLITH ORGANS TO BODY TILT IN CAT
A64-80217

MECHANISM OF MOTION SICKNESS IN CAT

A64-80234

OTOLITH INFLUENCE ON NYSTAGMUS EVOKED BY CALORIC STIMULATION A64-80242

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON OTOLITH ORGANS OF RABBITS LYING IN LATERAL POSITION ON PARALLEL SWING A64-80244

VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH REPEATED MOTIONS A64-80245

VESTIBULAR CORICLIS EFFECT CURING ADDITIONAL LINEAR ACCELERATION A64-80250

POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS SYSTEM STABILITY A64-80254

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED QUANTITATIVELY A64-80255

OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

NYSTAGMUS IN MAN AND RABBIT - STUCY OF SECONDARY
PHASE A64-80257

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT A64-80280

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC STIMULATION A64-803C1

VESTIBULAR RECEPTORS - FINE STRUCTURE AND FUNCTION
A64-80302

HABITUATION, EFFERENCE, AND VESTIBULAR INTERPLAY
A64-80305

NYSTAGMUS RECORDED SIMULTANEOUSLY IN THREE CRTHOGCNAL PLANES A64-80339

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALCRIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN MAN A64-80340

SENSORY-PHYSIOLOGICAL PROBLEMS IN SPACE FLIGHT ARISING FROM STIMULATION OF VESTIBULAR APPARATUS A64-80351

VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL ROTATION A64-80384

ADAPTATION TO MOTION - RELATION TO VESTIBULAR APPARATUS AND CENTRAL NERVOUS SYSTEM

A64-80437

EYE MCVEMENTS AND MUSCLE ACTIVITY RESULTING FROM ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN CAT A64-80461

PERSONALITY VARIABLES AS DETERMINED BY MMPI RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR STIMULATION A64-80582

GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND PERCEPTION OF VERTICAL IN PRESENCE OF TILTED VISUAL FIELD A64-80703

VESTIBULAR AND CARCIOVASCULAR RESPONSES TO MEIGHTLESSNESS AND ADAPTATION TO INCREASED GFORCES AS RELATED TO PULSE, BLOOD PRESSURE, RESPIRATION, AND ELECTROCARDIOGRAM

A64-80845

CENTRALLY EVOKED NYSTAGMUS IN ANIMALS SUBJECTED TO VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS DRUG A64-80953

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,
TETRAETHYLAMMONIUM, AND ISCELUROPHATE /DFP/ ON
VESTIBULAR FUNCTION IN RABBIT A64-80981

AMPLITUDE, FREQUENCY AND DURATION OF NYSTAGMUS IN RESPONSE TO ANGULAR ACCELERATION RELATED TO VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY A64-80986

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION

464-80999

FUNCTIONAL STATE OF ORGAN OF EQUILIBRIUM IN WHITE MOUSE GROWN WITH DAILY EXPOSURE TO ACCELERATION A64-81023

THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT RADIAL ACCELERATION IN PIGEON A64-81024

RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER

A64-81053

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

A64-81067

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA A64-81073

VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG THERAPY OF DOG AND HUMAN SUBJECTS WITH PHENOTHIAZINE, THIETHYLPERAZINE

A64-81098

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF

VERTIGO IN RABBIT

A64-81123

VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT, AND CAT AS AFFECTED BY CHLORPROMAZINE

A64-81208

PERCEPTION IN HUMAN OF RHYTHMICALLY REPEATED LINEAR MOTION IN VERTICAL PLANE AT DIFFERENT FREQUENCIES AND EFFECT OF VESTIBULAR APPARATUS A64-81230

ROLE OF VESTIBULAR APPARATUS IN OPTOKINETIC
NYSTAGMUS IN RABBIT
A64-81310

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS
JPRS-22120 N64-11273

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119
N64-1681(

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT NASA-CR-53958 N64-20730

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS

N64-23749

MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS N64-23750

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER

N64-23762

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION

....

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS
N64-271
N64-271

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896 N64-27323

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS
N64-27633

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS CARI-63-29 N64-29847

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS NASA-TT-F-9147 N64-33408

VESTIBULAR EFFECT

VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO HARMONIC STIMULATION OF THE HORIZONTAL SEMICIRCULAR CANAL A64-10257

VESTIBULAR STIMULATION EFFECTS ON VISUAL PERCEPTION FROM MANNED SPACE FLIGHT

A64-10629

RELATIONSHIP OF VESTIBULAR TEST RESPONSES, ESPECIALLY THOSE WHICH ARE ELECTRONYSTAMOGRAPHIC, TO PILOT PERFORMANCE DURING FLIGHT TRAINING A64-12380

SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION DURING WEIGHTLESSNESS, BY TIMING ROTATION OF COLUCGYRAL ILLUSION AND THE PERCEPTION OF ROTATION A64-13509

ELICITATION OF SECONDARY AND INVERTED PRIMARY

NYSTAGMUS FROM THE CAT WITH VESTIBULAR STIMULATION BY REPEATED UNILATERAL CALORIC IRRIGATION

164-13!

RADIAL ACCELERATION EFFECT ON POSITION SENSE,
CONSIDERING PSYCHIC FUNCTIONS AND OCULOGRAVIC
PHENOMENON A64-22063

SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD STRENGTHS A64-22818

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS WITH REGARD TO THEIR DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT CONTROL A64-22819

RELATION OF PHYSICAL PROTECTION OF MAN TO ISOLATION AND DISCRIENTATION DURING SPACE TRAVEL A64-24620

OPERATION OF VESTIBULAR APPARATUS AND RELATED NERVE CENTERS UNDER CONDITIONS OF ZERO GRAVITY A64-24975

OTOLITHIC STIMULUS EFFECT ON DISORIENTATION AND TROUBLESOME ILLUSIONS IN HUMAN STUDIED, USING LINEAR ACCELERATION OR ORBITING WITHOUT A64-25554

WEIGHTLESSNESS EFFECTS ON EXCITABILITY OF MANS VESTIBULAR ANALYZER A64-25583

VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE A64-255

GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO DETERMINE TIME CORRELATION BETWEEN VESTIBULAR STIMULI STRENGTH AND VEGETATIVE REACTIONS

A64-25596

ACCELERATION TOLERANCE, ACCELERATION PROTECTION, AND EFFECTS OF ACCELERATION ON VISION AND ORIENTATION A64-80143

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY CENTRAL NERVOUS SYSTEM IN RABBIT

A64-80239

VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA EFFERENT MOTOR SYSTEM IN CAT A64-80240

VESTIBULAR STIMULUS EFFECTS ON ELECTROCORTICOGRAM IN CAT A64-80870

HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASOUND ON LABYRINTH AND TEMPORAL BONE

A64-80979

ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT CARI-63-14 N64-11949

BIOINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE NASA-CR-55615 N64-1535:

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL NASA-CR-55616 N64-15354

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR

DEFECTS NASA-CR-55614

N64-15355

VESTIBULAR DISORIENTATION DUE TO CORIOLIS ACCELERATION NASA-CR-55784

N64-16331

HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION FTD-T1-64-32/182 N64-22365

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY NASA-RP-215 N64-23377

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES

N64-23761

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN NASA-CR-56896 N64-27889

VESTIBULAR TEST
PERSONALITY VARIABLES AS DETERMINED BY MMPI
RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR
STIMULATION
A64-80582

VESTIBULAR CLINICAL EXAMINATION USING ELECTRONYSTAGMOGRAPHY

NASA-CR-50333

A64-80948

N64-22752

VIABILITY

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON

PRESERVATION OF VIABILITY OF CHORELLA CULTURE

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS

EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN STRATOSPHERE
NASA-CR-50698 N64-22769

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY
OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE NASA-CR-59092 N64-33099

VIBRATION
BIOMECHANICS OF HUMAN SPINAL COLUMN AT LOW
FREQUENCY VIBRATIONS
A64-80027

TRANSIENT ACCELERATION, VIBRATION, AND NOISE PROBLEMS IN SPACE FLIGHT - A REVIEW

A64-80478

ION MIGRATION IN TISSUE OF MAN AND ANIMAL UNDER HYPOXIA CAUSED BY LOW AMBIENT PRESSURE, ACCELERATION STRESS AND VIBRATION

A64-81266

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT ACR-95 N64-31508

VIBRATION EFFECT
VIBRATORY FORCE EFFECT UPON BIOLOGICAL SYSTEMS,
PARTICULARLY HUMAN ORGANISM
A64-12983

VIBRATION EFFECTS ON THE VISUAL ACUITY OF MAN
A64-14993

VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE A64-25595

VIBRATION EFFECTS ON VISUAL PERFORMANCE

A64-80165

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY

SUBJECT INDEX VIGILANCE

CORTICOSTEROID LEVELS A64-80636 A64-80115 VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF DEHYDRATION OF SALTS VIBRATION ON TOTALLY IMMERSED CATS JPRS-18576 N64-10780 464-80119 PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS VIBRATION STRESS REVIEWED WITH RESPECT TO SYSTEM CAUSED BY VIBRATION BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES 464-80148 VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND N64-10782 URINE EXCRETION EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY ON TISSUES OF DOG EYE CORTICOSTEROID LEVELS A64-80636 AMRL-TDR-63-120 SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND DOG EXPOSED TO PROLONGED VIBRATION WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE D3-3512-4 N64-15855 A64-80725 VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT ON OPERATOR PERFORMANCE - ABSTRACTS A64-80763 N64-16674 PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO EFFECTS OF VIBRATION AND IONIZING RADIATION ON VIBRATION STRESS OF SPACE FLIGHT VESTIBULAR AND MOTOR-DEFENSE REFLEXES N64-11698 N64-23761 VIBROCARDIOGRAM EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT TIMING AND WAVEFORM VARIATIONS OF VIBROCARDIOGRAMS AND SURVIVAL OF ALBINO RAT FROM MULTIPLE POSITIONS ON PRECORDIUM REPT.-5 N64-29583 A64-22816 EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON VIBROCARDIOGRAM VARIATIONS OVER PRECORDIUM AND BLOOD CHANGES IN WHITE RATS SOUND TRANSMISSION RATE A64-80689 FTD-TT-64-242/1 TESTING HEART FUNCTION BY ANALYSIS OF ITS WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY PRECORDIAL VIBRATION SPECTRUM CORTICOSTEROID LEVELS IN MAN NASA-CR-53818 N64-19313 AMRL-TDR-64-53 N64-31942 MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG DOGS TO WHOLE-BODY VIBRATION N64-21346 AMRL-TDR-64-54 N64-31943 VIGILANCE VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL AFTEREFFECT OF SLEEP DEPRIVATION ON VIGILANCE AND CHOICE SERIAL REACTION RELATED TO DISTURBED DIURNAL RHYTHM A6 READING CAL-VH-1838-E-1 N64-32208 864-12944 VIBRATION MEASURING APPARATUS VIGILANCE TEST SHOWING EFFECT OF EVENT RATE ON VIEROGRAPH MEASUREMENT OF OVERALL VIBRATION OBSERVATION PERFORMANCE AND NOTING DECISION THEORY N64-22730 A64-15474 APPROACH YIERATION PERCEPTION HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING NUMBER OF CODE SIGNALS AFFECT LEARNING TIME FOR AUDITORY DETECTION, VISUAL DETECTION AND TACTILE COMMUNICATION COMBINATION OF BOTH A64-16199 A64-26849 VIBRATORY THRESHOLD AS AFFECTED BY AGING AND VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN IMPAIRMENT OF PERIPHERAL CIRCULATION PERFORMANCE FOR VIGILANCE TASKS A64-80002 A64-26850 VIBRATION PROTECTION TASK PERFORMANCE MEASUREMENTS EXAMINING EFFECT OF VIBRATION STRESS REVIEWED WITH RESPECT TO BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES INSERTED ARTIFICIAL SIGNALS AND RESPONSE COMPLEXITY ON VIGILANCE A64-26857 A64-80148 SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION VIBRATIONAL FREQUENCY MANS SHORT TIME TOLERANCE TO SINUSOIDAL VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN A64-80078 THREE ORTHOGONAL AXES A64-27596 AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS **VOCAL SOUND PITCH VARIATIONS OBSERVED FROM** PHS-G-GM-05385 A64-80129 VIBRATIONS IN TRACHEAL OUTER WALL E-T-J-63-5 AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT LOW SIGNAL FREQUENCY A64-80 N64-15374 A64-80130 VIBRATIONAL STRESS BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM AND 5 MM AMPLITUDE UPON WATER METABOLISM OF DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS UNDER DIFFERENT SCHEDULES A64-80201 HEALTHY MALE SUBJECT 464-19170 MAINTENANCE OF VIGILANCE IN AN AUDITORY VIBRATIONAL STRESS ON PLASMA AND URINARY MONITORING TASK A64-80203 CORTICOSTEROID LEVELS A64-22064 MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED HUMAN BODY RESPONSE TO ACCELERATION, VIBRATION AND

A64-28345

IMPACT IN PRESENCE OF OTHER STIMULI

HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION.

VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY

BODY TEMPERATURE

FLASH RATE

REVIEW OF VIGILANCE STUDIES

VIGILANCE AS FUNCTION OF SIGNAL FREQUENCY AND

A64-80272

A64-80377

A64-80439

	PROBLEMS OF WEIGHTLESSNESS, VIGILANCE, AND DEPRIVATION IN MANNED SPACE FLIGHT		INOCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST	N/4 12244
	•	A64-80484	LF-10	N64-13344
	VIGILANCE PERFORMANCE INFLUENCED BY THREE DIFFERENT TYPES OF KNOWLEDGE OF RESULTS		EXAMINATION OF GROUND SQUIRREL EXCRETION ANIMAL & BACTERIAL VIRUSES TN-62-12	FOR N64-13988
	•	A64-80589		
	VIGILANCE PERFORMANCE IN COMPLEX TASK SITUAND WITH PARTIALLY REDUNDANT CUTANEOUS IN INPUT		INFLUENCE OF HIBERNATION ON COXSACKIE VII INFECTIONS IN ALASKAN GROUND SQUIRREL AAL-TDR-63-25	RUS N64-31935
	CORTICAL EVOKED POTENTIALS AND ATTENTIVEN RELATED TO SIGNAL DETECTION IN VIGILANCE		CHEMICAL COMPOSITION OF UREA-EXTRACTABLE COMPONENTS OF PLAGUE VIRUS EV JPRS-26858	N64-32165
	ALERTED EFFECTIVE THRESHOLD IN AUDITORY VIGILANCE TASK	VI A64-80662	SCERA EFFECT OF ANESTHESIA, HIGH OXYGEN AND FE RESONANT FREQUENCIES OF VISCERAL ORGANS	EDING ON
	PHYSICAL AND PSYCHOPHYSIOLOGICAL ASPECTS AS RELATED TO VIGILANCE	A64-80719	AMRL-TDR-64-14	N64-22328
	COMPARISON OF SUBJECTIVE AND OBJECTIVE DATA VISIBILITY EYE ACTIVITY IN VISUAL SEARCH SITUATIONS, NOTING			
	PERTAINING TO VIGILANCE TESTS, PSYCHOMOTO		RELEVANCE TO VISIBILITY PROBLEM	A64-17622
	EYE MOVEMENTS RECORDED DURING VIGILANCE	A64-80795	OBJECT CLASSIFICATION DISCUSSED AS PRACT FOR VISIBILITY ENGINEERING	ICAL TOOL A64-17625
	BEHAVIOR IMPAIRMENT DUE TO STRESS - EXPER LONG-TERM PERFORMANCE OF 21 HOURS	IMENT IN A64-80798	SATELLITE TO SATELLITE VISIBILITY OF CRE HUMAN PERFORMANCE	WMEN - N64-30721
	VIGILANCE DECREMENT AS FUNCTION OF PRETES		GEOGRAPHICAL ORIENTATION, OPERATIONAL PR HUMAN PERFORMANCE DURING VIBRATION, AND AND GEOMETRIC PARAMETERS AFFECTING VISIB LOW ALTITUDE HIGH SPEED FLIGHT	PHYSICAL
	NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT	IN	ACR-95	N64-31508
	RELATION TO VIGILANCE, MOVEMENT, SLEEP, A	ND A64-81028	EFFECTS OF PHYSICAL AND GEOMETRIC PARAME HUMAN VISUAL LIMITATIONS ON VISIBILITY D	URING
	SLEEP DEPRIVATION EFFECT ON HEART RATE AN PERFORMANCE IN MAN	A64-81114	LOW ALTITUDE HIGH SPEED FLIGHT SIBLE RADIATION	N64-31511
	VISUAL MONITORING PERFORMANCE AS INFLUENC SECONDARY TASK OF SIMPLE MENTAL ARITHMETI	ED BY	SPECTRAL RADIATION HUE IN TERMS OF WAVEL THREE RETINAL ECCENTRICITIES, USING COLD METHOD	
	VISUAL REACTION TIME RELATED TO EXPECTANC STIMULUS	Y OF VI A64-81151	SION SA MIOSIS CF BINOCULAR VISION	
	VISUAL AND AUDITORY VIGILANCE DURING EXPO	SURE TO A64-81191	CF EYE CF STEREOSCOPIC VISION ACCOMMODATION AND CONVERGENCE CONSIDERED	WITHIN
	CONDITIONS AFFECTING VIGILANCE BEHAVIOR A	ISE	CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRON FUNCTION OF EXOPHORIA AND HYPEROPIA.	
HUMRRO-RB-10 N64-13106 A04-80026				
	EFFECT OF REFERENCE DISPLAY ON HUMAN DETE PERFORMANCE IN VISUAL VIGILANCE TASK TR-750-2	N64-20409	FOVEAL ABSOLUTE VISUAL THRESHOLD FOR SHO FLASHES SUBTENDING SMALL AREA OF VISUAL	
	HUMAN PERFORMANCE IN LONG TESTS OF VIGILA	ANCE USING	ACCELERATION TOLERANCE, ACCELERATION PRO AND EFFECTS OF ACCELERATION ON VISION AN ORIENTATION	OTECTION, ND A64-80143
	ESD-TDR-63-320	N04-21001		
	RELATION OF HUMAN PERFORMANCE IN AUDITORY VIGILANCE TO CHANGES IN REINFORCEMENT TR-19	Y N64-27097	PHYSIOLOGICAL EXPLANATION OF WATERFALL P AND FIGURAL AFTEREFFECTS	PHENOMENON A64-80194
	EFFECTS OF VISUAL DISPLAY MODE AND MONITO PERFORMANCE IN COMPLEX VIGILANCE TASK		REACTION TIME UNDER THREE VIEWING CONDIT BINOCULAR, DOMINANT EYE, AND NONDOMINANT	TIONS - T EYE A64-80229
	SAM-TDR-64-34	N64-29794	VISUAL PROBLEMS OF SPACE FLIGHT AND EXPE	ERIENCE OF
/)	INYL POLYMER		RUSSIAN AND AMERICAN ASTRONAUTS	A64-80278
	POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN B	DDY N64-10039	DEPTH PERCEPTION FROM BINOCULAR DISPARTS	ΤY
	20116			A64-80318
•	IRUS INHIBITING ACTION OF DEDXYRIBONUCLEASE C	N	VISUAL PROBLEMS FACING ASTRONAUTS IN ORE	
	ADENOVIRUSES JPRS-22050	N64-12883	FLIGHT	A64-80462
	INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ADENOVIRUSES IN TISSUE CULTURE		RECOVERY TIME AFTER EXPOSURE TO GLARE S FUNCTION OF DURATION, INTENSITY, AND CO	TUDIED AS NTRAST A64-80601
			WICHAL AND AUDITORY CTIMUM I EFFECTS ON	
	THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE I TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS	N N64-12885	VISUAL AND AUDITORY STIMULI EFFECTS ON GASTROINTESTIMAL MOTILITY	A64-80613

SUBJECT INDEX VISUAL DISPLAY

LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-80834

EYE FIXATION CONTROL BY AUDITORY FEEDBACK
A64-8090

SIMULTANEOUS BRIGHTNESS CONTRAST IN PERIPHERAL AND FOVEAL VIEWING OF TEST PATCHES A64-81003

IONIZING RADIATION EFFECT ON VISUAL PATHWAY $\boldsymbol{\epsilon}$ EYE OF CAT

UCRL-11005 N64-11097

ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION N64-11396

DISARRANGED EYE-HAND COORDINATION

N64-22061

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
015R-3 N64-22241

HIGH OXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY SAM-REVIEW-3-64

N64-26269

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE APR-2 N64-32379

VISUAL ACCOMMODATION

ACCOMMODATION AND CONVERGENCE CONSIDERED WITHIN CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS FUNCTION OF EXOPHORIA AND HYPEROPIA.

A64-80026

ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION
A64-80141

KINETIC VISUAL ACUITY IN PILOT SELECTION AND EVALUATION OF FATIGUE A64-80315

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC
EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED
RATS - ELECTRIC RESISTANCE IN SECTION OF
PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES

TDR-2 N64-33459

VISUAL ACUITY

CF MYOPIA
PILOCARPINE MIOSIS AS CHORIORETINAL BURN
PROTECTION FROM HIGH INTENSITY LIGHT TO STUDY
VISUAL ACUITY
A64-22056

FLASHBLINDNESS PROBLEMS EVALUATED, DISCUSSING RELATION OF ADAPTATION OF EYE TO CHANGING LIGHTING CONDITIONS AND RECOVERY OF SENSITIVITY TO FUNCTIONAL LEVEL A64-25555

RETINAL AREA AND STIMULUS INTENSITY RELATIONSHIP
TO HUMAN REACTION TIME A64-27752

CORTICAL POTENTIALS EVOKED BY PHOTIC STIMULATION AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN A64-80003

SCCTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED
BODY POSITION A64-80140

IMPROVEMENT OF PERIPHERAL VISUAL ACUITY IN BOTH EYES FOLLOWING AUDITORY STIMULATION

A64-80189

KINETIC VISUAL ACUITY IN PILOT SELECTION AND EVALUATION OF FATIGUE A64-80315

CORMEAL CONTACT LENSES FOR FLYING PERSONNEL IN MILITARY AVIATION - CLINICAL EVALUATION A64-80401

OBJECTIVE MEASUREMENT OF VISUAL ACUITY BY NEW METHOD A64-80512

ABILITY TO DISCRIMINATE SMALL SPATIAL SEPARATIONS IN MOVING VISUAL TARGET /DYNAMIC VISUAL ACUITY/ AND EFFECT OF INCREASING TARGET VELOCITY AND EXPOSURE TIME A64-80832

DISADVANTAGE OF PREDOMINANCE OF ANTICOMPENSATORY
EYE MOVEMENTS DURING RAPID HORIZONTAL ROTATION OF
HEAD A64-80862

EYE MOVEMENTS INVESTIGATED IN RELATION TO VISUAL ACUITY FOR MOVING OBJECT A64-81032

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS WITH NORMAL VISION AND WITH VARIOUS VISUAL ANOMALIES A64-81033

THEORETICAL TOTAL REFRACTION INDEX OF UNACCOMMODATED LIVING EYE CALCULATED FROM SIMPLE OPTICAL MODEL A64-81075

VISUAL PROBLEMS OF LUMINESENCE, MOTION, AND DESIGN IN COSERVING SATELLITE FROM ANOTHER SATELLITE A64-81162

HYPEROPIA, MYCPIA, AND ASTIGNATISM - DIAGNOSIS AND EVALUATION OF PHYSICAL FITNESS FOR OCCUPATIONAL OPERATION OF VEHICLES A64-81296

VISUAL AID

VISUAL GUIDANCE AIDS FOR MANUAL FLIGHT CONTROL
A64-23298

HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING PILOTS LINE OF SIGHT AS HEAD ROTATES

A64-24832

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS SC-4959/M/ N64-14997

VISUAL CONTROL

VISUAL CAPABILITIES IN ACQUISITION, HOMING AND DOCKING PHASES OF SPACECRAFT RENDEZVOUS

A64-10634

PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE— STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR NASA-TN-D-2036 N64-12715

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN NASA-CR-56896 N64-27889

YISUAL CUE

SUAL CUE
MOON ILLUSION TESTED UNDER SIMULATED CONDITIONS
PROVIDING VARIETY OF VISUAL CUES

A64-80623

VISUAL DISCRIMINATION RECOVERY

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE
WHETHER THERE IS A CONSISTENT RELATIONSHIP
BETWEEN VISUAL DISCRIMINATION RECOVERY AND
INTENSITY OF DAZZLING FLASH

A64-13511

BLEACHING OF RETINAL PHOTOSENSITIVE PIGMENTS AND RELATION TO AFTERIMAGES AND VISUAL THRESHOLDS IN DARK ADAPTATION A64-19573

TIMING OF SCANNING PROCESS USED TO ANALYZE HUMAN PERCEPTION AND THOUGHT MECHANISMS INVOLVED IN VISUAL SEARCH AND DISCRIMINATION

A64-20838

VISUAL DISPLAY

COLOR CODING AND VISUAL SEPARABILITY IN INFORMATION DISPLAYS

A64-14012

NOISE BURST EFFECT ON PERFORMING TASK OF SEARCHING VISUAL DISPLAY IN WHICH RANDOM NUMBERS WERE PRESENTED AT RATE OF FIVE PER SECOND

A64-16710

INPUT FACTORS AFFECTING ACCURACY WITH WHICH OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET DISPLAYS A64-21610

HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS

A64-22062

HEAD MOUNTED ELECTROCULAR DISPLAY SYSTEM COMPARED WITH CONVENTIONAL CONSOLE DISPLAY FOR TARGET DETECTION

TRUE AND FALSE KNOWLEDGE OF RESULTS EFFECT ON DETECTING BRIEF PAUSES IN MOVEMENT OF CLOCK HAND A64-25479

VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN PERFORMANCE FOR VIGILANCE TASKS

A64-26850

464-19526

PRACTICE AND EXPOSURE TIMES EFFECT ON DIAL READING, COMPARING CIRCULAR AND LINEAR SCALES FOR A64-26855 ACCURACY

CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMOTE CONTROLLED LUNAR LANDING SIMULATION A64-27808

VIGILANCE AS FUNCTION OF SIGNAL FREQUENCY AND FLASH RATE A64-80439

COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS A64-80603

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION PERFORMANCE IN VISUAL VIGILANCE TASK N64-20409 TR-750-2

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH FTD-TT-63-1190/18284 N64-26212

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK SAM-TDR-64-34 N64-29794

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS USAPRC-TRN-145 N64-29947

VISUAL FIELD POSITION AND FORM EFFECTS ON COMBINATION OF INFORMATION IN SUPERIMPOSED VISUAL FIELDS SHOWN FROM PILOT PERFORMANCE OF CONCURRENT TASKS

VISUAL FIELD LOSS PATTERN DURING POSITIVE ACCELERATION DEMONSTRATED AND REFINED WITH PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER A64-27604

LEFT-RIGHT CIFFERENCES IN TACHISTOSCOPIC RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE PRESENTATION OF STIMULI A64-80063

HANDEDNESS AND DIFFERENTIAL PERCEPTION OF VERBAL STIMULI IN LEFT AND RIGHT VISUAL FIELDS A64-80202

COLD STRESS - REGULATION AND DISTRIBUTION OF REFLEX MUSCLE ACTIVITY IN MAN A64-80344

PERCEPTUAL MECHANISMS AIMED AT ERROR-CORRECTION A64-80471

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

MANIFEST ANXIETY RELATED TO PHENOMENON OF NARROWING VISUAL FIELD WITH INCREASE IN DISTANCE A64-81196

SEMANTIC ATTRIBUTES OF HOMOGENEOUS VISUAL AND RIVALRY FIELDS A64-81214

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION MR-64-1 N64-32299

VISUAL DISTANCE ESTIMATION IN SPACE, USING ANGULAR SUBTENSE AND ILLUMINANCE AND LUMINANCE OF

CELESTIAL AND ORBITAL BODIES

A64-10624'

VISUAL OBSERVATIONS BY PILOTS OF AMERICAN AND A64-10625 SOVIET SPACECRAFTS

VISUAL OBSERVATION BY AN ASTRONAUT OF ANOTHER SPACE VEHICLE FOR SPACECRAFT RENDEZVOUS PURPOSES A64-10626

MANNED SPACECRAFT FOR SURVEILLANCE AND RECONNAISSANCE USING UNAIDED VISION AND MAN-PERISCOPIC VISION A64-10632

VISIBILITY PREDICTION, USING DATA ON HUMAN VISUAL PERFORMANCE CAPABILITIES A64-17621

OBJECT CLASSIFICATION DISCUSSED AS PRACTICAL TOOL FOR VISIBILITY ENGINEERING A64-17625

VISUAL DETECTION LOBES IN CALCULATING DETECTION PROBABILITY IN VISUAL SEARCH STRATEGIES A64-17626

ENVIRONMENTAL EFFECTS ON HUMAN VISUAL OBSERVATION OF SATELLITE FROM ANOTHER SATELLITE WHILE IN

ORBITAL FLIGHT A64-18321 DESARGUESIAN PROPERTY IN VISUAL SPACE VERIFIED, USING POLARIZATION STEREOSCOPIC TECHNIQUE

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT

MANEUVERS SAM-TDR-63-78 N64-12677

PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY

N64-16327

A64-10251

A64-10629

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION NAVTRADEVCEN-1303-3 N64-26953

VISUAL PERCEPTION SA FORM PERCEPTION CF ELEVATOR ILLUSION CF FIGURAL AFTEREFFECT
MEASUREMENT OF AMPLITUDES OF VISUAL ACCOMMODATION
UNDER RED AND WHITE ILLUMINATION LEVELS
APPROXIMATING COCKPIT CONDITIONS

INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION

FOR MANNED SPACE FLIGHT A64-10628

VESTIBULAR STIMULATION EFFECTS ON VISUAL PERCEPTION FROM MANNED SPACE FLIGHT

LIGHTING REQUIREMENTS OF GENERAL CREW STATIONS FOR MANNED SPACECRAFT A64-10630

SPACE CABIN ATMOSPHERE CONTAMINANTS EFFECT PARTICULARLY OZONE, ON VISUAL PERCEPTION A64-10631

PHOTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM A64-12989

COLOR CODING AND VISUAL SEPARABILITY IN INFORMATION DISPLAYS A64-14012

VIBRATION EFFECTS ON THE VISUAL ACUITY OF MAN

VARIATION OF VISUAL PERCEPTION OF PERCEIVED FRONTOPARALLEL SIZE AND DEPTH WITH OBSERVATION A64-15170 DISTANCE

VISUAL POTENTIALITIES OF MAN IN SPACE

A64-16118

EFFECT OF SEASONAL CHANGES OF NATURAL BACKGROUND COLORS ON AIRCRAFT VISIBILITY OF AIRFIELD DISTANCE A64-19172

VISUAL PROBLEMS IN SPACECRAFT DOCKING INCLUDING ASTRONAUTS CAPABILITIES AND LIGHT EFFECTS ON

TARGET AIAA PAPER 64-221

A64-20103

PILCCARPINE HIGSIS AS CHORIORETINAL BURN
RRCTECTION FROM HIGH INTENSITY LIGHT TO STUDY
VISUAL ACUITY
A64-22056

PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE
PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM
MANUALLY CONTROLLEC VEHICLES A64-23300

SENSORY AND PERCEPTUAL DEPRIVATION EFFECTS ON BEHAVICRAL AND PHYSIOLOGICAL EFFECTS

A64-25432

CELCR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE A64-25825

VISUAL ILLUSIONS OF MOTION USING FLASHING LIGHTS AND THEIR ASSISTANCE IN CLARIFYING NEURAL MECHANISMS A64-26707

HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING AUDITORY DETECTION, VISUAL DETECTION AND COMBINATION OF BOTH A64-26849

LEFT-RIGHT DIFFERENCES IN TACHISTOSCOPIC
RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE
PRESENTATION OF STIMULI
A64-80C63

FIGURAL AFTEREFFECTS INFLUENCED BY EXPOSURE VARIABLES IN TACHISTOSCOPIC PRESENTATION

A64-80C7

A64-80165

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE OF COULAR AND NECK MUSCLES A64-80072

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY

A64-80131

NOISE EFFECT CN DETECTION OF VISUAL SIGNALS
A64-80149

VIERATION EFFECTS ON VISUAL PERFORMANCE

ELEVATOR ILLUSION DESERVED IN FLIGHT DURING

SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION A64-80174

DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS UNDER CIFFERENT SCHEDULES A64-80201

VISUAL PERCEPTION OF MOVEMENT AND ILLUSIONS
CONSIDERED FROM VIEWPOINT OF AEROSPACE MEDICINE
A64-B0214

VISUAL CONSTANCY DURING FORWARD AND BACKWARD MOVEMENT OF SUBJECTS A64-80288

PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MCCALITIES A64-80289

INTERSENSORY AND INTRASENSORY EFFECT IN SIMPLE REACTION TIME A64-80290

VISUAL REACTION TIME AS FUNCTION OF INTENSITY— TIME RELATION OF STIMULUS A64-80322

REACTION TIME AS FUNCTION OF INTERVAL BETWEEN TWO CONSECUTIVE SIGNALS A64-80347

REVIEW OF VIGILANCE STUDIES A64-80377

VISUAL PERCEPTION STUDIES ANALYZED FOR GENERALIZATION TOWARD THEORY OF HUMAN PERCEPTION

A64-R0379

VISUAL PRCELEMS FACING ASTRONAUTS IN ORBITAL FLIGHT A64-8C462

VISUAL PATTERN RECOGNITION AS FUNCTION OF REDUNCANCY A64-80473

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY
RESTRICTION ON DOG A64-80493

SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL SENSATIONS IN PERCEPTUAL ISOLATION

A64-80510

SUBLIMINAL PERCEPTION - LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY A64-80571

PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT MOVEMENT AS FUNCTION OF BACKGROUND STIMULI A64-80580

FIGURAL AFTEREFFECT STUDIED BY TACHISTOSCOPIC EXPOSURES OF STIMULI A64-80586

SUGGESTION - INFLUENCE OF INSTRUCTION ON PERCEPTION OF AUTOKINETIC EFFECT

A64-80617

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

RETINAL RESPONSES OF DARK ADAPTED MONKEYS, MACACA MULATTA, DURING STIMULATION WITH LIGHT

A64-80672

SHORT TERM STORAGE OF VISUAL INFORMATION AND PROPERTY OF MEMORY READ-OUT A64-80705

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL, AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

VISUAL SYSTEM - SYNCHRONOUS AND CONSECUTIVE INFORMATION PROCESSING A64-80778

MONOCULAR SLANT PERCEPTION AND TEXTURE GRADIENT CONCEPT A64-80781

WEBERS LAW AND NOISE - DISCRIMINATION OF BRIGHTNESS AND OTHER DIMENSIONS

A64-80810

HUMAN ADAPTION TO LONGTERM EXPOSURE TO OPTICAL DISTORTION PRODUCED BY MEDGE PRISM

A64-B0894

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY SENSATIONS A64-80897

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING VISUAL STIMULI A64-80925

TWO ADAPTATION PROCESSES TO ACTIVE AND PASSIVE EXPOSURE TO OPTICALLY ROTATED VISUAL FIELD A64-80933

SPATIOTEMPORAL RELATIONS IN AFTEREFFECTS OF I-FIGURE ON CRITICAL FLICKER FREQUENCY

A64-80934

VISUAL DISCRIMINATION OF FORM BY HUMANS IN CARD SORTING AND TACHISTOSCOPIC EXPOSURE TASKS

A64-80968

APPARENT DISTANCE IN HORIZONTAL PLANE WITH TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE PERCEPTION A64-80969

SIMULTANEOUS BRIGHTNESS CONTRAST IN PERIPHERAL AND FOVEAL VIEWING OF TEST PATCHES A64-81003

TIME-INTENSITY RELATION IN VISUAL PERCEPTION AS FUNCTION OF OBSERVERS TASK A64-81040

SPEED OF VISUAL SIGNAL PRESENTATION AND EFFECT ON VELOCITY AND ACCURACY OF RESPONSE A64-81060

VISUAL AFTERIMAGE PROLONGED BY POST-STIMULATION CONDITION IN VISUAL FIELD A64-81076

CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS PHENOMENA A64-81134

ADULT PERCEPTION OF HORIZONTAL BY BOTH SEXES AS COMPARED TO CHILDREN A64-81136

CHANGES IN DISTANCE JUDGMENTS AS RELATED TO CORRECTED AND NONCORRECTED PRACTICE

A64-81137

SLANT PERCEPTION RELATED TO ESTIMATE OF AVERAGE SIZE OF TEXTURE ELEMENTS IN VISUAL PATTERN

SLANT PERCEPTION - GESTALT, HELMHOLTZ, AND GIBSON THEORIES A64-81159

SET AND SHOCK-STRESS EFFECT UPON ILLUSION
PERCEPTION IN HUMAN
A64-81183

SPATIAL AFTEREFFECTS WITHIN AND BETWEEN KINESTHESIS AND VISION A64-81197

INTERACTIVE EFFECTS WITHIN VISUAL PATTERN ON DISCRIMINABILITY OF INDIVIDUAL ELEMENT A64-81198

CODING STRATEGY EFFECT ON PERCEPTUAL MEMORY
A64-81199

OPTICAL BASIS PROPOSED FOR MONOCULAR SLANT PERCEPTION A64-81202

SEMANTIC ATTRIBUTES OF HOMOGENEOUS VISUAL AND RIVALRY FIELDS A64-81214

AUDITORY-VISUAL DIFFERENCES IN TIME JUDGMENT MAINTAINED WITH WHITE LIGHT AND WHITE SOUND STIMULI A64-81217

RELATIONSHIP BETWEEN APPARENT SIZE AND DISTANCE STUDIED UNDER CONDITION OF REDUCTION OF CUES A64-81298

BISECTION OF DESIGNATED VISUAL SPACE AS FUNCTION OF LUMINANCE AREA AND SEPARATION OF FIDUCIAL LINES A64-81300

INTERMANUAL TRANSFER OF ADAPTATION TO PRISMS IN HUMAN A64-81302

SIZE CONSTANCY EFFECT ON DECREMENT OF CRITICAL FLICKER FUSION WITH REDUCED RETINAL SIZE OF STIMULUS A64-81328

LABORATORY STUDIES OF ABILITY OF OBSERVERS TO RERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING HSR-RR-63/7-MK-X N64-10444

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS
REQUIRED IN APPROACH AND LANDING
N64-10445

ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER

HSR-RR-61/13-MK-X

JPRS-18126 N64-10742

PRCBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION JPRS-18719 N64-10786

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION N64-11533

VISUAL PERCEPTION STUDIES & PSYCHOLOGY JPRS-19615

PRS-19615 N64-125C4

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-125C5

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION N64-125C6

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS

N64-12524

VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS 18-31403 N64-13108

THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS ESD-TDR-63-136 N64-13656

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287 N64-13846

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS N64-15047

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
CARI-63-10 N64-15165

WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE D3-3512-4 N64-15855

VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION BETWEEN PERCEIVED & PHYSICAL DISTANCE CARI-63-20 N64-17235

COLOR VISION THEORY N64-18829

THRESHOLD OF VISUAL DETECTION OF ACCELERATED MOTION
AFOSR-64-0189
N64-21381

STIMULATION DUE TO SELF-INDUCED MOVEMENT IN PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT N64-21727

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438

RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL ANALYZER IN BINOCULAR VISION AND VISION DISTURBANCE - ELECTROENCEPHALOGRAPHY

N64-25136

ROLE OF EYE MOVEMENTS IN SPATIAL VISION

N64-25138

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION N64-25139

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS
N64-25140

INDIVIDUAL PECULIARITIES IN DEPTH PERCEPTION WITH OBJECT MOVING AWAY AND TOWARD SUBJECT

N64-25141

PERCEPTION AND REPRESENTATION OF SHORTEST DISTANCE ON PLANE AND CN SPHERE N64-25153

HUMAN ELECTRORETINGGRAPHY AS GAUGE OF VISUAL PERCEPTION
AD-602526 N64-25512

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION FPRC/MEMO-191 N64-25842

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MCTION FPRC-1207 N64-25847

NUCLEIC ACIDS AND VISUAL PERCEPTION STUDIES
JPRS-25824 N64-27062

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES NAVTRADEVCEN-IH-14 N64-2890

VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION -

PERSONNEL SELECTION
AD-442707 N64-29650

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS

N64-10446

FPRC-1209/B/

N64-29767

MORPHCLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG

N64-31462

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DGG

N64-31463

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRACEVCEN-789-3 N64-32037

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF N64-32779

DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION AB-447C92 N64-33690

VISUAL SIGNAL
SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION

A64-80078

REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING SIGNAL IN YOUTH AND OLD AGE A64-80164

REACTION TIME AS FUNCTION OF RELATIVE SIGNAL FREQUENCY 464-80364

PERCEPTUAL MECHANISMS AIMED AT ERROR-CORRECTION

CORTICAL EVOKED POTENTIALS AND ATTENTIVENESS AS RELATEC TO SIGNAL CETECTION IN VIGILANCE TASK A64-80619

JUDGMENT OF VISUAL AND AUDITORY SIGNAL DURATION A64-80849

SPEED OF VISUAL SIGNAL PRESENTATION AND EFFECT ON VELOCITY AND ACCURACY OF RESPONSE

A64-81060

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO HET AND HUMID CONDITIONS A64-8119 A64-81191

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTCMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL N64-30321

LAECRATCRY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS N64-30323

VISUAL STIMULUS

ACCLIMATIZATION AND OTHER EFFECTS OF ANCXIA VIA EEG, HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS THE VISUAL CORTEX OF RABBITS

MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL LUCALIZATION OF VISUAL STIMULI IN UP-DOWN DIMENSION OF SPACE A6

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND ISCTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS RESPONSES AS COMPARED TO MALE SUBJECTS UNDER SIMILAR CONDITIONS

VISUAL EVCKED POTENTIALS CAUSED BY STIMULI OF CENSTANT DURATION AND VARYING LUMINANCE AND BY FLASHES A64-26089

RETINAL AREA AND STIMULUS INTENSITY RELATIONSHIP
TO HUMAN REACTION TIME A64-277

SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR THREE RETINAL ECCENTRICITIES, USING COLOR NAMING A64-28417

CORTICAL PCTENTIALS EVOKED BY PHOTIC STIMULATION AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN A64-80003 LEFT-RIGHT DIFFERENCES IN TACHISTOSCOPIC RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE PRESENTATION OF STIMULI A6 A64-80063

FIGURAL AFTEREFFECTS INFLUENCED BY EXPOSURE VARIABLES IN TACHISTOSCOPIC PRESENTATION

A64-80071

DECLINE IN FLICKER FUSION FREQUENCY AFTER INTERMITTENT STIMULATION WITH LIGHT SIGNALS OR LETTERS A64-80091

TIME DISCRIMINATION - AUDITORY AND VISUAL TIME JUDGMENT A64-80358

ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRAOCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF LIGHT STIMULUS INTENSITY A64-80374

AMPLITUDE AND DURATION OF OCCIPITAL ELECTROENCEPHALOGRAPHIC RESPONSE TO DIFFERENT INTENSITIES OF FLASH STIMULATION

A64-80375

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI

A64-80496

RETINAL RESPONSES OF DARK ADAPTED MONKEYS, MACACA MULATTA, DURING STIMULATION WITH LIGHT

A64-80672

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS A64-R0683

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT A64-80871

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING 464-80925 VISUAL STIMULT

SUMMATION OF EVOKED POTENTIAL RHYTHM AS FUNCTION OF REPETITIVE FLICKER STIMULUS A64-81131

EVCKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM A64-81135

ADAPTATION OF GALVANIC SKIN RESPONSE UNDER REPEATED PRESENTATION OF VISUAL STIMULUS A64-81201

VISUAL DETECTION OF STIMULI WITH NOVELTY ATTRIBUTE ON BACKGROUND OF FAMILIAR SYMBOLS A64-81206

TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN JPRS-23946 N64-17806

EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/

EFFECT OF ADDING BODY MOTION CUES, PROVIDED BY VEHICULAR MOTION, UPON THE INTERPRETATION OF DUTSIDE-IN AND INSIDE-DUT VISUAL DISPLAY

SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR PERFORMANCE A64-12935

VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-1 N64-12522

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL **ENCODING - CYBERNETICS** N64-12523

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN JPRS-22735 N64-13582

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

STRUCTURAL CHANGES IN VISUAL ANALYZER OF MONKEYS
AFTER EXTIRPATION OF CERVICAL LOBES
JPRS-24800 N64-21043

VISUAL TASK
EYE ACTIVITY IN VISUAL SEARCH SITUATIONS, NOTING
RELEVANCE TO VISIBILITY PROBLEM

A64-17622

....

COMPUTER-AVERAGED POTENTIALS FOR CORTICAL EVOKED RESPONSES TO STIMULI DURING VISUAL VIGILANCE TASKS A64-2102

DISPLAY UPDATE RATE EFFECTS ON IMMEDIATE MEMORY OF HUMAN MONITOR IN CONTROL SYSTEM

A64-2663

N64-13583

DECLINE IN FLICKER FUSION FREQUENCY AFTER INTERMITTENT STIMULATION WITH LIGHT SIGNALS OR LETTERS A64-80C91

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS PHS-G-GM-C5385 A64-80129

VIBRATION EFFECTS ON VISUAL PERFORMANCE

A64-80165

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR IN JAVA MCNKEY A64-80335

PERCEPTUAL SPEED IN RELATION TO QUANTA CF SIMULTANEOUSLY PRESENTED MATERIAL IN VISUAL OR TACTILE TASKS A64-80655

VISUAL SIGNAL-FROM-NOISE DETECTION BY MCNKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND SODIUM PENTCBARBITAL A64-80906

VIGILANCE DECREMENT AS FUNCTION OF PRETEST EXPECTANCY A64-80938

EFFECTS OF COMPETITION BETWEEN PERIPHERY AND CENTER OF ATTENTION IN AUDITORY AND VISUAL TASKS

SLEEP CEPRIVATION EFFECT ON HEART RATE AND PERFORMANCE IN MAN A64-81114

TECHNIQUE FOR CONTROLLING SUGGESTION EFFECT DURING PERFORMANCE OF VISUAL TASK A64-81215

HUMAN BEHAVIOR - DISCRIMINATION OF PRIMARY AND SECONDARY VISUAL VIGILANCE TASKS AD-437334 N64-20318

VISUAL TRACKING
REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS
AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR
VISUAL PURSUIT
A64-12934

SAMPLED DATA MODEL FOR ACTION OF A CONTROL SYSTEM FOR DIRECTING HUMAN GAZE AT A MOVING TARGET

A64-14354

VARIATION IN VISUAL SEARCH PERFORMANCE, WITH CHANGING VELOCITY AND DENSITY OF OBJECTS IN A MOVING STRUCTURED FIELD A64-15168

VISUAL-OCULOMOTOR TRACKING IN MAN - CHARACTERISTIC ELECTROCORTICAL ACTIVITY A64-80494

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112 N64-14168

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION NASA-CR-21 N64-16534 EFFECTS OF CURVILINEAR AND DISCRETE
TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN
TRACKING PERFORMANCE
AMRL-TDR-63-137
N64-17510

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION NADC-AC-6406 N64-28696

ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING PERFORMANCE
AD-602861 N64-29762

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN
OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018

VITAMIN

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM
RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON
VITAMIN CONTENT OF RAT LIVER AND BRAIN
FTD-TT-63-1064/18284

N64-22363

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES NASA-TT-F-233 N64-26836

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD PR-14 N64-33993

VITAMIN B 01 S THIAMINE

VITAMIN 8 02 S RIBOFLAVIN

VITAMIN B 06 S PYRIDOXINE

VITAMIN C S ASCORBIC ACID

VITAMIN E S TOCOPHEROL

VITAMIN G S RIBOFLAVIN

VITAMIN H S BIOTIN

VITAMIN M S FOLIC ACID

VOCAL CORD

SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE
FILTERING PROCESSES OF TRACHEAL OUTER WALL
E-T-J-63-6

N64-14675

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY OF VOCAL CORDS N64-30394

VOICE COMMUNICATION
GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS
OF ASTRONAUTS
A64-13544

DETERMINATION OF NUMBER AND NATURE OF BASIC VOICES PERCEIVED TO DIFFER FROM EACH OTHER BY TYPICAL LISTENER A64-21333

INFORMATION RATE NECESSARY FOR ADEQUATE TRANSMISSION OF PITCH SIGNAL FROM SPOKEN MESSAGE A64-21731

SPEECH SIGNAL TRANSFORMATION FOR USE IN COMMUNICATIONS AND CYBERNETICS TECHNOLOGY

N64-15169

VOCAL SOUND PITCH VARIATIONS OBSERVED FROM
VIBRATIONS IN TRACHEAL OUTER WALL
E-T-J-63-5
N64-15374

HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47 ESD-TDR-63-656 N64-15752

SUBJECT INDEX WAKEFULNESS

MACHINE DISCRIMINATION OF SPEECH AND CARDIAC SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE AND HEART FUNCTION SOUND NASA-CR-53501

PERFORMANCE OF SINGLE & MULTIPLE VCICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE USAPRO-TRN-135 N64-21741

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY

STL-QPSR-3/1963/

VOICE DATA PROCESSING SYSTEM
AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC
VOICE PATTERN RECOGNITION
A64-26 A64-26640

VOLUNTARY APREA ALVECLAR CARBON DIOXIDE EQUILIBRIA IN BREATH-HOLDING EXPERIMENTS WITH HUMANS

A64-80741

MAXIMUM BREATH HOLDING TIME IN MAN AS AFFECTED BY PURE DXYGEN INHALATION, ALTITUDE, AND PRESSURE A64-80960

CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED A64-81243

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING N64-17934

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC VORTEX TUBE N64-23816

VOSTOK III SPACECRAFT RADIATION DOSES AND BIOLOGICAL EXPERIMENTS CONDUCTED DURING FLIGHTS OF VOSTOK III AND VOSTOK IV A64-23667

CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III AND IV 464-23669

FLIGHTS OF VOSTOK III AND VOSTOK IV

N64-16398

N64-21643

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT N64-21644

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-29093

WOSTOK IV SPACECRAFT RADIATION DOSES AND BIOLOGICAL EXPERIMENTS CONDUCTED DURING FLIGHTS OF VOSTOK III AND VOSTOK IV A64-23667 CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III 464-23669 AND IV

FLIGHTS OF VOSTOK III AND VOSTOK IV

N64-16398

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHTS N64-21642

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT N64-21644

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS NASA-TT-F-8823 N64-22936

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS N64-29093

VOSTOK V SPACECRAFT DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD VOSTOK V AND VOSTOK VI SPACESHIPS A64-18573

TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT N64-10068

RADIATION DOSE ON VOSTOK V AND VOSTOK N64-23865

EFFECT OF SPACE FLIGHT ON MICROSPOSES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091

VOSTOK VI SPACECRAFT DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD VOSTOK V AND VOSTOK VI SPACESHIPS

464-18573

TANDER FLIGHT OF VOSTOK V AND VI SPACECRAFT N64-10068

RADIATION DOSE ON VOSTOK V AND VOSTOK N64-23865 **SPACECRAFT**

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-N64-29091

VOSTOK SPACECRAFT MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA MELANOGASTER CARRIED BY VOSTOK SPACECRAFT A64-23670

WAKEFUL NESS ISOLATION AND SENSORY DEPRIVATION PHENOMENA RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION OF BIOLOGICAL RHYTHMS 464-80146

PHYSIOLOGY OF SLEEP-WAKEFULNESS CYCLE AND RELATED

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND ELECTRONYSTAGMOGRAPHIC RECORDINGS A64-80681

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT A64-80724

NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND AROUSAL A64-81028 ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

464-81067

WARNING SIGNAL REACTION TIME INFLUENCED DIFFERENTIALLY BY WARNING SIGNAL IN YOUTH AND OLD AGE 464-80164

REACTION TIME TO REGULARLY RECURRING VISUAL A64-80583

AGE FACTOR AND FORESIGNAL IN CHOICE REACTION TASK PERFORMANCE IN YOUNG AND AGED ADULT HUMAN A64-80972

WASTE DISPOSAL

CF METABOLIC WASTE WATER RECOVERY AND HUMAN WASTE DISPOSAL SYSTEMS FOR EXTENDED SPACE MISSIONS

REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN A64-80042 PROLONGED EXPERIMENTS

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

DISPOSAL OF DEAD ASTRONAUT IN SPACE

464-80197

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS SAM-TDR-64-13 N64-17958

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF

N64-23780

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS AAL-TDR-63-36 N64-32115

WASTE UTILIZATION

UTILIZATION OF URINARY NITROGEN BY CHLORELLA PYRENOIDOSA FOR BIOLOGICAL REGENERATION SYSTEM FOR LONG TERM SPACE FLIGHT A64-80828

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN SOURCE FOR CHLORELLA PYRENGIDOSA

A64-80945

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT R63SD83 N64-33604

WATER

CF BODY FLUID WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT 464-80134

MAN IN SPACE - FOOD, WATER, ENVIRONMENTAL REQUIREMENTS, WASTE UTILIZATION AND LIFE SUPPORT A64-80788

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION JPRS-19067

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TDR-63-59 N64-12855

ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS IN SPACE SUITS USING WATER AMRL-TDR-63-80

WATER & ION SHIFTS IN CENTRAL NERVOUS SYSTEM OF FROG - MORPHOLOGY N64-14593 SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR, WATER, AND FOOD N64-14924 HW-79652

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE NADC-MA-6328 N64-15755

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER N64-17956

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN SAM-TDR-64-28 N64-24141

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND DXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TDR-64-35 N64-27432

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE JPRS-26056

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033

SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE YIELD OF PORPHINE-LIKE SUBSTANCES

N64-29663

FRESH-WATER, BRACKISH-WATER, AND MARINE ECOLOGY OF FLORIDA EVERGLADES POASA-IM N64-30195

DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF **ECHINOCOCCUS** AAL-TDR-63-37 N64-32102

COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS, DISTILLED, AND VICHY WATER ON WATER TOXICITY N64-33392

DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY NASA-TT-F-9110 N64-33393

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112 N64-33395

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OSMOREGULATION NASA-TT-F-9115 N64-33397

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA NASA-TT-F-9125 N64-33401

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW AAL-TDR-63-35 N64-33524

WATER BALANCE

THIRST, HUNGER, ENVIRONMENTAL TEMPERATURE, AND PHYSICAL ACTIVITY AS RELATED TO BODY WATER A64-80547

BODY WATER BALANCE AS AFFECTED BY WATER INGESTION IN MAMMAL A64-80548

MINIMAL WATER REQUIREMENTS UNDER CONDITIONS OF HEAT AND PHYSICAL EXERCISE IN MAN

A64-80549

THIRST PREVENTION AND WATER RECOVERY FROM SEA WATER AND FROM URINE BY FREEZE-DRYING DURING PROLONGED SPACE FLIGHT A64-80550

BODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION TO WATER DEPRIVATION SCHEDULE A64-80552

RESTRICTED WATER INTAKE AS RELATED TO WATER BALANCE AND FOOD INTAKE IN RAT A64-80555

WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM

N64-13653

AND EFFICIENCY OF WORK IN NORMAL AND REDUCED TRACTION ENVIRONMENTS A64-22815

HIGH ALTITUDE EFFECTS ON QUALITATIVE AND QUANTITATIVE CHANGES IN MANS WORK CAPACITY

A64-23259

PHYSICLEGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO CXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

AGE IN RELATION TO DXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION

A64-80518

PRESSURE SUIT WEARING AS RELATED TO MORK CUTPUT, HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN A64-80688

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRCNCLOGICAL AGING CARI-63-18 N64-16728

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASCOLLATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY
PRESENTED RESULTS
TR-18
N64-27C96

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUCE + PHYSIOLOGY CARI-63-33 N64-2984

WORK DECREMENT

REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR VISUAL PURSUIT A64-12934

SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR PERFORMANCE A64-12935

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND ISCTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS RESPONSES AS COMPARED TO MALE SUBJECTS UNDER SIMILAR CONCITIONS A64-22812

MORK-REST CYCLE

RATE OF LEARNING ON PURSUIT ROTOR TASK AT CONSTANT WERK-REST RATIO WITH VARYING WORK AND REST PERICOS A64-80782

RECOVERY FROM DECREMENT AS FUNCTION OF WORK-REST PERIOD A64-80904

DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N64-10534

PSYCHCLCGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-C-2065 N64-14519

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TCR-64-63 N64-31827

X

X-RAY

COMPARATIVE BIDLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521 N64-10326

RACIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND GLECTRCKYMCGRAPHS
JPRS-17533 N64-10561

EFFECTS OF CHRONIC IRRACIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERCOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD

N64-12750

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-13502

INFLUENCE OF RADICACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS
N64-19150

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732

X-RAY FLUORESCENCE

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863

Y-DAY IDDANIATION

X-RADIATION EFFECTS ON BLOOD CELL CYTOPLASM, NOTING INCREASE IN DOSAGE AND DAMAGE WITH DURATION OF EXPOSURE A64-11438

BIGLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B CELLS A64-22813

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT STATES OF SPERMATOGENESIS A64-27144

NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG A64-80332

ELECTRIC FIELD EFFECT ON ACTIVITY AND RADIATION STRESS IN MICE A64-80334

TOLERANCE OF MICE X-IRRADIATED IN HYPEROXIC ENVIRONMENT TO EXPLOSIVE DECOMPRESSION

A64-80441

METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO INCUBATED IN HELIUM-OXYGEN ATMOSPHERE

A64-80852
RECOVERY OF REPRODUCTION CAPACITY OF X RAY

IRRADIATED YEAST CELLS
JPRS-21619 N64-10118

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS
JPRS-19806 N64-11353

ICNIZING & X-RAY RADIATION EFFECTS ON MICE GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421 N64-11355

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY
CHANGES OF THIOL GROUPS IN LIVER OF X-RAY
IRRADIATED MICE
JPRS-22125
N64-11359

X-RAY IRRADIATION EFFECT ON PROTHROMBIN AND THROMBOPLASTIC FORMATION IN BLOOD COAGULATION SYSTEM N64-11608

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS OF DOG UCC-107 N64-12111

ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION, ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS
JPRS-22213
N64-12139

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE RADC-TDR-63-352 N64-12270

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY
JPRS-22154
N64-12747

SUBJECT INDEX YOUNGS MODULUS

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY IRRADIATION N64-12796

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION JPRS-22082 N64-12886

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE

N64-12887

EFFECT CF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL GAGES AFTER SINGLE X-RAY DOSE N64-13509

INCREASED DESCXYRIBONUCEASE ACTIVITY UNDER X-RAY IRRADIATION IN LIVER & SPLEEN N64-13694

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRACIATION N64-14253

TOTAL ECCY X-IRRADIATION OF BIRDS OF DIFFERENT SPECIES

JPRS-23169 N64-15153

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND CRGAN PERMEABILITY CHANGES N64-15681

EFFECT OF INJECTION OF BONE MARROW CELLS ON MCRPHCLCGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE
JPRS-24056 N64-18096

INJURIES FROM X-IRRADIATION JPRS-24185

N64-18967

BICELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY FTC-TT-63-231 N64-22646

NAPPING CF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION

N64-22852

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF COGS UCC-472-109 N64-25111

X-RAY IRRACIATION EFFECT ON DEVELOPMENT OF ENZYME

X-RAY IRRALIATION EFFECT ON DEVELOPMENT OF ENZYME ACCTIVITY IN LIVER OF YOUNG RATS SAM-TDR-64-29 N64-2534

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DECXYRIBCSIDE IN MAMMALIAN CELLS
NASA RP-245 N64-27352

MORTALITY CF RAT FETUS AFTER IRRADIATION OF RARENTAL GAMETES
NASA 1T-F-9036 N64-27369

INACTIVATION AND RECOVERY OF MICROCRGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786

X-RAY PRCIECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES N64-32583

X-RAY PHOTOGRAPHY

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES
SAP-TCR-63-93 N64-12865

%-RAY SCATTERING
GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL
RACIOGRAPHY
N64-23275

X-RAY SPECTROSCOPY
X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS

IN BLOOD SERUM UCRL-10873

N64-15242

X-15 AIRCRAFT

SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY
IN X-15 AIRCRAFT A64-22635

HEADWARD TO FCOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD IMPACTS A64-80858

PILCT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT TO HIGH ALTITUDE NASA-TN-D-2289 N64-19002

X-20 AIRCRAFT

PILOT TRAINING PROGRAM FOR THE HYPERSONIC X-20
AIRCRAFT COVERING GROUND TRAINING, FLIGHT
SIMULATOR AND X-15 EXPERIENCE
A64-11341

FEASIBILITY OF PILOT CONTROL OF THE X-20/
TITAN III BCOSTER, GIVING RESULTS OF SIMULATION
WITH BOOST CONSTRAINTS

A64-12899

DYNA SOAR COCKPIT AND CREW PROTECTION SYSTEMS
DESIGN, NOTING IMPORTANCE OF PILOT PARTICIPATION
A64-24715

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS N64-28565

XENON

S RARE GAS

XENON LIGHT

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE SAM-TDR-64-36 N64-33352

Υ

YAW ATTITUDE

SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL,
PITCH, AND YAW CURING ROTATIONAL STIMULI EXPOSURE
A64-80861

YEAST

CRITICAL DXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS RELATED TO THE DEGREE OF OXIDATION OR REDUCTION OF CYTOCHROME SYSTEM A64-13513

DISINTEGRATION OF YEAST CELL BY HIGH INTENSITY ULTRASOUND A64-81174

RECOVERY OF REPRODUCTION CAPACITY OF X RAY
IRRADIATED YEAST CELLS
JPRS-21619 N64-10118

RESTORATION RATE CF CHRCMOSCME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION UCRL-11191 N64-17707

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955

YOUNGS MODULUS

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES AMRL-TDR-64-23 N64-22317 Z

ZERO GRAVITY FOCD PACKAGING AND HANDLING UNDER ZERO-G CONDITIONS OF SPACE A64-22654

CPERATION OF VESTIBULAR APPARATUS AND RELATED NERVE CENTERS UNDER CONDITIONS OF ZERO GRAVITY A64-24975

HEMATCLCGY AND BIOCHEMICAL STRESS EFFECTS OF CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABCLIC FLIGHT A64

PHYSICLOGICAL CHARACTERISTICS OF PIG-TAILED MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA BICSATELLITE PROGRAM A64-80261

MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS UNDER ZERO AND LUNAR GRAVITY CONDITIONS

LEUKCCYTE, CORTICOSTEROID, AND CATECHOLAMINE RESPONSE TO CORIOLIS ACCELERATION DURING ZERO-GRAVITY PARABOLIC FLIGHT A64

CARBON DICXIDE CHEMICAL REDUCTION UNIT FOR CONTINUOUS ZERO GRAVITY OPERATION NASA-CR-54060 N64-20679

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS AMRL-TER-64-47 N64-28562

EFFECT OF CCRIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS NASA-CR-58675 N64-28876

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER ZERO GRAVITY CONDITIONS

ZINC

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLCCD JPRS-25364

ZOCLOGY

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS

ZOCLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE, PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECCLOGY NASA-CE-59306

ZOCLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION N64-33514 NASA-CR-59305

ZECLOGY CONFERENCE - NORTH AMERICAN FAUNA, INSECT ENDOCRINOLOGY, MAMMALIAN EVOLUTION, MIMICRY, BLOOD PRCTOZCA, CHROMOSOME STRUCTURE, AND ECCLOGY NASA-CR-59304 N64-33515

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES NASA-CR-59303

PROTECTION OF VANISHING SPECIES - INTERNATIONAL CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN NASA-CR-59027 N64-33924

Corporate Source Index

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography FEBRUARY, 1965 Issues SP-7011 through SP-7011 (06)

Listing of Reports by Source

A Notation of Content, rather than the title of the document, appears under each corporate source. The accession number is located beneath and to the right of the Notation of Content. e.g., N64-12345. Under any one subject heading, the accession numbers are arranged in sequence

ADAPTRONICS, INC., ALEXANDRIA, VA. PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS N64-32865 AD-604369

ADVISORY GROUP FOR AERONAUTICAL RESEARCH AND DEVELOPMENT, PARIS /FRANCE/.
AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS AGARDOGRAPH-52

AEROMEDICAL HANDBOOK TO PROVIDE AIRCREWS WITH UNDERSTANDING OF BIOLOGICAL SCIENCES AFFECTING FLYING

AGARD-411. AMEND.

N64-19922

AEROJET-GENERAL CORP., AZUSA, CALIF.
MEDICAL CLINIC INVESTIGATION OF WATER
RECOVERED FROM HUMAN URINE AMRL-TDR-63-70

N64-11445

AEROJET-GENERAL CORP., SACRAMENTO, CALIF. HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE FOR TITAN II ENGINE LRP-317/TDR-63-218 N64-26025

AERONAUTICAL RESEARCH LABS., MELBOURNE /AUSTRALIA/.

AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS ARL/HE-15

AERONUTRONIC, NEWPORT BEACH, CALIF. BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY NASA-CR-52607 N64-11103

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS

NASA-CR-55744 DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND

NASA-CR-56520 N64-22780

DETECTION OF PROTEIN IN TRACE AMOUNTS BY J-BAND NASA-CR-56522

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION

NAS A-CR-54051

N64-25906

AEROSPACE CORP., EL SEGUNDO, CALIF.
CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE SSD-TDR-64-95

AEROSPACE INDUSTRIES ASSN. OF AMERICA, INC.,

HUMAN ENGINEERING - BIBLIOGRAPHY EETC-7, REV. A

N64-20559

RECOMMENDED SAFETY PRACTICES FOR MANNED SPACE SIMULATOR PRESSURE CHAMBERS ARTC-41 N64-27335

AEROSPACE MEDICAL DIV. AEROMEDICAL RESEARCH LAB. /6571ST/, HOLLOMAN AFB, N. MEX. DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH N64-21311 ARL-TDR-64-3

ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE N64-22094 NASA-RP-188

CHIMPANZEE MEDICAL RECORDS

ARL-TDR-64-5 N64-22280

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS AVOIDANCE TASK ARL-TDR-64-7 N64-22697

HISTORY OF BIODYNAMICS ARL-TDR-63-10 N64-25331

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES UNDER STABLE FLIGHT CONDITIONS ARL-TDR-64-4

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA N64-32026 ARL-TDR-64-9

AEROSPACE MEDICAL DIV. AEROSPACE MEDICAL RESEARCH LABS. /6570TH/, WRIGHT-PATTERSON AFB, OHIO.

FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING N64-11177

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE AMRI-TDR-63-81

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT AMRL-TDR-63-82 N64-12214

HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION

HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM N64-13460 FORWARD ACCELERATION

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES N64-13461

CARDIOVASCULAR RESPONSE IN MAN DURING FORWARD N64-13463 **ACCELERATION**

ATTEMUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS
IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-136 N64-13653

CORPORATE SOURCE INDEX

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION AMRL-TDR-63-102 N64-15093

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR

PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION AMRL-TDR-63-94 N64-16805

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS AMRL-TDR-63-111 N64-17508

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BINOCULAR DEPTH PERCEPTION AMRL-TDR-63-134 N64-17509

EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE AMRL-TDR-63-137 N64-17510

MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS

AMRL-TDR-63-110 N64-18599

BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION TECHNIQUES, AND PHYSICAL ANTHROPOLOGY AD-600804 N64-22515

PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING TARGETS USING AERIAL PHOTOGRAPHY AMRL-TDR-64-19

N64-22566

N64-31827

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE N64-24616

X-20 DYNA-SOAR FULL PRESSURE SUIT ASSEMBLY AMRL-TDR-64-27 N64-26905

FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH

AND WITHOUT GLOVES AMRL-TDR-64-41 N64-27444

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS TASK USING PREDICTOR DISPLAY AMRL-TDR-64-55

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS AMRL-TDR-64-47 N64-28562

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR

AMRL-TDR-64-45 N64-28604

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS

AMRL-TDR-64-48 N64-29938

BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE MEASUREMENT AMRL-MEMO-P-45 N64-30500

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63

PROTEIN-BOUND IDDINE IN SERUM OF RATS BREATHING 99 PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID N64-32223

AEROSPACE MEDICAL DIV. ARCTIC AEROMEDICAL LAB., FORT WAINWRIGHT, ALASKA. METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES

AAL-TDR-63-33 N64-13632

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT AAL-TDR-63-40 N64-13633 BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION AAL-TDR-63-34 N64-31936

AEROSPACE RESEARCH LABS., WRIGHT-PATTERSON AFB, OHIO. AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS AMRL-TDR-64-46

AIR FORCE CAMBRIDGE RESEARCH LABS., BEDFORD, MASS

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY AFCRL-63-364 N64-18581

AIR FORCE DEPT., WASHINGTON, D.C. AIR FORCE MEDICAL SUPPORT OF SPACE PROGRAM N64-30716

AIR FORCE INST. OF TECH., WRIGHT-PATTERSON AFB, OHIO. MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER ZERO GRAVITY CONDITIONS GA-63 N64-32154

AIR FORCE SPECIAL WEAPONS CENTER, KIRTLAND , N. MEX. ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA DOSIMETRY

AFSWC-TDR-62-107

AIR FORCE SYSTEMS COMMAND, ANDREWS AFB, MD.
MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION

AIR FORCE SYSTEMS COMMAND, BEDFORD, MASS. HUMAN ENGINEERING IN POWER GENERATOR AND VOICE COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47 ESD-TDR-63-656 N64-15752

SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND MESSAGE ITEMS ESD-TDR-64-254 N64-19 N64-19670

AIR FORCE SYSTEMS COMMAND, WRIGHT-PATTERSON AFB, OHIO. INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY IN INFORMATION PROCESSING TASKS AMRL-TDR-63-89

GROUP CODE THEORY AND APPLICATION OF HADAMARD MATRIX TO CODING PROBLEM - CYBERNETICS FTD-TT-63-544/18284 N64-12384

CYBERNETICS AND AUTOMATION - HIGHER NERVOUS ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES FTD-TT-63-765/1 N64-12621

PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING BACTERIA - LUMINESCENT SPECTRA FTD-TT-63-867/162 N64-12628

BIONICS - PROBLEMS, ACHIEVEMENTS, DUTLOOK FTD-TT-63-557/164 N64-12845

SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT FID-TT-62-1605/1 N64-12849

WALKING RESPONSES UNDER LUNAR AND LOW GRAVITY CONDITIONS AMRL-TDR-63-112

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE FTD-TT-63-732/164 N64-14333

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT N64-14334

USE OF PLASTIC MATERIALS IN MEDICINE

N64-14335

N64-21523

N64-13466

SPACE PSYCHOLOGY FTD-MT-63-68/1&3&4

N64-14375

PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN -

ALGAE

AIR CONDITIONING SYSTEMS FTD-TT-62-1545/1 EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS FTD-TT-62-1609/1

FTD-MT-63-49

BIOLOGICAL RHYTHMS & ASTRONAUTICS FTD-TT-64-26/1

RADIO ELECTRONICS IN BIOLOGY FTD-TT-63-830/18284

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING PHYSIOLOGICAL RESPONSES FTD-TT-63-1029/16264

MEASUREMENT OF RADIATION DOSES RECEIVED BY COSMONAUTS IN VOSTOK III AND VOSTOK IV

N64-15590

N64-16053 LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY N64-16353

RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/162

WEIGHTLESSNESS EXPERIMENTS WITH VARIOUS ANIMALS FTD-TT-63-618/1 N64-16379

HUMAN AND ANIMAL TOLERANCE OF HEAT FTD-TT-63-650/164 N64-16383

ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS FTD-TT-62-1449/16264 N64-16396

FLIGHTS OF VOSTOK III AND VOSTOK IV

N64-16398

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399

PREVENTION AND TREATMENT OF MOTION SICKNESS FTD-TT-63-287/164 N64-16418

IMMUNDLOGICAL & PROTECTIVE FUNCTIONS OF ORGANISMS FTD-TT-62-1097/162 N64-17167

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN IMMUNOLOGICAL AND INFECTION PROCESSES

N64-17168

DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING

N64-17169

INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE FUNCTIONS OF ORGANISMS N64-17170 N64-17170

INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS N64-17172

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE UNDER CONDITIONS OF ACCELERATION STRESS FTD-MT-63-20/1 N64-18665

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON N64-18672

INFORMATION PROCESSING BY BIOLOGICAL SYSTEMS AND MACHINES - BIONICS ASD-TDR-63-946 N64-18826

WEIGHTLESSNESS IN SPACE - MANEUVERABILITY, ELASTIC COMPRESSION OF OBJECTS, AND BEHAVIOR OF LIQUIDS FTD-TT-63-300/164 N64-19213

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/16264 N64-19220

N64-19768

N64-21388

SPACECRAFT FLIGHTS

N64-21642

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

N64-21643

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND MHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT

ACUTE RADIATION SICKNESS IN MAN FTD-TT-63-558/182

N64-21645

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONOLITH OF MINERAL ICE FTD-TT-63-926/162 N64-21662

PRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL FTD-TT-62-1424/16364 N64-21920

EXTRASENSORY PERCEPTION - HUMAN COMMUNICATION WITH ANIMALS FTD-TT-62-1876/1 N64-21928

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTD-TT-63-1015/16264 N64-21938

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS FTD-TT-63-1095/162 N64-N64-21941

HUMAN FACTORS & CONTROL SYSTEM FTD-TT-63-331/1&2

N64-21945

SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION FTD-TT-64-134/16264

BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES FTD-TT-63-664/1 N64-22049

NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS -SOIL ENRICHMENT FTD-TT-63-1010/1 N64-22141

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA FTD-TT-63-1096/162 N64-27 N64-22142

MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL PROCESSES FID-TT-62-1746/16264 N64-22143

ELECTRONICS AND INDUSTRIAL SAFETY FTD-TT-63-1200/1&4 N64-22160

PHYSIOLOGICAL RESPONSES OF RABBITS FTD-TT-62-1642 N64-22168

PHYSIOLOGICAL MECHANISMS OF CHEMICAL THERMOREGULATION N64-22169

FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS MIXTURE AT REST AND DURING EXERCISE

N64-22170

VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING -TEMPERATURE REGULATION FTD-TT-63-774/162 N64-22180

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA FTD-TT-63-521/164 N64-22182

EFFECT OF IONIZING RADIATION ON RETINA AND OTHER PHOTOSENSITIVE SYSTEMS FTD-TT-63-163/16264 N64-22343

BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM PRODUCTION FTD-TT-63-578/1&2 N64-22352

EDIBLE PROTEIN-VITAMIN COMPLEX FOR PROTECTION FROM RADIATION SICKNESS, AND GAMMA RADIATION EFFECT ON VITAMIN CONTENT OF RAT LIVER AND BRAIN FTD-TT-63-1064/16264 N64-22363 HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION FTD-TT-64-32/1&2 N64-22365

EFFECTS OF IONIZING RADIATION ON METABOLIC PROCESSES FTD-TT-62-1575/1&2 N64-

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY FTD-TT-63-231 N64-22646

THERAPY OF PATIENTS WITH RADIATION INJURIES MEDICINE
FTD-TT-63-610/1&2
N64-22652

EFFECT OF TRANSVERSE ACCELERATION ON DXYGEN
TENSION IN BRAIN TISSUE
FTD-TT-63-1215/1&2&4 N64-22665

COSMONAUT TRAINING

N64-23098

N64-23432

SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC DEVICE OF GIVEN DEPENDABILITY FID-TT-63-37/182 N64-23295

CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF BLUE-GREEN ALGAE FTD-TT-63-193/1 N64-23296

AMINO ACIDS IN HUMAN DIET - NUTRITION STUDY FTD-TT-64-148/164 N64-23308

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM FTD-TT-63-719/182 N64-23309

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN
CONTENT, AND PHYSICAL EXERTION ON VISUAL
PERCEPTION
FID-TT-63-980/182
N64-23312

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/1&2&4 N64-23335

METHODS OF PHYSIOLOGICAL TESTING IN HUMANS FTD-TT-63-916/1 N64-23428

MICROBIOLOGY - ANNOTATED BIBLIOGRAPHY FTD-TT-63-1009/162

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434

PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION DOSAGES FTD-TT-63-1050/18284 N64-23437

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING

EXPERIMENTAL BIOLOGY, IMMUNOLOGY, WEIGHTLESSNESS, AND ACCELERATION STRESS FTD-TT-62-1164/16284 N64-23454

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION N64-23455

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456

FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR REFRACTION N64-23462

PATHOLOGY AND PHYSIOLOGY OF ADAPTIVE CONTROL AND PROTECTION MECHANISMS IN ANIMALS
FTD-TT-62-1548/16264 N64-23463

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT

AND EFFECT OF WEIGHTLESSNESS ON HUMANS

NITROGEN-FIXATION, CHLOROPHYLL, AND TEMPERATURE CONTROL STUDIES IN ALGAE AND MICROORGANISMS FTD-TT-63-1016/182 N64-23655

OPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE - BOTANY N64-23656

OPTIMIZATION OF ILLUMINATION AND TEMPERATURE EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA SALINA CELLS N64-23657

AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR MICROORGANISM CULTURES N64-23658

NUCLEIC ACIDS AND CHLOROPHYLL BIOSYNTHESIS AND ELECTROMYOGRAMS UNDER ACCELERATION STRESSES FTD-TT-63-1052/162 N64-23659

ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL N64-23660

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS N64-2366

BIOLOGY AND MEDICINE FTD-TT-63-1013/182

N64-23694

N64-23465

N64-23638

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE SENSITIVITY N64-23695

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION

N64-23697

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698

RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION N64-23867

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE

ETD-T1-64-140/184 N64-24012

FTD-TT-64-140/164 N64-24

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS FTD-TT-63-931/1&2 N64-24064

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF

PHYSIOLOGICAL PROCESSES FTD-TT-63-1191 N64-24324

HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS N64-25078

RELATIVE BIOLOGICAL EFFECTIVENESS OF NEUTRONS AND PROTONS
FTD-TT-63-1046/1&4 N64-25455

PHONOCARDIOGRAPH FOR RECORDING HEART SOUND FTD-TT-63-1193/18284 N64-25458

TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND MELAMINE-FORMALDEHYDE RESINS FTD-TT-64-97/1&4 N64-25462

BIOELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES FTD-TT-63-1194/16284 N64-25655

PATTERN ANALYSIS OF CONDITIONED RESPONSE AND

THOUGHT PROCESSES OF HUMAN BRAIN FTD-TT-64-184/164

N64-25951

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES FTD-TT-64-271/1626364 N64-26092

EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA FTD-TT-64-246/16264

SYSTEM FOR VISUAL DISPLAY AND PHOTOGRAPHIC RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL ELECTROENCEPHALOGRAPH FTD-TT-63-1190/15264

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO FTD-TT-63-933/162

IONIZING RADIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND TISSUES

FTD-TT-63-661/182 N64-26725

RELATION BETWEEN CHENICAL STRUCTURE OF SUBSTANCE AND BIOLOGICAL EFFECT FTD-TT-64-581/164

SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY

AMRL-TDR-64-40 N64-26874 CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD FLOW USING THERMISTOR FTD-TT-63-1175/1&2&4 N64-27

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS FTD-TT-64-258/16264

N64-27844 IONIZING RADIATION EFFECT ON NERVOUS SYSTEM FTD-TT-63-582/162 N64-28448

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS

EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS AMRL-TDR-64-36 N64-28565

MICROORGANISMS IN PERMAFROST FTD-TT-63-929/162

N64-29018

N64-27840

RADIOLOGY & PROTECTION OF COMMUNITY FROM RADIATION FTD-TT-64-163/16364 N64-29073

CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS
AGAINST IONIZING RADIATION N64-2 N64-29074

ORGANIZATION OF RADIATION PROTECTION MEASURES BY COMMUNITY

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091

IMPREGNATION, REPRODUCTION, AND DEVELOPMENT OF DROSOPHILA UNDER CONDITIONS OF WEIGHTLESSNESS N64-29092

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK III AND IV SPACE FLIGHTS

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS FTD-TT-63-761/1&2 N64-29277

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/162 N64-N64-29278

EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE. PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT FTD-TT-63-420 1&2

INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS

FTD-TT-64-282/162

N64-30156

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS FTD-TT-64-242/1 N64-30703

PROBLEMS IN AEROSPACE MEDICINE - WEIGHTLESSNESS. ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE FTD-TT-64-203/1

PHYSIOLOGICAL STUDIES - BIOLOGICAL CYBERNETICS. FLOATING RECORDING DEVICE FOR DIGESTIVE SYSTEM,
AND NYSTAGMUS RECORDING INSTRUMENTATION
FTD-TT-64-386/162
N64-31 N64-31074

PRESSURE TRANSDUCER FOR RECORDING OSCILLOGRAPH AND PLETHYSMOGRAPHY OF VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE FTD-TT-63-849/162 N64-31103

PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE TO COLD STIMULUS IN NOSE CAVITY N64-31104

PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSC ILLOGRAPH N64-31105

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION FTD-TT-64-260/1 N64-31474

HUMAN PERFORMANCE DURING SINUSCIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

HELIUM REPLACEMENT FOR NITROGEN IN SPACECRAFT CABIN AND HELIUM-OXYGEN VENTILATION FOR PRESSURE

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING AMRL-TDR-64-66

LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF CARBON DIOXIDE REMOVAL AGENTS FDL-TDR-64-67, PT. I

MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC REGION FID-TT-64-291/1

RADIATION EFFECTS - RELATION OF ARTERIAL PRESSURE AND REGULATING MECHANISMS AND LIPOLYTIC ENZYME INDUCTION BY CONNECTIVE TISSUE CELLS FID-TT-64-329/18284 N64-32 N64-32544

INORGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE SUPPORT IN SPACECRAFT AMRL-TDR-64-30 N64-32626

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY FTD-TT-63-923/162 N64-32662

DELIVERY APPARATUS OF PURE OXYGEN TO CLOSED SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC EXPERIMENTS WITH SMALL ANIMALS FTD-TT-63-1118/18284

CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/18284 N64-33102

ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH AMRL-TDR-64-56

RUSSIAN COSMONAUT REENTERS SPACE FLIGHT TRAINING -WORKING DAY DESCRIPTION - PARACHUTE JUMPS FTD-TT-64-149/164 N64-33669

TOXICOLOGY OF RADIOACTIVE IRON FTD-TT-64-599/1

N64-33943

N64-32663

MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN FTD-TT-63-1119/16264 N64-33970 ALLIED RESEARCH ASSOCIATES, INC., CONCORD,

BIBLIOGRAPHY OF BIOSENSORS NASA-CR-56347

N64-24116

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION NASA-CR-76 N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NASA-CR-58560 N64-29546

ALTO SCIENTIFIC CO., INC., PALO ALTO, CALIF.
MACHINE DISCRIMINATION OF SPEECH AND CARDIAC
SOUNDS TO MEASURE PILOT STRESS BY CHANGES IN VOICE
AND HEART FUNCTION SOUND
NASA-CR-53501
N64-20597

AMERICAN ASTRONAUTICAL SOCIETY, NEW YORK, N.Y.
FINDINGS IN NEUROPHYSIOLOGY, PSYCHOLOGY AND
INSTRUMENTATION THAT SUGGEST INNOVATIONS IN
MONITORING OF ASTRONAUT BRAIN
AAS PAPER 62-11
A64-11453

AMERICAN INST. FOR RESEARCH, PITTSBURGH, PA.
HUMAN FACTORS INFORMATION REQUIREMENTS FOR SPACE
SYSTEM DEVELOPMENT
NASA-CR-59050 N64-33208

AMERICAN INST. OF AERONAUTICS AND
ASTRONAUTICS, NEW YORK, N.Y.
ENVIRONMENTAL CONTROL, REPLENISHMENT AND STABILITY
OF SPACE LIFE SUPPORT SYSTEM WITH PRIMARY
CONSIDERATION GIVEN TO DXYGEN-CARBON DIDXIDE AND
THE WATER CYCLE
AIAA PAPER 63-65
A64-14332

ENUMERATION OF INTERACTIONS THAT MIGHT BE EXPECTED FROM CONSTITUENTS IN A SEALED ENVIRONMENTAL SYSTEM AIAA PAPER 63-258 A64-14341

SPACE MEDICINE EXPERIENCE IN MANNED SPACE FLIGHT
APPLIED TO APOLLO
AAS PAPER 64-12
A64-17959

SYNTHESIS OF CARBOHYDRATES FROM THE CARBON DIOXIDE AND WATER PRESENT IN A CLOSED CIRCUIT RESPIRATORY SYSTEM TRAVELING THROUGH SPACE AIAA PAPER 63-143

GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A SPACE-STATION LABORATORY AIAA PAPER 63-140 A64-18471

VISUAL PROBLEMS IN SPACECRAFT DOCKING INCLUDING ASTRONAUTS CAPABILITIES AND LIGHT EFFECTS ON TARGET

AIAA PAPER 64-221 A64-20103

PILOT PERFORMANCE IN COPING WITH CRITICAL SYSTEM
FAILURES DURING MERCURY ORBITAL FLIGHTS
AIAA PAPER 64-222
A64-20127

PHYSICAL EFFECTS OF WOBBLE, STATIC AND DYNAMIC UNBALANCE, DOCKING AND CREW MOVEMENTS ON ROTATING SPACE STATION A1AA PAPER 64-335

AMERICAN AND SOVIET APPROACH TO MANNED SPACECRAFT COMPARED, NOTING LIFE SUPPORT PROBLEMS AND PROTECTION AGAINST SPACE ENVIRONMENT AIAA PAPER 64-515 A64-20469

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY
THROUGH PULSE WAVE VELOCITY MEASUREMENT
AIAA PAPER 64-216 A64-20483

INTEGRATED SPACE SUIT, SUIT LOOP AND BACKPACK SYSTEM FOR NORMAL AND EMERGENCY SPACECRAFT OPERATION AIAA PAPER 64-214

A64-20487

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MAN-MACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT AIAA PAPER 64-421 A64-20783 MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393 A64-21862

AMERICAN INST. OF BIOLOGICAL SCIENCES,
MASHINGTON, D.C.
BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS,
MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND
PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290 N64-17601

AMERICAN INST. OF CHEMICAL ENGINEERS,
NEW YORK, N.Y.
WATER RECYCLING SUBSYSTEM FOR SPACE STATION, USING
ACTIVATED CARBON, ION EXCHANGE RESIN AND FINE PORE
FILTER
AICE PAPER 8C
A64-17321

ANTIOCH COLL., YELLOW SPRINGS, OHIO.

EFFECTS OF CURVILINEAR AND DISCRETE
TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN
TRACKING PERFORMANCE
AMRL-TOR-63-137
N64-17510

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA FOR SIZING OF PROTECTIVE CLOTHING AMRL-TDR-64-66 N64-31842

APPLIED DYNAMICS, INC., ANN ARBOR, MICHAPPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL SYSTEMS N64-16691

APPLIED PHYSICS LAB., JOHNS HOPKINS U.,
SILVER SPRING, MD.
ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING
TASKS UNDER STRESS
AD-428112
N64-14168

APPLIED PSYCHOLOGY CORP., ARLINGTON, VA.
DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL
ASPECTS OF PHOTO INTERPRETATION - EXPOSURE
TIME & WORK-REST CYCLES N64-10534

APPLIED SCIENCE ASSOCIATES, INC., VALENCIA, PA.

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF TRAINING PROGRAM NAVTRADEVCEN-1218-1 N64-29247

ARCTIC HEALTH RESEARCH CENTER, ANCHORAGE, ALASKA. DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF

ECHINOCOCCUS
AAL-TDR-63-37 N64-32102

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUDGE PROCESS AAL-TDR-63-36 N64-32115

ARGENTINA. COMISION NACIONAL DE ENERGIA

ATOMICA, BUENOS AIRES.

RADIOACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO BODY ORGANS

N64-11736

QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI N64-13474

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION
OF PLACENTA IN GASTROINTESTINAL TRACT
N64-24007

SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS
FOR RADIOACTIVE IODINE N64-30036

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL N64-32016

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN CARBON DIOXIDE BY CHLORELLA N64-33495

ARGONNE CANCER RESEARCH HOSPITAL,
CHICAGO, ILL.
PATHOLOGICAL STUDIES ON STEROID SEX HORMONES,
RADIATION EFFECT ON METABOLISM, LEUKEMIA,
PARATHYROID, AND HYPOTHYROIDISM
ARCH-20
N64-15398

*ARGONNE NATIONAL LAB., ILL.
INFLUENCE OF RADIATION EXPOSURES ON PLANT **EMPLOYEES** ANL-6688

BIOLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN ORDER OF MAGNITUDE OF MICRO-G NASA-CR-51180 N64-22776

DOSIMETRY FOR RADIATION DAMAGE STUDIES

N64-25205

INORGANICALLY BOUND IDDINE-131 SEPARATED FROM URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER CHLORIDE COLUMN N64-30602

ARIZONA U., TUCSON.
ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS ASD-TDR-63-136

ARMED FORCES INST. OF PATHOLOGY. WASHINGTON.

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS AMRL-TDR-63-69

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS

ARMY BIOLOGICAL LABS., FORT DETRICK, MD.
COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE AD-428703 N64-19877

SAFETY MANUAL FOR PERSONNEL HANDLING RADIDACTIVE MATERIALS AD-438147 N64-27263

ARMY CHEMICAL CENTER, EDGEWOOD, MD. TOXICOLOGY - ACTION OF DRUGS ON ANIMALS

N64-24612

N64-12132

PARTICLE SIZE CONSIDERATIONS OF AIRBORNE

N64-24628

ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N.H.

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC LIMIT OF COHESIVE SOILS RR-117 N64-27604

ARMY MEDICAL RESEARCH AND NUTRITION LAB., DENVER. COLO.

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT N64-23896

ARMY MEDICAL RESEARCH LAB., FORT KNOX, KY.
PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL REPT -- 597 N64-16089

ARMY MISSILE COMMAND, HUNTSVILLE, ALA. PILOTING ERRORS AND AIRCRAFT INSTRUMENTS

N64-12238 TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN

HEALTH PHYSICS RSIC-87

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH PRURITIC DERMATOSIS RSIC-105 N64-13812

ARMY NATICK LABS., MASS. HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT AMRL-TDR-64-38 N64-29939

ARMY PERSONNEL RESEARCH OFFICE, WASHINGTON, D.C.

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES N64-10531

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE USAPRO-TRN-135 N64-21741 CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION ASSIMILATION FROM VISUAL DISPLAYS USAPRD-TRN-145 N64-29947

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION AD-601973 N64-30646

ARMY RESEARCH OFFICE, WASHINGTON, D.C.
ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR
ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND
EXTREME PHYSICAL EXERCISE AD-429526 N64-25323

ARO, INC., ARNOLD AIR FORCE STATION, TENN. AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS DYNAMIC TUNNEL FACILITY AD-435787 N64-18632

ATLANTIC RESEARCH CORP., ALEXANDRIA, VA.
TOXICITY HAZARDS IN SOLID PROPELLANT OPERATION
ARS PAPER-2766-63 N64-2 N64-22240

ATOMIC ENERGY COMMISSION, IDAHO FALLS, IDAHO. STANDARD HEALTH AND SAFETY REQUIREMENTS FOR USE BY NUCLEAR REACTOR TEST SITE PERSONNEL IDO-12028 N64-10428

ATOMIC ENERGY COMMISSION, NEW YORK, N.Y.
PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS AFC-TR-5630

FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY

FALLOUT - RADIONUCLIDE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE HASL-135

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY N64-13329

RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH AND SAFETY LABORATORY MANUAL NY0-4700, REV. N64-15997

ATOMIC ENERGY COMMISSION, WASHINGTON, D.C. EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS N64-10935

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936

ABSTRACTS OF ATOMIC ENERGY COMMISSION-SPONSORED BIOLOGICAL AND MEDICAL RESEARCH TID-4201 N64-12811

MARINE SCIENCES RELATED TO AEROSPACE USES OF NUCLEAR POWER N64-14568

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY TID-3098, BK. 1 N64-19035

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS TID-3098. BK. 2 N64-19036

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES TID-3098/INDEX/ N64-19236

RULES FOR TRANSPORTATION AND SHIPMENT OF RADIOACTIVE MATERIALS

MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING RADIDACTIVE ISOTOPES AND NUCLEAR RADIATIONS AEC-TR-6298 N64-20823

N64-20477

BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS TID-3909 /SUPPL - 2/ N64-33138 RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY AEC-TR-6258 N64-33582

ATOMIC ENERGY OF CANADA LTD., CHALK RIVER, ONTARIO.

LATENT IMAGE FADING IN RADIATION MONITORING FILMS DURING STORAGE BEFORE DEVELOPMENT AECL-1872 N64-1473

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY AECL-2050 N64-32308

AUTONETICS, ANAHEIM, CALIF.

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND
HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING
LOW ALTITUDE HIGH SPEED FLIGHT N64-31511

AVCO CORP., TULSA, OKLA.

CORRELATION OF LINEAR ENERGY TRANSFER WITH
RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE
RADIATIONS
NASA-CR-58289

N64-29573

В

BATTELLE MEMORIAL INST., COLUMBUS, OHIO-BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY REIC MEMO-25 N64-24967

BAYLOR U., HOUSTON, TEX.
ELECTROPHYSIOLOGIC CHARACTERISTICS AND
INTERPRETATION OF SKIN POTENTIALS
SAM-TDR-63-95 N64-15570

GALVANIC SKIN RESPONSE STUDY USING AUTOMATIC
ANALYZER
SAM-TDR-63-74
N64-16641

ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS NASA-CR-56205 N64-25767

EFFECT OF ADJACENT COOLING ON GALVANIC SKIN RESPONSE AND SKIN RESISTANCE OF ISOTHERMAL AREA SAM-TDR-63-70 N64-32602

BOEING CO., SEATTLE, WASH.
FACTORS AFFECTING PHOTOGRAPHIC CHANGE
DISCRIMINATION

N64-10533

BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS SAM-TDR-63-57 N64-13852

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS AMRL-TDR-63-131 N64-18773

MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE SAM-TDR-64-25 N64-27494

ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS RADC-TDR-64-144 N64-33536

BOEING CO., WICHITA, KAN.
WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
D3-3512-4
N64-15855

BOLT, BERANEK, AND NEWMAN, INC., CAMBRIDGE, MASS.

MANUAL CONTROL SYSTEMS AND HUMAN OPERATOR
PERFORMANCE
NASA-CR-55514
N64-16111

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL NASA-TN-D-2255 N64-1873

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR SENSORY DISCRIMINATION - AUDITORY SYSTEM

N64-18830

INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED STRESS
REPT.-1129
N64-22557

NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR MUSCLES REPT.-1128 N64-2512

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION NAVTRADEVCEN-789-2 N64-26892

HUMAN REACTION TO SONIC BOOM

N64-30466

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRADEVCEN-789-3

MANUAL CONTROL SYSTEMS STUDIES - MATHEMATICAL MODELS DEVELOPMENT, ADAPTIVE CHARACTERISTICS, AND MULTIAXIS VARIABLES NASA-CR-59258 N64-33341

BOYCE THOMPSON INST. FOR PLANT RESEARCH, INC.,
YONKERS, N.Y.
NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND
ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE
CULTURES
AMRL-TDR-63-124
N64-1786

BRANDEIS U., WALTHAM, MASS.
GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR
TAXONOMY OF BACTERIA
N64-18056

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278

ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS N64-25491

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SPB N64-25880

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION

N64-28111

ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES PUBLs-281 N64-28295

PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048

BROOKHAVEN NATIONAL LAB., UPTON, N.Y.
MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY
OF BROOKHAVEN NATIONAL LABORATORY
BNL-807/T-310/
N64-14395

COBALT-60 BULK GRAIN IRRADIATION FACILITY
BNL-810/T-312/ N64-19091

BIOLOGY OF AGING USING IONIZING RADIATION STUDIES BNL-854/T-340/ N64-21591

TRACE METAL - ESSENTIAL OR DETRIMENTAL TO LIFE BNL-828-/T-323/ N64-21733

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH NASA-RP-196 N64-22071

PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC BEHAVIOR OF TRACERS BNL-857/T-341/ N64-30623

BRYN MAWR COLL., PA.

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD

CLEARANCE OF CARBON & BACTERIA IN MICE

AAL-TOR-63-1

N64-13629

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE

AAL-TDR-63-13

N64-13662

BUFFALO U., N.Y.
ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETHEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXTA

BURDEN NEUROLOGICAL INST., BRISTOL /GT. BRIT./ HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE SYMMETRIC LESIONS

BUREAU OF MINES, COLLEGE PARK, MD.
CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH AUTOTROPIC BACTERIA - MINERALOGY BM-RI-6423

CK-INSTITUT FUR HIRNPATHOLOGIE. ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592

LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPDXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601

CALIFORNIA COLL. OF MEDICINE, LOS ANGELES.
DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION AD-447092 N64-33690

CALIFORNIA INST. OF TECH., PASADENA.
GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-22755

CALIFORNIA U.. BERKELEY. EVIDENCE FOR EXISTENCE OF LIFE ON MARS

N64-14741

SEDIMENTATION RATES OF NUCLEATED AND NONNUCLEATED CELLS OF NORMAL RAT BONE MARROW N64-15210

CONVECTION IN LOW INTENSITY GRAVITATIONAL FIELDS. AND SIMULATION WITH SIMILAR DENSITY LIQUIDS N64-15212

LIMIT OF GENETIC CONTROL OF BRAIN STRUCTURE N64-18834

BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM REPT -- 63-27 N64-21680

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE NASA-CR-50208 N64-22764

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON NASA-CR-56529 N64-22790

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS NASA-CR-56348 N64-25768

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

N64-27513

INVESTIGATION OF FUNDAMENTAL NATURE OF BIOCHEMICAL SYSTEMS IN TERRESTRIAL ORGANISMS NASA-CR-58547 N64-28894

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION SERL-64-5 N64-29906

CALIFORNIA U., BERKELEY. LAWRENCE RADIATION PAPERS ON EXPERIMENTS IN BIOCHEMISTRY, BIOLOGY, AND ORGANIC CHEMISTRY

UCRL-10934

N64-10154

IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT UCRL-11005 N64-11097

SULFATE REDUCTION BY BACTERIA

UCRL-10966

N64-11987

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF CHROMOSOME DIVISION DELAY AND RATE OF DESOXYRIBONUCLEIC ACID SYNTHESIS UCRL-10979 N64-14428

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY

N64-15202

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE N64-15203

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM N64-15204

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN INSECT WING DEVELOPMENT N64-15207

MATHEMATICAL ANALYSIS OF RADIATION INJURY INCIDENCE IN CELL CULTURE N64-15208

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY

PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN **POPULATION**

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS

POSITRON SCINTILLATION CAMERA FOR DETECTING REAL AND SIMULATED BRAIN TUMORS N64-15215

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64-15216

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217

X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM UCRL-10873 N64-15242

TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPER-SUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING & COMPLEMENTATION UCRL-11191 N64-17707

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS N64-19465

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHLORELLA N64-19470

QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA N64-19471

MEDICAL AND BIOLOGICAL RESEARCH

N64-22851

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN

N64-29725

BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA

PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD
CELLS
UCRL-10898
N64-22855

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE MARROW N64-22857

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA RADIATION EMITTED BY ISOTOPES N64-22858

INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION N64-22860

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS N64-22861

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION
OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS
N64-22862

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF UNSATURATION N64-22863

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS

N64-22866

VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS N64-22868

METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS

N64-22869

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS OF RATS UCRL-11179 N64-25204

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION UCRL-11387 N64-27799

IRRADIATION-PRODUCED RADICALS, ELECTRON MICROSCOPY OF SINGLE-STRAND DEOXYRIBONUCLEIC ACID, AND IRRADIATION-INDUCED DEFECTS IN DEOXYRIBONUCLEIC ACID UCRL-11387, SUPPL. N64-30782

RING STRUCTURE OF SINGLE STRAND DEDXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY

INACTIVATION AND RECOVERY OF MICROORGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD N64-30786

CALIFORNIA U., DAVIS.

X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR
AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107

N64-1211

PRESERVATION OF FRUITS AND VEGETABLES BY IONIZING RADIATION TID-19206 N64-12968

X-RAY IRRADIATION EFFECTS ON WORK CAPACITY AND LIFESPAN OF DOGS

UCD-472-109

N64-25111

EFFECT OF STRONTIUM 90 AND RADIUM 226 DN BEAGLE UCD-472-110 N64-26043

CALIFORNIA U., LIVERMORE. LAWRENCE RADIATION

HAZARDS CONTROL - VARIOUS METHODS OF PROTECTION FROM RADIATION, LASERS, & MERCURY VAPOR UCRL-7571 N64-1488

PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE
IN MILK AND HUMAN THYROID
UCRL-7716 N64-19097

CALIFORNIA U., LOS ANGELES.
HIGH-SPEED HIGH-INTENSITY MOLECULAR BEAM
NASA-CR-52865 N64-11260

INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA UCLA-518 N64-1289

SECOND ANNUAL REPORT OF BRAIN RESEARCH INSTITUTE INCLUDING BIBLIOGRAPHY OF PUBLICATIONS

N64-12967

SMALL & LARGE SIZE RADIOALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS UCLA-519 N64-13004

RADIOBIOLOGY, BIOCHEMISTRY, PHARMACOLOGY, TOXICOLOGY, & RADIATION HAZARDS
UCLA-520 N64-15341

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS NSA-CR-55689 N64-16324

ANALYSIS OF DATA FROM BIOCHEMICAL AND
PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM
N64-19152

PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS AD-428192 N64-19909

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES
OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521
N64-20672

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA UCLA-12-523 N64-21215

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

VARIOUS STUDIES OF BRAIN REACTIONS IN MONKEYS
NASA-CR-58038 N64-27284

STUDIES IN BIOCHEMISTRY, NUCLEAR MEDICINE, RADIOBIOLOGY, BIOPHYSICS, AND ENVIRONMENTAL RADIATION UCLA-12-529 N64-27343

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP NASA-CR-56908 N64-27395

ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR AFOSR-64-1195 N64-30465

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NASA-CR-59001
N64-33041

UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL AND HUMAN PERFORMANCE IN TRACKING REPT.-64-30 N64-33689

CALIFORNIA U., SAN FRANCISCO.
RADIATION THERAPY, SYNCHROTRON OPERATION,

RADIOBIOLOGY, & RADIATION GENETICS STUDIES N64-13133

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES -INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-24610

CALIFORNIA U., SANTA BARBARA. HUMAN REACTIONS TO COLD ENVIRONMENT AD-444482

N64-33366

CANTONAL HOSPITAL, GENEVA U. /SWITZERLAND/. X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED SUBSTANCES REPT.-1 N64-32583

CASE INST. OF TECH., CLEVELAND, OHIO.
MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC
SYSTEMS - HEURISTIC THEOREM PROVING

N64-18838

CEDARS OF LEBANON HOSPITAL, LOS ANGELES, CALIF.

TESTING HEART FUNCTION BY ANALYSIS OF ITS PRECORDIAL VIBRATION SPECTRUM NASA-CR-53818

N64-19313

MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM - TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412

CENTRE D ENSEIGNEMENT ET DE RECHERCHES DE MEDECINE AERONAUTIQUE, PARIS /FRANCE/.
REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465

CHANCE VOUGHT CORP., DALLAS, TEX.
HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO FLOW FIELD AT NOSE REPT -- 2-59740/3R-479 N64-15343

CHICAGO MEDICAL SCHOOL, ILL.
EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION
ON TISSUES OF DOG EYE AMRL-TDR-63-120 N64-14696

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES AMRL-TDR-64-23

EFFECT OF ANESTHESIA, HIGH OXYGEN AND FEEDING ON RESONANT FREQUENCIES OF VISCERAL ORGANS AMRL-TDR-64-14 N64-22328

OXYGEN INHALATION EFFECTS ON COLD RESPONSE THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE BALANCE OF BLOOD AD-600077 N64-26550

WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN AMRL-TDR-64-53

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION AMRL-TDR-64-54 N64-31 943

CHICAGO U., ILL. EFFECTS OF X- AND GAMMA-IRRADIATION ON EXPERIMENTAL ANIMAL SUBJECTS N64-10935

BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN OPR-49

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-13502

IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES

N64-13504

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF RADIATION EXPOSURE IN MICE N64-13505

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF N64-13507

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509

RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS SYSTEM

SAM-TDR-63-66

N64-13869

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN AD-430550 N64-16645

MATHEMATICAL MODELS OF NEURAL ACTIVITY

N64-18835

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES, THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY NASA-CR-56227 N64-24110

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS SAM-TDR-64-29

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN OPR-52

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY

ELECTRON MICROSCOPE FACILITIES AND RESEARCH PROGRAM IN MOLECULAR BIOLOGY NASA-CR-59151 N64-33277

ELECTRON MICROSCOPY AND ELECTRON OPTICAL TECHNIQUES IN EXOBIOLOGY NASA-CR-59251 N64-33286

CINCINNATI U., OHIO.
EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS AMRI - TDR-63-122

HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY AMRL-MEMO-P-54 N64-26852

METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION DASA-1422 N64-29941

EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM AD-439648 N64-30499

CLYMER /A. BEN/, COLUMBUS, OHIO.

APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL SYSTEMS N64-16691

COLLEGE DE FRANCE, PARIS.
GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON
ACTIVITY - RETINA N64-18832

COLOGNE U. /W. GERMANY/.
CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION
N64-14581

COLUMBIA U., NEW YORK, N.Y.
RADIOPHYSICS RESEARCH - RADIATION EFFECT ON
TISSUE CULTURE CELLS
NYO-10451
N64-12123

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302 N64-17766

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652
N64-20598

SAFETY, HAZARDS & ACCIDENTS NASA-CR-56623

N64-24119

COMMUNICATION RESEARCH INST., MIAMI, FLA.
COMMUNICATION BETWEEN MAN AND OTHER SPECIES DOLPHIN STUDIES
NASA-CR-56530 N64-22791

BIOLOGICAL COMMUNICATIONS RESEARCH - COMMUNICATION BETHEEN DOLPHINS NASA-CR-53228 N64-23391

CORNELL AERONAUTICAL LAB., INC., BUFFALO, N.Y.
IMAGE QUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY
N64-10530

INFORMATION REQUIREMENTS AND PERFORMANCE
CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING
AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT
CAL-IH-1715-E-5 N64-16485

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BRIGHTNESS
DISCRIMINATION - VISUAL PERCEPTION
CAL-VH-8137-E N64-18937

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122

VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL READING CAL-VH-1838-E-1 N64-32208

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING
SYSTEMS
CAL-131
N64-32606

CORNELL U., ITHACA, N.Y.

PLANT STUDY - EFFECT OF TEMPERATURE, MOISTURE AND
LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION
EXCHANGE RESINS AS MEDIA
RADC-TOR-63-183

N64-21353

CORNELL U., NEW YORK, N.Y.
INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS
CASUALTY SITUATIONS
N64-30754

COUNCIL FOR INTERNATIONAL ORGANIZATIONS OF MEDICAL SCIENCES, /CIOMS/ PARIS /FRANCE/.
SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA N64-14580

CUTLER-HAMMER, INC., DEER PARK, N.Y.
THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS
UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS
ESD-TDR-63-136 N64-13656

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT AMRL-TOR-64-10 N64-32480

CZECHOSLOVAK ACADEMY OF SCIENCES, PRAGUE. ELECTRIC PROPERTIES OF TISSUES

N64-17539

D

DAYTON U., OHIO.

EFFECTS OF CURVILINEAR AND DISCRETE
TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN
TRACKING PERFORMANCE
AMRL—TDR—63—137

N64-17510

DEFENCE RESEARCH BOARD, OTTAWA /CANADA/.
EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION
T-84-J N64-33496

DEFENCE RESEARCH MEDICAL LABS.,
TORONTO /CANADA/.
PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION
IN RELATION TO MOTION SICKNESS, SPATIAL
DISORIENTATION, & BLACKOUT
N64-13454

DEFENCE STANDARDS LABS., MARIBYRNONG
/AUSTRALIA/.
FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS
REPT.-252
N64-18148

DETROIT U., MICH.
SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE
YIELD OF PORPHINE-LIKE SUBSTANCES
N64-29663

DEUTSCHE VERSUCHSANSTALT FUR LUFT- UND
RAUMFAHRT, BAD GODESBERG /W. GERMANY/.
ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS,
AND EFFECTS OF SPACE ENVIRONMENT ON MAN
N64-10146

ELECTROCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR AND SPACE FLIGHT ACCELERATIONS ON HUMAN CIRCULATORY SYSTEM DVL-259 N64-10236

FLIGHT MEDICINE - VEGETATIVE-HORMONAL STRESS
RESPONSE IN MAN, HYPOXIA & METABOLISM, FAT
EMBOLISM DURING DECOMPRESSION
DVL-273 N64-12751

VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES
N64-12752

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN
FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN
BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA
N64-12753

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754

FAT EMBOLISM DURING DECOMPRESSION

N64-12755

N64-12756
HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION

UNDER ACCELERATION N64-13452

DXYGEN DEFICIENCY INFLUENCE ON HUMAN PERFORMANCE AND METABOLIC FUNCTIONS - AVIATION MEDICINE DVL-205. N64-15034

OXYGEN DEFICIENT - INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN
DEFICIENCY IN LOW PRESSURE CHAMBER
N64-15036

HYPERVENTILATION-ALKALOSIS AND BICARBONATE CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR DXYGEN TRANSFER AND CONSUMPTION

ENZYMATIC REACTION BETWEEN IRON & PROTOPDRPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYPOXIA N64-15038

ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN DEFICIENCY - BIOCHEMISTRY N64-15039 INTRAVASCULAR AIR BUBBLE FORMATION AFTER OXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY

ENZYME ACTIVATION DETERMINATION OF DXYGEN
DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME
FORMATION N64-15043

N64-15042

ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND OXYGEN DEFICIENCY N64-15044

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER DXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS

REACTION OF CIRCULATION, RESPIRATION, AND
METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH
ALTITUDE
N64-15046

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS

HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL FAILURE OR MICROMETEOR IMPACT N64-17550

BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH DIFFERENT TESTS IN SAME INDIVIDUAL - BIBLIOGRAPHY DVL-310 N64-19799

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES DVL-351 N64-26665

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY

DVL-225 N64-32326

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS DVL-359 N64-32347

DOCUMENTATION INCORPORATED, BETHESDA, MD.
BIBLIOGRAPHY ON HUMAN FACTORS SYSTEM PROGRAM
NASA-SP-7014
N64-28317

DORNIER-WERKE G.M.B.H., FRIEDRICHSHAFEN /W. GERMANY/.

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL N64-13499

DOUGLAS AIRCRAFT CO., INC., LONG BEACH, CALIF.
VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS
LB-31403
N64-13108

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION
NASA-CR-21
N64-16534

DOUGLAS AIRCRAFT CO., INC., SANTA MONICA, CALIF.

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION
N64-11808

METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE VEHICLES

DUNLAP AND ASSOCIATES, INC., SANTA MONICA, CALIF.

TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS MAINTAINING GROUND STATION EQUIPMENT ND-64-36 N64-21220

PROFICIENCY TEST FOR TECHNICIANS MAINTAINING
TELEMETERING GROUND STATION EQUIPMENT - OPERATOR
PERFORMANCE
ND-64-37
N64-21373

DYNAMIC SCIENCE CORP., SOUTH PASADENA, CALIF.
CHEMICAL STERILIZATION N64-14372

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT SSD-TDR-64-1 N64-19184

E

EDGERTON, GERMESHAUSEN AND GRIER, INC., SANTA BARBARA, CALIF. RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION

CEX-6164 N64-10407

EDUCATIONAL RESEARCH CORP., CAMBRIDGE, MASS.
GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN
FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN
HELICOPTER FLIGHT SIMULATOR
NAVTRADEVCEN-294-5 N64-28636

ELECTRO-VOICE, INC., BUCHANAN, MICH.

SPACECRAFT ENVIRONMENTAL ACOUSTIC TEST FACILITY LISTENING FATIGUE AND COMFORT
AD-442827

N64-32376

COMFORT PROBLEMS RELATED TO SPACECRAFT COMMUNICATIONS EQUIPMENT AD-442828

ELECTRONIC ASSOCIATES, INC., PRINCETON, N.J.

COMPUTERS IN LIFE SCIENCES - BIBLIDGRAPHY N64-17491

ELECTRONIC SYSTEMS DIV., BEDFORD, MASS.
HUMAN PERFORMANCE IN SOUND LEVEL IDENTIFICATION
FOR LEVELS WITH AN UNBALANCED PROBABILITY OF
OCCURRENCE
USAF ESD-TDR-62-352
A64-10959

HUMAN BEHAVIOR IN FUNGUS EATER GAMES ESD-TDR-64-237

N64-22267

N64-18831

N64-32377

EMMANUEL COLL., BOSTON, MASS.

SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE
FILTERING PROCESSES OF TRACHEAL OUTER WALL
E-T-J-63-6

N64-14675

VOCAL SOUND PITCH VARIATIONS OBSERVED FROM VIBRATIONS IN TRACHEAL OUTER WALL E-T-J-63-5 N64-15374

ERLANGEN U. /W. GERMANY/.
TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE
ORGANS — AUDITORY DISCRIMINATION

ESSO RESEARCH AND ENGINEERING CO.. LINDEN.

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS
METEORITES TO THOSE IN MARINE SEDIMENTS EVOLUTION OF LIFE
N64-19584

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE NASA-CR-52217 N64-20682

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES NASA-CR-50703 N64-22761

BIOTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE NASA-CR-53096 N64-23392

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES

METEORITIC ALKANES
NASA-CR-58500
N64-29202

EUROPEAN ATOMIC ENERGY COMMUNITY,
BRUSSELS /BELGIUM/.
MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME
OPERATION WITHOUT REFUELING
EUR-407.F
N64-10465

SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK

N.J.

FUR-474.E

N64-15672

ANATOMICAL & PHYSIOLOGICAL DATA OF GASTRO-INTESTINAL TRACT FOR CALCULATING LEVELS OF RADIOACTIVE CONTAMINATION IN FOOD CHAIN EUR-489-F N64-16927

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT EUR-484.E N64-19296

F

FARR CYTOCHEMICAL LABS., CAMDEN, ME.
IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE &
FUNGI - SPACE FOOD FOR ASTRONAUTS
AMRL-TDR-63-72 N64-11461

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI AMRL-TDR-64-52 N64-29974

FEDERAL AVIATION AGENCY, OKLAHOMA CITY, OKLA-ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

NYSTAGMUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT CARI-63-14 N64-11949

HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL CARI-63-15 N64-11995

IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE CARI-63-11 N64-12346

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE -ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN
HEARING PURE TONES
CARI-63-19 N64-14410

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE PROCEDURES CARI-63-17 N64-14411

PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION CARI-63-13 N64-14544

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-14952

DEPTH PERCEPTION FROM BINOCULAR DISPARITY CARI-63-10 N64-15165

TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM CARI-63-16 N64-16541

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES
FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22 N64-16574

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING CARI-63-18 N64-16728

VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION
BETWEEN PERCEIVED & PHYSICAL DISTANCE
CARI-63-20 N64-17235

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE CARI-63-23 N64-17236

MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT CARI-63-9 N64-23617

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH

OXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK CARI-63-27 N64-23618

ADJACENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES CARI-63-28 N64-23619

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS
CARI-63-26 N64-23700

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845

MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS CARI-63-25 N64-29846

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS CARI-63-29 N64-29847

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS CARI-63-31 N64-29

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33 N64-29849

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS
CARI-63-35 N64-29850

WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS AD-602207 N64-3206

FEDERAL ELECTRIC CORP., PARAMUS, N.J.
PROCEDURE FOR PREDICTION OF TIME AND MANPOWER
REQUIRED FOR MAINTENANCE OF ELECTRONIC EQUIPMENT
REPT.-64-34
N64-2209

FEDERAL RADIATION COUNCIL, WASHINGTON, D.C.
RADIATION PROTECTION STANDARDS TO REDUCE HAZARD
OF RADIOACTIVE CONTAMINATION OF FOOD
REPT.-5
N64-26757

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY, WASHINGTON, D.C.
BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE OF TROOPS AT 10,000 FEET OR ABOVE AD-428100 N64-19965

LONG-RANGE TECHNOLOGICAL FORECASTING IN BIOLOGICAL AND MEDICAL SCIENCES
AD-436723
N64-24070

FLIGHT SAFETY FOUNDATION, INC., NEW YORK, N.Y.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-22042

FLORIDA STATE U., TALLAHASSEE.
PELTIER REFRIGERATORS AS TRANSDUCERS FOR
PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE
N64-11259

AMINO ACID COMPOSITIONS OF PROTEINOIDS

N64-12944

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID N64-19825

BIOSATELLITE PROJECT - MUTATION BY RADIATION AND BIOPHYSICAL STUDIES NASA-CR-50046 N64-22757

GENETIC STUDIES IN SPACE ENVIRONMENTS
NASA-CR-55359 N64-22767

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES

NASA-CR-50483

N64-22775

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIGGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NASA-CR-56526 N64-22787

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-2779

CONVERSION OF LIGHT INTO CHEMICAL ENERGY BY LIVING ORGANISMS
AFOSR-64-1192
N64-31031

FLORIDA U., GAINESVILLE.

EFFECTS OF COMPRESSIBILITY OF ALVEDLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY
SAM-TDR-63-71

AIRWAY RESISTANCE IN NORMAL RESPIRATION MEASURED BY VOLUME DISPLACEMENT PLETHYSMOGRAPH SAM-TDR-64-17 N64-29988

FLYING PERSONNEL RESEARCH COMMITTEE /GT. BRIT./

MODIFICATION TO FACEPIECE OF P AND Q TYPE OXYGEN
MASKS FOR AIRCREWS
FPRC/MEMO-194
N64-20666

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN DURING POSITIVE ACCELERATION IN SITTING POSITION FPRC-1212 N64-22218

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION FPRC/MEMO-191 N64-25842

TRANSMISSION LOSS DETERMINATION IN BICYCLE ERGOMETER
FPRC/MEMO-198 N64-25843

TESTS OF ELECTRICALLY HEATED FLIGHT CLOTHING FPRC/MEMO-200 N64-25844

SEAT-MOUNTED DXYGEN SUPPLY SYSTEM FOR LIGHTNING AIRCRAFT FPRC/MEMO-202 N64-25

FPRC/ MERU-202 N64-25845

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION FPRC-1207 N64-2584

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION
AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH
ALTITUDE FLIGHT
FPRC-1214
N64-25848

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE FPRC/MEMO-203 N64-26000

LIST OF REPORTS FOR FLYING PERSONNEL

FPRC-1178

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES FPRC/MEMO-201 N64-28698

FPRC/MEMO-201 N64-28698
SENSORY INTERACTION AND OPERATOR PERFORMANCE

REACTION TO BISENSORY PRESENTATION OF INFORMATION FPRC-1209/A/ N64-29766

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS FPRC-1209/B/ N64-29767

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE FPRC-MEMO-199 N64-29768

FMC CORP., PRINCETON, N.J.

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT
RESPIRATORY SYSTEM
NASA-CR-52972
N64-11801

FOOTE MINERAL CO., EXTON, PA.

THERMOCHEMICALLY SELF-PROPAGATING DXYGENGENERATING COMPOSITION USING LITHIUM PERCHLORATE,
MANGANESE POWDER, & LITHIUM PEROXIDE
AMRL-TDR-64-1
N64-18600

FORDHAM U., NEW YORK, N.Y.
SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS
METEORITES TO THOSE IN MARINE SEDIMENTS EVOLUTION OF LIFE
N64-19584

FRANKFORD ARSENAL, PHILADELPHIA, PA.
LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE
FA-M64-23-1
N64-17649

FROST ENGINEERING DEVELOPMENT CORP., DENVER, COLO.

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION TECH. REPT.-115-2 N64-14779

G

GAUSTAD MENTAL HOSPITAL, DSLO /NORWAY/.
FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

GENERAL AMERICAN TRANSPORTATION CORP., NILES,

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING
FOODS DURING AEROSPACE FLIGHTS
MR-1187-60
N64-16812

OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER
MRD-1242-2530 N64-28141

GENERAL DYNAMICS CORP., GROTON, CONN.

MASH WATER RECOVERY FOR EXTENDED DURATION SPACE
FLIGHTS
AIAA PAPER-64-212

N64-21538

WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE
U413-64-056
N64-26883

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS

N64-28949

GENERAL DYNAMICS/FORT WORTH, TEX.

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR

CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS

ASD-TDR-63-242

N64-19892

GENERAL ELECTRIC CO., CINCINNATI, DHIO.
EFFECT OF NOISE FROM CARRIER DECK JET ENGINE
OPERATION ON HEARING, SPEECH INTERFERENCE, AND
SONIC FATIGUE
AD-432086
N64-21840

GENERAL ELECTRIC CO., PHILADELPHIA, PA.
BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MANMACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED
AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226

CLOSED ECOLOGICAL SYSTEMS FOR WATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT R63SD83 N64-33604

GENERAL ELECTRIC CO., SCHENECTADY, N.Y.
BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS
KAPL-M-TL-1
N64-21844

GENERAL MILLS, INC., MINNEAPOLIS, MINN.
EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN
STRATOSPHERE
NASA-CR-50698
N64-22769

GENERAL TECHNICAL SERVICES, INC., CLEVELAND, $\ensuremath{\mathsf{OHIO}}_{\bullet}$

DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR NASA-CR-129 N64-32833

GEORGE WASHINGTON U., WASHINGTON, D.C.
CONDITIONS AFFECTING VIGILANCE BEHAVIOR AND

			-
RELATION TO VARIATION IN DETECTION RESPO HUMRRO-RB-10	NSE N64-13106	HARVARD U., CAMBRIDGE, MASS. HYGIENIC PROBLEMS IN RADIOACTIVE CONTAM OUTER SPACE	
EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY NASA-CR-53806	N64-23393	JPRS-23284	N64-15397
HALLUCINATIONS AS FUNCTION OF SUSTAINED	SENSORY	BIOLOGICAL EFFECTS OF HIGH ENERGY PROTO IRRADIATION OF HUMANS AND OTHER ANIMALS	N N64-33195
DEPRIVATION AND SOCIAL ISOLATION AD-439431	N64-25127	NASA-CR-5887 HINE LABS., INC., SAN FRANCISCO, CALIF.	1104 33173
TRAINING, MOTIVATION, AND HUMAN ENGINEER AD-446448	RING N64-29918	MECHANISM OF ACUTE TOXIC EFFECTS OF HYD HYDRAZINE COMPOUNDS AMRL-TDR-64-26	RAZINE AND N64-22373
PERSONNEL TRAINING PROGRAM DEVELOPMENT		HIROSHIMA U. /JAPAN/.	
HUMRRO-RB-11	N64-32681	RELAXATION OF MAMMALIAN SMOOTH MUSCLE E CURRENT STIMULATION	Y ELECTRIC
BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT TRAINING QUALITY CONTROL		FR-2	N64-19086
AD-448362	N64-32813	HOFSTRA COLL., HEMPSTEAD, N.Y. AUDITORY PAIN THRESHOLDS FOR INTERMITTE	NT WHITE
GEORGIA U., ATHENS. ANIMAL POPULATION AND ECOLOGY AT ATOMIC	POWER-	NOISE	N64-15889
PLANTS	N64-16554	AD-236942	N04-13003
TID-19562 GEOSCIENCE LTD., LA JOLLA, CALIF.	NOT 10331	HORIZONS INCORPORATED, CLEVELAND, OHIO. EXTRACTION OF OXYGEN FROM SEA WATER BY	DIFFUSION
THERMAL AND ELECTRICAL CONDUCTIVITIES OBIOLOGICAL FLUIDS AND TISSUES		THROUGH THIN PLASTIC MEMBRANES AD-437359	N64-24807
GLR-24	N64-25892	HOUSTON U., TEX.	
GOTEBORG U. /SWEDEN/. PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND CHROMIUM IN CITRATE BUFFER SOLUTION THR	OUGH BLOOD-	NONENZYMATIC SYNTHESIS OF NUCLEIC ACID AND ABIOGENESIS OF NEURINES, PYRIMIDINI PENTOSRIBOSE AND DEOXYRIBOSE	COMPONENTS ES, N64-29699
BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA	N64-14589	HRB-SINGER, INC., STATE COLLEGE, PA. IMPROVING PROFICIENCY OF FIRE CONTROL BY USE OF TRAINING AIDS	TECHNICIANS
GOTTINGEN U. /W. GERMANY/. QUINONES IN PHOTOSYNTHETIC REACTIONS OF	ISOLATED	NAVTRADEVCEN-1105-1	N64-29280
CHLOROPLASTS AFCRL-64-760	N64-33104	HUGHES AIRCRAFT CO., CULVER CITY, CALIF. MEASUREMENT OF STIMULUS COMPLEXITY IN TRESOLUTION SENSOR IMAGERY	HIGH
GOVERNMENT HOSPITAL TEL-HASHOMER /ISRAEL/- LIPID PEROXIDES ROLE IN HYPEROXIA EFFEC CENTRAL NERVOUS SYSTEM	T ON RAT N64-14607	AMRL-TDR-64-29	N64-26960
GRUMMAN AIRCRAFT ENGINEERING CORP., BETHPA	GE•	HUGHES AIRCRAFT CO., FULLERTON, CALIF. COLOR FILTERING AND DISPLAY TECHNIQUE VISUAL PERCEPTION - SPECTRA ZONAL PHOT	EFFECTS ON OGRAPHY AND
PRODUCTION METHOD FOR CONTROLLED MICROS CORROSION ON TEST SPECIMENS		TARGET DETECTION FR-63-11-287	N64-13846
ADN-09-08A-63.1	N64-23899	HUMAN FACTORS RESEARCH, INC., LOS ANGELES	,
GT. BRIT. DEPT. DF SCIENTIFIC AND INDUSTR	IAL	CALIF. GEOGRAPHIC ORIENTATION & DISORIENTATIO	N OF
RESEARCH. ANNOTATED BIBLIOGRAPHY ON HUMAN SCIENCE	S IN N64-28104	AIRCRAFT PILOTS TR-751-1	N64-13608
INDUSTRY - ERGONOMICS	N64-28104		MARY AND
Н		HUMAN BEHAVIOR - DISCRIMINATION OF PRI SECONDARY VISUAL VIGILANCE TASKS	
HAMMERSMITH HOSPITAL, LONDON /GT. BRIT./ EFFECT OF NEUROMUSCULAR BLOCKING AGENT	ΩN	AD-437334	N64-20318
DIAPHRAGM TISSUE OF RAT	N64-30538	EFFECT OF REFERENCE DISPLAY ON HUMAN D PERFORMANCE IN VISUAL VIGILANCE TASK	
HANFORD ATOMIC PRODUCTS OPERATION, RICHLAN	4D.	TR-750-2	N64-20409
WASH. SURVEILLANCE OF RADIOACTIVE MATERIALS		GEOGRAPHICAL DRIENTATION DURING LOW AL FLIGHT	N64-31509
WATER, AND FOOD HW-79652	N64-14924	HUMAN SCIENCES RESEARCH, INC., MCLEAN, VA	le IVERC TO
HARRY DIAMOND LABS., WASHINGTON, D.C.		LABORATORY STUDIES OF ABILITY OF OBSER PERFORM THREE VISUAL TASKS REQUIRED OF	PILOTS IN
PROTECTION OF HUMAN EYE FROM LASER BEAN TR-1153	M N64-24092	APPROACH AND LANDING HSR-RR-63/7-MK-X	N64-10444
HARVARD SCHOOL OF PUBLIC HEALTH, BOSTON,		ABILITY OF HUMAN SUBJECTS TO PERFORM N	ISUAL TASKS
BIOASTRONAUTICAL CONTRIBUTIONS TO MEDI		REQUIRED IN APPROACH AND LANDING	N64-10445
HARVARD U., BOSTON, MASS.		ABILITY OF HUMAN SUBJECTS TO PERCEIVE	SIX BASIC
OXYGEN CONSUMPTION AND CATECHOLAMINE R ADRENAL SLICES AND RATE OF RESPIRATION		GEOMETRIC DESIGNS AT VARIOUS ANGLES HSR-RR-61/13-MK-X	N64-10446
SAM-TDR-63-50	N64-12835	ABILITY OF HUMAN SUBJECTS TO ALIGN WIT	TH LINEAR
LOW TEMPERATURE EFFECT ON ISOLATED HEA GROUND SQUIRRELS	RTS OF	STIMULI HSR-RR-62/9-MK-X	N64-10447
AAL-TDR-63-4	N64-13630	HUMAN PERFORMANCE IN ADJUSTING LINEAR	STIMULUS TO
HIBERNATION IN MAMMALS AND BIRDS	N64-13661	HORIZONTAL POSITION HSR-RR-63/2-MK-X	N64-10448
	_		

IIT RESEARCH INST., ANNAPOLIS. MD. BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL **ENVIRONMENT** NASA-CR-53106 N64-16745 IIT RESEARCH INST., CHICAGO, ILL.
SURVIVAL OF EARTH MICRODRGANISMS IN SIMULATED MARS FNVIRONMENT NASA-CR-52841 N64-11293 CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS IITRI-16002-4 BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT NASA-CR-53106 RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN ENVIRONMENT SAM-TDR-64-9 ANAEROBIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL ENVIRONMENTS NASA-CR-50934 N64-22758 BACTERIAL SURVIVAL IN SIMULATED MARTIAN **ENVIRONMENT** NASA-CR-50516 N64-22759 SURVIVAL OF MICRODRGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115 SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559 ILLINOIS U., CHICAGO.
INFLUENCE OF HYPOXIA ON VARIOUS PATHOLOGICAL
CHANGES - HYPOXEMIC LESIONS N64 N64-14598 CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA N64-14603 ILLINOIS U., URBANA. INFORMATION THEORY - LOGIC OF MECHANISH AND THEORY OF SIMPLIFICATION - BIONICS N64-18828 MOLECULAR BIONICS N64-18837 PSYCHOLOGY - TAXONOMY OF LEARNING TASK CHARACTERISTICS AMRL-TDR-64-2 N64-19815 HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN ESD-TDR-63-320

HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN ESD-TDR-63-320 N64-21081

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION M64-21553

THREE-MAY FACTOR ANALYSIS OF MULTITRAIT— AFMULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL TEST RESULTS AD-600302 N64-29659

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK SAM-TDR-64-34 N64-29794

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES — COLD, EXERCISE, AND STARVATION APR-2 N64-32144

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE

INDIANA U., BLOOMINGTON.
HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND
HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO
ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
N64-14606

IN RATS CAUSED BY IRRADIATED FOOD

ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY DEPRIVATION TR-9 N64-26053

FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC ILLUSION TR-10 N64-26278

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN ~ HUMAN PERFORMANCE N64-30721

INDUSTRIAL BIOLOGY RESEARCH AND TESTING LABS.,
INC., PHILADELPHIA, PA.

DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY
OF CHEMICAL COMPOUNDS
AMRL-TOR-64-13

N64-18932

INFORMATION INTERNATIONAL, INC., MAYNARD,
MASS.
PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR
PSYCHOLOGICAL RESEARCH
ESD-TDR-63-353 N64-14469

INNSBRUCK U. /AUSTRIA/.
COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
QTSR-3 N64-22241

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS
REPT.-2 N64-28581

INSTITUT PASTEUR, PARIS /FRANCE/.

RADIOCHEMISTRY OF PYRMIDINE BASES - ACTION OF
RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF
BACTERIA
EUR-1646.F N64-28659

INSTITUTE FOR RESEARCH, STATE COLLEGE, PA.
DECISION THEORY - MEASUREMENTS OF SUBJECTIVE
PROBABILITY AND UTILITY PROBLEMS
ESD-TDR-63-622 N64-16074

MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY LEARNING AD-600474

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR ESD-TDR-64-193 N64-21533

INSTITUTE OF CANCER RESEARCH. ROYAL CANCER
HOSPITAL, LONDON /GT. BRIT./
MECHANISM OF ACTION OF RADIATION PROTECTIVE
CHEMICALS
AD-439992
N64-26633

INSTITUTE OF OCCUPATIONAL HEALTH, HELSINKI
/FINLAND/.
EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE
TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF
MAN
AMRL-TDR-63-85 N64-12215

THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT AMRL-TDR-63-86 N64-12216

INSTRUMENT PILOT INSTRUCTOR SCHOOL, RANDOLPH
AFB, TEX.
INTERVENING LEVELS OF CONTROL BETWEEN FULL MANUAL
AND FULL AUTOMATIC - EFFECT UPON PILOT PERFORMANCE
AD-441953
N64-30199

INTERNATIONAL BUSINESS MACHINES CORP., OMEGO, N.Y. IMAGE QUALITY AND MILITARY TARGET RECOGNITION PERFORMANCE N64-10532

IOWA STATE U. OF SCIENCE AND TECH., AMES.
SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES PUBLIC FALLOUT SHELTERS
AD-603125
N64-32529

N64-26906

ISOMET CORP., PALISADES PARK, N.J.
CARBON DIOXIDE REDUCTION SYSTEM
AMRL-TDR-64-42

ISRAEL PROGRAM FOR SCIENTIFIC TRANSLATIONS, LTD., JERUSALEM. PHYSIOLOGICAL RESPONSE OF NERVOUS SYSTEM

COMPONENTS IPST-985

N64-11946

STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN - NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID 1951-990 N64-2220

NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL, INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM IPST-1014 N64-22232

BLOOD CIRCULATION IN BRAIN OTS-63-11171

N64-26351

ISTITUTO DI RICERCHE FARMACOLOGICHE /MARIO
NEGRI/, MILAN /ITALY/.
ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS
AD-447846 N64-3360

ITEK CORP., PALO ALTO, CALIF.
BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES
USING AUSCULTATORY TECHNIQUES
NASA-CR-56024
N64-20588

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED ARTERIES N64-22425

J

JEFFERSON MEDICAL COLL., PHILADELPHIA, PA.
THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDEEXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL
SAM-TDR-63-101 N64-15746

JET PROPULSION LAB., CALIF. INST. OF TECH.,
PASADENA.

PREPARATION & PROPERTIES OF UREASE ENZYME IN SOIL N64-15716

CHEMICAL AND RADIATION STERILIZING AGENTS -BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS NASA-CR-58123 N64-26372

JEWISH HOSPITAL OF BROOKLYN, N.Y.
ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND
CATECHOLE DERIVATIVES
ARL-TDR-63-29
N64-14971

JOHN B. PIERCE FOUNDATION OF CONNECTICUT, NEW HAVEN.

REDUCED SET POINT TEMPERATURE IN EXERCISING DOG AMRL-TDR-63-93 N64-12219

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE
COLD EXPOSURE AT NIGHT
AAL-TDR-62-44
N64-13645

JOHNS HOPKINS U., BALTIMORE, MD. EFFECT OF COLD ON PROTEIN METABOLISM IN RATS TN-62-11 N64-13830

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS
PHYSIOLOGICAL CONDITIONS
N64-14582

JOINT PUBLICATIONS RESEARCH SERVICE, WASHINGTON, D.C.

HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND ANIMAL BLOOD COMPOSITION AND PROPERTIES

JPRS-21405

N64-10002

VARIOUS ASPECTS OF BURN INJURIES

JPRS-21680 N64-10006

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL RADIATION INJURY N64-10008

BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST
BACKGROUND OF RADIATION EFFECT N64-10009

THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN BURN SHOCK N64-10010

TOXICOLOGY OF RADIOACTIVE MATERIALS

JPRS-21511

N64-10037*

COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE IRON-59 IN ORGANISM N64-10038

POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-10039

TECHNIQUES AND METHODS OF CONDUCTING PHYSIOTHERAPEUTIC PROCEDURES
JPRS-21725

N64-10050

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS JPRS-21492 N64-1006

EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN
THERMOPHILIC PLANT
JPRS-21501 N64-10067

TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT JPRS-21613 N64-10068

MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY
AUTORADIOGRAPHY
JPRS-21629
N64-10069

BODY REACTION TO PAINFUL STIMULI - ACTIVE AND PASSIVE
JPRS-21617 N64-10117

RECOVERY OF REPRODUCTION CAPACITY OF X RAY
IRRADIATED YEAST CELLS
JPRS-21619 N64-10118

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS JPRS-21628 N64-10119

EFFECT OF IONIZING RADIATION ON HEREDITARY
MOLECULAR STRUCTURES - BIBLIOGRAPHY
JPRS-21754 N64-10121

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS JPRS-21586 N64-10197

CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES JPRS-21-590 N64-10198

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE

JPRS-21610 N64-10201

LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY
TAUGHT, & SELF-TAUGHT
JPRS-21770 N64-10204

DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND DUSTS
JPRS-21771 N64-10205

PROPAGATION OF ULTRASONIC WAVES IN BLOOD OF DOGS -DYNAMICS OF ACUTE RADIATION SICKNESS JPRS-21775 N64-10206

MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN FROM LOCAL ULTRASONIC IRRADIATION JPRS-21776 N64-10207

SOVIET SPACE FLIGHT TRAINING OF ASTRONAUTS
JPRS-21829 N64-10208

STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER

NO.5-21904

N64-10269

JPRS-21806 N64-10269

PHILOSOPHICAL ANALYSIS OF BASIC CYBERNETIC MODELS JPRS-21807 N64-10270

COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521 N64-10326

EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND CIRCULATORY SYSTEM
JPRS-21864 N64-

N64-10327

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS
JPRS-21868

N64-10328

BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION
OF LIFE PHENOMENA
JPRS-21966
N64-10239

N64-10329

REACTIONS TO ACCELERATION JPRS-21908

N64-10383

DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR JPRS-21974

N64-10385

ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION JPRS-21975 N64-10386

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT
WHILE BREATHING DXYGEN
JPRS-21984
N64-10388

SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM DOSES
JPRS-21997

ULTRASONIC DEVICE FOR REMOVAL OF DENTAL CALCULUS

JPRS-21998 N64-10390
TRAINING FOR DXYGEN DEFICIENCY IN WHITE RATS

IMMEDIATELY AFTER SEVERE BURN INJURY

JPRS-21999 N64-10391

EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS IN RATS AND MICE JPRS-22000 N64-10392

TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION IN RABBITS AFTER ACUTE RADIATION INJURY JPRS-22001 N64-10393

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY JPRS-18045

REMOVING RADIDACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775 N64-10456

CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN PROTEIN RICH BIOMASSES
JPRS-17433 N64-10476

LITERATURE REVIEW OF TELEVISION MICROSCOPY IN BIOLOGY AND MEDICINE JPRS-18229

EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS & BIOLOGICAL RHYTHMS ON MAN IN SPACE
JPRS-18627

CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF MANGANESE OXIDES
JPRS-18698 N64-10504

OUTLINE OF SOVIET LITERATURE ON HUMAN
ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE
JPRS-18772

COMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY OF CYBERNETIC MECHANISM JPRS-18873

MEDICAL JOURNAL - ACADEMY OF MEDICAL SCIENCES USSR JPRS-21526 N64-10513

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514

MEDICAL CONFERENCES ON MINERAL WATER USE, CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE PHYSIOLOGY, AND EPIDEMIOLOGY JPRS-21836

N64-10515

HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE AREAS N64-10516

BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY
JPRS-21894

RADIATION HAZARD IN X-RAY CLINICS, CAPACITOR DOSIMETER FOR X-RAY AND GAMMA RADIATION, AND ELECTROKYMOGRAPHS
JPRS-17533
N64-10561

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL MANGAMESE POISONING
JPRS-17557

BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACID-

FIBONUCLEIC ACID INTO PROTEIN

JPRS-17811

N64-10566

RADIATION EXPOSURE CONTROL METHODS AND RADIOACTIVE MATERIAL DOSAGES

JPRS-18522 N64-10575

THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS JPRS-19999 N64-10592

RADIDACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY -HYDROBIOLOGY JPRS-20614 N64-10593

DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM JPRS-21415 N64-10595

EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM JPRS-21472 N64-10596

ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH JPRS-21481 N64-10597

EXTRATERRESTRIAL LIFE - METEORITES, PLANETS, AND OUTER SPACE ENVIRONMENTS

RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH JPRS-20013 N64-10600

TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL RESEARCH
JPRS-17672 N64-10629

HISTORY, NATURE, AND THEORY OF ASTROBIOLOGY
JPRS-17724
N64-10643

CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING RADIATION IN MAMMALS

JPRS-18918 N64-10647

THEORIES ABOUT CREATION OF LIFE FORMS
JPRS-19231 N64-10650

THEORETICAL ANALYSIS OF STRUCTURE OF TACTILE
SENSATION USING CYBERNETICAL CONCEPTS
JPRS-19565
N64-10658

EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS JPRS-22017 N64-10664

MEANS & METHODS OF USING ELECTRONICS IN SCIENTIFIC & PRACTICAL MEDICINE JPRS-17497 N64-10682

SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR JPRS-17498 N64-10683

ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF ESSENTIAL HYPERTENSION N64-10684

BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING TASKS JPRS-17500 N64-10690

IONIZING RADIATION AS A FOOD PRESERVATIVE
JPRS-17530 N64-10694

CYBERNETIC FEATURES OF HUMAN OPERATORS IN AUTOMATIC CONTROL SYSTEMS
JPRS-17544

N64-10695

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS

N64-10703

BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS
OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND
STRUCTURAL-MORPHOLOGICAL TECHNIQUES
JPRS-1717
N64-10713

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY RADIATION SICKNESS, CONGENITAL DISEASE, AND
HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819 N64-10723

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL COMPUTER
JPRS-18126 N64-10742

BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION

SICKNESS IN RATS
JPRS-18153
N64-10744

RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS - EPISTEMOLOGY N64-10751

RESISTANCE OF INSECT METABOLISM AT ULTRALOW
TEMPERATURE
JPRS-18218 N64-10752

BIOCHEMICAL ANALYSIS OF PSYCHOLOGICAL EFFECT ON BRAIN ACTIVITY - HUMAN BEHAVIOR JPRS-18315 N64-10756

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETHORKS, AND ANALYZERS & PERCEPTORS - CYBERNETICS N64-10759

BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER IONIZING RADIATION

JPRS-18479 N64-10769

VIBRATION EFFECT ON METABOLIC SYSTEMS AND THERMAL DEHYDRATION OF SALTS JPRS-18576 N64-10780

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-1078:
VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL

VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL NERVOUS AND CARDIOVASCULAR SYSTEMS N64-10782

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783

PROBLEMS ON HUMAN ENGINEERING PSYCHOLOGY AND VISUAL AND SPATIAL PERCEPTION JPRS-18719 N64-10786

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787

RESPIRATION AND ENERGY TRANSFORMATION IN LIVING ORGANISMS N64-10797

BIOLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC TREATMENT N64-10798

IRRADIATION EFFECTS ON MICE AND RABBITS, THYROID FUNCTION DETERMINATION, RADIOBIOLOGY, AND MAMMARY CANCER PREOPERATIVE IRRADIATION JPRS-18904 N64-10807

HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR

INFORMATION RETRIEVAL JPRS-19100

N64-10814

ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL ACTIVITY OF STOMACH DURING DIGESTION
JPRS-21925 N64-10850

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING -PSYCHOLOGY JPRS-21976 N64-10852

INTERACTION OF FREE RADICAL FROM INHIBITORS OF ENZYMES WITH PROTEIN SULFUR COMPOUNDS

N64-10854

EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES POST-BURNING CHANGES IN METABOLISM
JPRS-22022 N64-10856

RADIOLOGICAL MEDICAL ENCYCLOPEDIA
JPRS-18414

N64-10866

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA

JPRS-18855 N64-10867

UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY
IN HOSPITALS
JPRS-17534 N64-11004

SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION
JPRS-18020 N64-11023

SELF-LEARNING AS BASIC STEP IN DESIGN OF SELF-ADJUSTING SYSTEMS N64-11039

MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC LEARNING SYSTEMS N64-11040

BIOMETRICS & THE BIOLOGICAL SCIENCES

JPRS-18392

N64-11043

THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY JPRS-18432 N64-11044

CYBERNETICS IN EDUCATION AND AUTOMATION

JPRS-18832 N64-11058

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059

CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES N64-11060

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS
JPRS-19066 N64-11063

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUORINE, SANITARY INDICES FOR WATER RESERVOIR, AND AIR IONIZATION JPRS-19067 N64-11064

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY
TEXTBOOK
JPRS-19278
N64-11066

EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284 N64-11067

ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG MUSCLES JPRS-19287 N64-11068

RADIOSENSITIVITY OF ORGANISMS TO IONIZING
RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN
PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363
N64-11069

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN JPRS-18960 N64-11121

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL
MEDICINE OF HUMAN BODY ELECTRIC FIELDS
JPRS-19030 N64-11123

PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS JPRS-19043 N64-11124

LOWERING THE IMMUNOBIOLOGICAL RESISTANCE OF ORGANISMS AS MANIFESTATION OF IRREVERSIBLE COMPONENT OF RADIATION SICKNESS JPRS-19152 N64-11127

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT JPRS-19953 N64-11131

DEVELOPMENT OF BIOCHEMICAL SUBSTANCES BY MICROBIOLOGICAL TRANSFORMATION FOR CHEMOTHERAPY N64-11132

ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS JPRS-20100 N64-11133

SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, MEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD JPRS-20168

PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS JPRS-20171

IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND CHANGES IN NEURAL TISSUE DUE TO IRRADIATION JPRS-20317 N64-11136

STRESS ON HUMAN BODY BY ACCELERATION AND WE IGHTLES SNESS JPRS-20345

INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND SALMONELLA THYPIMURIUM

N64-11211

CELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND MATHEMATICAL EXPLANATION JPRS-19286 N64-11216

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT OF ORGANS OF HEALTHY AND IRRADIATED RATS N64-11217

HISTORY OF AVIATION MEDICINE JPRS-19125

N64-11219

N64-11223

N64-11225

N64-11137

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN JPRS-19936 N64-11220

PHYSIOLOGICAL CONSCIOUSNESS OF BRAIN JPRS-20270

BIOCHEMICAL CHANGES RESULTING FROM IRRADIATION HIGH TEMPERATURE, BURNS, & POLIOMYELITIS - MINERAL & PROTEIN METABOLISM, & IMMUNOLOGICAL DATA JPRS-20298 N64-11224

CARDIAC ARREST & RESUSCITATION JPRS-22010

LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN SUCCESSFULLY RESUSCITATED PATIENTS JPRS-22012 N64-11226

PSYCHOPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT JPRS-22042 N64-11269

DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS OF TEACHING METHODS JPRS-22075 N64-11270

PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA RADIATION ON CARRION FLIES AND THEIR PROGENY JPRS-22107 N64-11272

PROTON AND GAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS JPRS-22120 N64-11273 CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES JPRS-22121

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS JPRS-18644

ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN BODIES BY IONIZING RADIATION JPRS-18938 N64-11317

THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN BLOOD COAGULATION HEMOSTATIC PROCESS JPRS-19219

EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE **ENVIRONMENT** JPRS-20011 N64-11319

MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING N64-11320

IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE JPRS-19269 N64-11349

PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN JPRS-19762 N64-11352

IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS JPRS-19806

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS -IMMUNOLOGY & RADIATION SICKNESS JPRS-20040 N64-11354

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES JPRS-20421 N64-11355

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY JPRS-21909

BLOOD LEUKOCYTE CHANGES IN PERSONS DUE TO IONIZING RADIATION UNDER VARIOUS OCCUPATIONAL CONDITIONS JPRS-22122

EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON GAMMA RADIATION SICKNESS IN RATS JPRS-22123 N64-11358

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY CHANGES OF THIOL GROUPS IN LIVER OF X-RAY IRRADIATED MICE JPRS-22125 N64-11359

MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT PRIMARY NEURON LEVEL OF AUDITORY SYSTEM JPRS-18659 N64-11414

BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS, TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND APPLICATION TO OTHER BRANCHES OF MEDICINE .IPRS-18967

CONSTRUCTION & OPTIMAL CONTROL OF AUTOMATIC MACHINES - CYBERNETICS JPRS-22188 N64-11416

CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE JPRS-22189 N64-11417

APPARATUS FOR CORRELATIVE ANALYSIS OF PHYSIOLOGICAL PROCESSES

N64-11430

EFFECTIVENESS OF ANTIHISTAMINES IN ANESTHESIOLOGY

JPRS-22058

N64-11432

COMBINED ACTION OF NEUTRON IRRADIATION AND ELEVATED TEMPERATURE ON ANIMALS

JPRS-20379 N64-11433

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS

UNDER INCREASED GRAVITY OF ACCELERATION N64-11523

MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS AT VARIOUS AGES - SENSORY STIMULATION N64-11524

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS - SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION

N64-1153

STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM N64-11534

GENERAL PURPOSE COMPUTER, SPECIAL BIOLOGICAL TYPE SYSTEM, SELF-ORGANIZATION, AND CONTROL SYSTEM SIZES AND SCOPES N64-11535

IONIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM JPRS-17659 N64-11607

X-RAY IRRADIATION EFFECT ON PROTHROMBIN AND THROMBOPLASTIC FORMATION IN BLOOD COAGULATION SYSTEM N64-11608

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION ON HEMATOLOGIC ORGANS AND BLOOD

N64-11609

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION JPRS-18021 N64-1162

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-22292 N64-11781

IMMUNOLOGY OF ACUTE RADIATION INJURY

JPRS-18620 N64-11829

RADIATION EFFECT ON ANTIMICROBIAL IMMUNITY N64-11830

INFECTION PROCESSES IN IRRADIATED ANIMALS - RADIATION EFFECT N64-11831

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS N64-11832

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD ACCELERATIONS N64-11852

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT

N64-11853

WORKING CONDITION EVALUATION & HEALTH STATUS OF PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY ELECTRIC CURRENTS N64-1185

TRANSLATIONS FROM ACADEMY OF SCIENCES USSR -BIOLOGICAL SERIES JPRS-19571 N64-11859

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS N64-11861

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862

SYSTEMIC ORGANIZATION IN THEORETICAL BIOLOGY
JPRS-22228 N64-11869

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS
FOR ULTRASONIC PHYSIOTHERAPY
JPRS-22280 N64-11871

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS

JPRS-22300 N64-11
EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC

PHOSPHORUS INSECTICIDES

JPRS-22450

N64-11874

AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS JPRS-22345 N64-11917

CYBERNETICS IN MEDICINE & PHYSIOLOGY
JPRS-22377 N64-11918

INDIVIDUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES FOR TRANSFUSION JPRS-22401 N64-11959

CHARACTERIZATION OF VITAL MANIFESTATIONS OF TEMPERAMENT JPRS-22405 N64-12009

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID
MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE
ORANGE DYE
JPRS-22521
N64-12067

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY
OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522
N64-12068

ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION, ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS
JPRS-22213 N64-12139

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS

JPRS-22508 N64-12142

GNOSIOLOGICAL NATURE OF INFORMATION MODELING JPRS-22518 N64-12144

IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN JPRS-22520 N64-12145

ANTIHYPERTENSIVE DRUG SYNTHESIS

JPRS-22524

BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH ACUTE RADIATION SICKNESS
JPRS-22591 N64-12149

N64-12146

MEDICAL RADIO TELEMETRY AND ELECTRONICS
JPRS-22551 N64-12356

BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS
JPRS-22580 N64-12357

CORTICAL REGULATION OF WATER & SALT METABOLIC BALANCE JPRS-22523 N64-12392

CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS
JPRS-22585 N64-123

BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS
JPRS-19163 N64-12432

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12433

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION

N64-12434

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY COBALT-60 AND CERIUM-144 N64-12435

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM N64-12437

MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROMINE, AND RUBIDIUM N64-12438

ALGAE FOR HUMAN NUTRITION AND CALCIUM & PHOSPHORUS USED TO REDUCE STRONTIUM-90 CONTENT OF RAT SKELETON
JPRS-22295

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-12443

CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN SKELETAL BONES OF RATS N64-12444

ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE CELL DIFFERENTIATION IN REGENERATING BONE

N64-12497

LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON
N64-12498

MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC FIELD N64-12499

VISUAL PERCEPTION STUDIES & PSYCHOLOGY JPRS-19615

N64-12504

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-12505

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION
N64-12506

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY
N64-12508

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE
N64-12509

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER
OF NUCLEOSIDE SUBSTANCES N64-12510

TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING OF PROTEIN

PHYSIOLOGY & PROBLEMS OF CYBERNETICS

N64-12512

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA -CYBERNETICS N64-12513

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS
N64-12514

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA -CYBERNETICS N64-12516

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517

CURRENT IN BRAIN - CYBERNETICS N64-12517
INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR

FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS N64-12518

ANALYSIS OF INFORMATION PROCESSING MECHANISM IN BRAIN - CYBERNETICS N64-12519

BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS N64-12520 CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION
IN RETINA - CYBERNETICS N64-12521

VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR RETINAL IMAGE - CYBERNETICS N64-12522

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523

AUTOMATIC TEACHING MACHINE FOR VISUAL PERCEPTION - CYBERNETICS

N64-12524

COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND INSTRUCTION FOR RECOGNITION - CYBERNETICS

N64-12525

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS

N64-12526

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS N64-12527

BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL -CYBERNETICS N64-12528

PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS —
INTERNAL PROCESS SELF-REGULATION — CYBERNETICS
N64-12529

AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC EQUIPMENT - CYBERNETICS N64-12530

BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS, ENZYME INHIBITORS, AND RADIOBIOLOGY JPRS-19995

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY

N64-12571

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON ADENOSINE TRIPHOSPHORIC ACID AND CREATINE PHOSPHATE CONTENT N64-12572

IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573

RADIATION AND CHEMICAL GENETIC EFFECTS
JPRS-22581 N64-12701

LEUKOSTS IN MICE DUE TO IONIZING RADIATION
N64-12724

DIRECT-CURRENT EFFECT ON ULTRABOUNDARY
INHIBITION IN DOGS N64-12725

PAPERS ON INDUSTRIAL SAFETY INCLUDING TOXIC AGENTS, CHRONIC IRRADIATION EFFECTS, AND X-RAY WORKERS SAFETY
JPRS-22154

N64-12747

MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES
N64-12748

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY N64-12749

PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH X-RAY MACHINES - RADIATION HAZARD

N64-12750

BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES
JPRS-22180 N64-12764

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765

TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL INFUSION OF BLOOD SUBSTITUTE AT LOW PRESSURE
N64-12766

PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH

SEVERE BURNS

N64-12767

BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE METABOLIC PRODUCTS DURING RESUSCITATION AFTER N64-12768 CLINICAL DEATH

PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC N64-12769 HORMONE IN RADIATION SICKNESS

METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT N64-12770

METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED N64-12771 SENSITIVITY

TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME

N64-12772

EARLY DIAGNOSIS OF RADIATION SICKNESS JPRS-22049

N64-12776

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD PROTEIN - INVESTIGATION USING THERMAL PROPERTIES OF BLOOD SOLUTIONS

PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE N64-12778 RADIATION SICKNESS

PROTEIN METABOLISM IN RABBITS DURING ACUTE N64-12779 RADIATION SICKNESS

PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR N64-12780 ACUTE RADIATION SICKNESS

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION N64-12782

TOXICITY OF RAT BLOOD PLASMA DURING RADIATION N64-12783 SICKNESS

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO N64-12784 RADIATION

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE N64-12793 JPRS-22083

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST N64-12795 CELLS AFTER GAMMA RADIATION

REGENERATION OF RAT LIVER AFTER LOCAL X-RAY N64-12796

ANTIRADIATION ACTIVITY OF SULFUR AMIND ACID N64-12797 COMPOUNDS ON ANIMAL TISSUE

RADIATION SICKNESS JPRS-19996

N64-12801

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES N64-12802 IN IRRADIATED MICE

EFFECT OF ULTRAVIOLET RADIATION ON RADIATION N64-12803 SICKNESS IN RATS

PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, & N64-12804 THERAPY OF RADIATION INJURY

INHIBITING ACTION OF DEDXYRIBONUCLEASE ON **ADENOVIRUSES** N64-12883 JPRS-22050

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON N64-12884 ADENDVIRUSES IN TISSUE CULTURE

THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN TREATMENT OF PATIENTS WITH ADENOVIRUS N64-12885 CONJUNCTIVITIS

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION N64-12886 JPRS-22082

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE

N64-12887

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION N64-12888

BIOLOGICAL ACTION OF IONIZING RADIATION JPRS-20375

N64-12895

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS

N64-12896

REACTION OF IRRADIATED PROTEIN RADICALS WITH RADICAL-REACTION INHIBITORS N64-12897

EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION AND IN SOIL ON ACCUMULATION IN PEA PLANTS & WHEAT N64-13006 JPRS-22656

BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & SULFATES N64-13007 JPRS-22672

ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE N64-13085 JPRS-22647

HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL OCCIPITAL LOBECTOMY - NEUROLOGY N64-13086 JPRS-22690

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING, HINDERING FACTORS, AND DETOXICATING MIXTURE N64-13161 JPRS-22625

RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYONIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO N64-13163 JPRS-22719

VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS JPRS-22666 N64-13229

CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS N64-13230 JPRS-22778

DIAGNOSIS AND TREATMENT OF CONTAMINATION BY

RADIOACTIVE ISOTOPES N64-13320 JPRS-22610

ACOUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF ORGANS & TISSUES OF MAN & ANIMALS N64-13350 JPRS-22840

BIOPHYSICS - DEFINITION & METHODS OF INVESTIGATION N64-13353 JPRS-22830

ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES N64-13376 JPRS-22782

EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM N64-13575 SURFACE WAVE

FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN N64-13582 JPRS-22735

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN N64-13583

CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & N64-13584 AUDITORY ORGANS IN MAN

CELL REACTIONS UNDER EXTREME ENVIRONMENTAL CONDITIONS N64-13692 JPRS-22613

CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION EFFECT ON ACTOMYDSIN N64-13693

INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY IRRADIATION IN LIVER & SPLEEN

CYSTEAMING PROTECTIVE ACTION AGAINST RADIATION N64-13695

RADIORESISTANCE OF THERMOTOLERANT STRAINS OF ESCHERICHIA BACTERIA N64-13696

RELATIVISTIC EFFECT, USE, AND RESPIRATORY PHYSIOLOGY OF MUSCLE RELAXANTS JPRS-22995

N64-14074

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS N64-14133

G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE JPRS-22956 N64-14134

RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING JPRS-22931

RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS JPRS-22963 N64-14143

PHYSIOLOGY OF ATTENTION - DYNAMICS OF LATENT PERIODS OF MOTOR REACTION TO REPEATED STIMULI JPRS-22R92 N64-14147

LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS USING IONIZING RADIATION JPRS-22915 N64-14148

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE N64-14149

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION JPRS-22556 N64-14251

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY

DUE TO X-RAY IRRADIATION OF RATS

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER X-RAY IRRADIATION N64-14253

PHYSIOLOGY, BIOPHYSICS, & BIONICS JPRS-23022

N64-14523

TOXIC CHEMICALS AND LABOR CONDITIONS IN CHEMICAL INDUSTRY JPRS-23045

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA JPRS-23054

INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS JPRS-23060 N64-14530

CYBERNETICS

N64-14536

DERMO-OPTICAL SENSE IN MAN JPRS-23068

N64-14542

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS JPRS-18127

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY, NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY JPRS-23234 N64-14944

TOTAL BODY X-IRRADIATION OF BIRDS OF DIFFERENT JPRS-23169 N64-15153

MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO N64-15167

SPEECH SIGNAL TRANSFORMATION FOR USE IN

COMMUNICATIONS AND CYBERNETICS TECHNOLOGY N64-15169

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION N64-15293

RADIATION SHIELDING OF HUMAN BEINGS FROM SOLAR FLARE, RADIATION BELT, AND GALACTIC COSMIC IONIZING RADIATION DURING SPACE FLIGHTS JPRS-23306 N64-15327

GAS CONSUMPTION AND METABOLISM OF COLD-BLOODED ANIMALS AND MIGRATION & RADIOACTIVITY OF MARINE ANIMALS JPRS-23285 N64-15334

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION JPRS-23287

CLINICAL RADIOLOGY RELATION TO SURGERY AND STUDIES ORGANS AND TISSUES JPRS-23317 N64-15336

DRUGS FOR DISEASES OF CENTRAL NERVOUS SYSTEM N64-15382

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL, UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM N64-15383

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY N64-15384

MENTAL REFLECTION PROCESSES IN LIGHT OF CYBERNETICS - PSYCHOLOGY JPRS-23370 N64-15417

PSYCHOPATHOLOGICAL AND BIOCHEMICAL EXPERIMENTS ON PSYCHOLOGICAL EFFECT PRODUCED BY ANTICHOLINERGICS JPRS-23296 N64-15622

OBSERVATION, DIAGNOSIS, AND TREATMENT OF RADIATION INJURY AND SICKNESS JPRS-22879 N64-15676

INDUSTRIAL SAFETY - CARE AND OBSERVATION OF PERSONS WORKING WITH RADIATION SOURCES, AND ANALYSIS OF MEDICAL OBSERVATIONS

N64-15677

RADIATION MEDICINE - THERAPEUTIC PASTE FOR TREATMENT OF RADIATION LESIONS N64-15678

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING BODY REACTION TO SMALL DOSES OF IONIZING RADIATION BY OBSERVING PHOSPHINE THRESHOLD OF RETINA

ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE MORTALITY RATE FROM RADIATION SICKNESS

N64-15680

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681

BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN EQUATORIAL PACIFIC JPRS-23403 N64-15730

RESTORATIVE PROCESSES IN DUODENAL MUCOSA AFTER RADIATION EXPOSURE JPRS-22276 N64-15828

CANCER CHEMOTHERAPY - BIBLIOGRAPHY JPRS-23440

N64-15829

ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES N64-15914

PROTECTION AGAINST RADIATION HAZARDS IN WORKING WITH POLONIUM JPRS-23499 N64-15992

METHODS USED TO ADMINISTER ELECTRICALLY INDUCED

SLEEP JPRS-23524

N64-16002

RADIATION SICKNESS - USSR JPRS-23566

N64-16296

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY JPRS-23567 N64-16543

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS JPRS-23607 N64-16544

STERILIZED FIBERS FOR CLINICAL MEDICINE JPRS-23609

N64-16545

ENGINEERING PSYCHOLOGY JPRS-23448

N64-16667

ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS
JPRS-23590 N64-1666

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS
JPRS-23678
N64-16694

CONTROL SYSTEMS, CODING, PROGRAMMING, AND
COMPUTERS IN CYBERNETICS
JPRS-23700 N64-16860

PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT
OF RADIATION
.IPRS-23426 N64-16902

ELECTRON PARAMAGNETIC RESONANCE STUDY OF RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS AND PROTEIN TISSUES N64-16903

STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF CELL DIVISION UNDER INFLUENCE OF IONIZING RADIATION N64-16904

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE

N64-16908

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIO-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS JPRS-23735 N64-16950

CYBERNETICS - AUTOMATION, LOGICAL MACHINES, CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND COMPUTERS JPRS-23554 N64-17242

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT JPRS-23749 N64-17244

HIGH NERVOUS ACTIVITY AND CONDITIONED REFLEXES

JPRS-23833 N64-17351

SELECTION OF SPACE CREWS FOR EXTENDED
JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA
JPRS-23853 N64-17536

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY

JPRS-23834 N64-17555

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA JPRS-23787 N64-17805

TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN JPRS-23946 N64-17806

MACROMOLECULAR STRUCTURE OF RIBONUCLEIC ACIDS
JPRS-24068 N64-17973

INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS

JPRS-24086 N64-17976

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATOMIC OUTER ENERGY LEVELS

JPRS-24099 N64-1

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837 N64-1808

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR JPRS-24119 N64-1808

EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE

JPRS-24056 N64-18096

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING COOKING OF BONES, MEAT, POTATOES, AND CABBAGE JPRS-24139 N64-18114

CHEMISTRY OF BRAIN FUNCTION JPRS-24151

N64-1811

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA RADIATION

N64-181:

N64-181:

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BIOLOGY JPRS-23945 N64-18206

MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS
IN PROTEIN MACROMOLECULE

JPRS-23991 N64-18318

NUCLEIC ACIDS - RIBONUCLEIC AND DESOXYRIBONUCLEIC

ACIDS - PHYSICAL & CHEMICAL PROPERTIES AND ROLE

IN PROTEIN SYNTHESIS

JPRS-24070 N64-18328

PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID N64-1832

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS

N64-18330

MECHANISM OF REPRODUCTION / REDUPLICATION/ OF DESOXYRIBONUCLEIC ACID N64-18331

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS
OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO
JPRS-23944
N64-18334

SURGICAL TREATMENT OF BURN INJURIES

JPRS-23933 N64-18398

ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART DISEASE
JPRS-24083 N64-18400

BIOCHEMISTRY - BIOLOGICAL EFFECTS OF VARIOUS

CHEMICALS
JPRS-24050
N64-18410

INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS N64-18411

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF

DESDATKIBUNUCLEIC ACID AND PROTEINS	N64-18412	FLEXIBILITY OF MOLECULES OF NATURAL DNA DETERMINATION USING LIGHT SCATTERING AT ANGLES	
BIOPHYSICS OF AMINO ACIDS & PROTEINS JPRS-24046	N64-18517	CIRCUIT FOR CYBERNETIC CONTROL OF REVERS HYPOTHERMIA PROCESSES	
CORRELATION OF AMINO ACID RADICALS IN P	PROTEIN N64-18518	JPRS-24504	N64-20012
ELECTRON PARAMAGNETIC RESONANCE SPECTRA ACID & PROTEIN UNDER ULTRAVIOLET LIGHT	OF AMINO N64-18519	MEDICAL RESEARCH IN AUDIOLOGY - FUNCTION AUDITORY ANALYZER AND INSTRUMENTS FOR EA JPRS-24519	
BLOOD TRANSFUSION & COAGULATION STUDIES JPRS-24118		LUMINESCENCE CAUSED BY PROTEIN COMPONENT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITA JPRS-24605	
RESTORATION OF PLASMA PROTEIN FRACTIONS BLOOD LOSS & INFUSION WITH POLYGLUCIN		NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607	N64-20233
PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION	N64-18521	EYE FATIGUE STUDY JPRS-24592	N64-20483
HISTOLOGICAL CHEMISTRY OF RETICULOENDOT	N64-18522	RADIATION SICKNESS - PROTECTIVE EFFECT O BACTERIAL ANTIGENS, ACCUMULATION OF IODI	
SYSTEM FOLLOWING INFUSION OF BLOOD EXPA POLYVINYL ALCOHOL		REGENERATION OF SCIATIC NERVE JPRS-24704	N64-20827
AMINO ACID COMPOSITION OF PROTEINS	N64-18524	MEDICAL RADIOLOGY - RADIATION SICKNESS, STUDY, AND CYBERNETICS JPRS-24452	N64-20943
PHYSIOLOGICAL MECHANISMS FOR STUDYING H JPRS-24183	UMAN BODY N64-18966	RADIATION SICKNESS FROM INTERNAL RADIATI DOSE OF RADIUM BROMIDE POWDER	ON - ORAL N64-20944
INJURIES FROM X-IRRADIATION JPRS-24185	N64-18967	TEMPERATURE REACTION TO GAMMA RADIATION	IN MONKEYS N64-20945
IONIZING RADIATION EFFECT ON MICROFLORA	IN MEATS	SERUM PROPHYLAXIS AND THERAPY OF BACTERI	AL
AND FOOD - BOTANY JPRS-24187	N64-18968	INTOXICATIONS IN IRRADIATED ANIMALS	N64-20946
DATA ON ACCUMULATION COEFFICIENTS OF RA ISOTOPES IN MARINE PLANTS AND ANIMALS JPRS-24227	DIOACTIVE N64-18969	CYBERNETICS IN RADIATION THERAPY	N64-20947
PHYSIOLOGICAL REACTIONS TO RADIATION &		CLASSIFICATION OF RADIATION SICKNESS	N64-20948
BIOTELEMETRY JPRS-24301	N64-18972	STRUCTURAL CHANGES IN VISUAL ANALYZER OF	
HUMAN TOLERANCE TO EXTENDED PERIODS OF WEIGHTLESSNESS		AFTER EXTIRPATION OF CERVICAL LOBES JPRS-24800	N64-21043
JPRS-24308	N64-18973	POSSIBLE MECHANISM OF INFORMATION PROCE	SES IN
PURPLE SULFUR, PURPLE NONSULFUR, AND GREPHOTOSYNTHESIZING BACTERIA	EEN SULFUR	DRGANISMS - CYBERNETICS JPRS-24816	N64-21125
JPRS-24319	N64-18975	CAUSE OF DECREASE IN NATURAL RESISTANCE IRRADIATED ANIMALS TO LIVE BRUCELLOSIS	ACCINE
PATHOGENETIC MECHANISMS IN DEVELOPMENT (SICKNESS JPRS-24338	N64-18976	JPRS-24896 ASEPTIC INFLAMMATION OF CORNEA UNDER IN	N64-21282
METACHROMATIC REACTION OF NUCLEIC ACIDS.		BETA RADIATION FROM RADIOACTIVE THALLIUM JPRS-24936	N64-21285
RNA, PRODUCED BY ULTRASONIC RADIATION JPRS-24353	N64-18978	STRESS AND FATIGUE IN HUMAN BEHAVIOR DUR	
AIRFLOW DIRECTION ON WING OF FLYING BIRD	DOBSERVED	ISOLATION FROM EXTERNAL STIMULI JPRS-24961	N64-21288
BY VANE AND SILK THREAD METHOD - AERODYN JPRS-24357	N64-18980	BIONICS - ITS METHODS AND RESULTS	
BIOCHEMISTRY OF X-RAY IRRADIATION EFFECT PROTEIN REACTIONS, DISULFIDE BONDS OF FI AND SYNTHESIS OF AMINO ACIDS	TON BLOOD BRINOGEN,	JPRS-24971 TISSUE MECHANISMS - ADAPTATION OF ANIMALS	N64-21289 S TO
JPRS-24164	N64-19059	REDUCED OXYGEN CONTENT IN ENVIRONMENT JPRS-16105	N64-21480
BIOPHYSICS OF POLYMERS, NUCLEIC ACIDS, A NEURONS JPRS-24261	ND BRAIN N64-19437	GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIP: LIVING ORGANISMS WITH ENVIRONMENTAL FACTO JPRS-24978	S OF DRS N64-21481
OPTICAL PROPERTIES AND MOLECULAR STRUCTU		SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CA	ARDIAC
NUCLEIC ACIDS AND THEIR PROPERTIES OBSERTHROUGH DEOXYRIBONUCLEIC ACID	N64-19439	FUNCTIONS JPRS-25015	N64-21482
MATHEMATICAL METHOD FOR INVESTIGATING IMACTIVITY OF CENTRAL NEURONS OF BRAIN		RADIATION SICKNESS - PHARMACOLOGICAL PROJ JPRS-24817	TECTION N64-21729
PHARMACOLOGICAL PREPARATIONS HAVING PSYC	N64-19440	SIMULTANEOUS STUDY OF EYE BLINKING REFLEX	ES AND
JPRS-24475	N64-19491	FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEMUMANS JPRS-24967	1 IN N64-21783

PRS-24606	N64-21826	BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN F SATELLITE FLIGHTS	NG4-23737
MEDICINE IN USSR - GENETICS UPRS-24398	N64-21850	PROBLEMS IN STUDYING EFFECT OF WEIGHTLESS HUMANS	NESS ON N64-23738
MEDICAL AND BIOLOGICAL RESEARCH IN USSR JPRS-24638	N64-21851	FORMATION OF ARTIFICIAL ENVIRONMENT IN SECABIN	ACESHIP N64-23739
SPACE BIOLOGY AND MEDICINE JPRS-24943	N64-21866	ENGINEERING PSYCHOLOGY OF SPACE FLIGHT	N64-23740
SPACE BIOLOGY AND MEDICINE - FIRST EXPER	IMENTS N64-21867	PHYSIOLOGICAL INTERACTION OF SENSE ORGANS	S UNDER N64-23741
SPACE BIOLOGY AND MEDICINE	N64-21868	WASTE UTILIZATION ON LONG TERM SPACE FLIC	SHT - LIFE
SPACE BIOLOGY AND MEDICINE - ASTRONAUT T	RAINING N64-21869	SUPPORT SYSTEM N64-23	
HUMAN ADAPTATION TO CHANGING ENVIRONMENT DURING SPACE FLIGHT	AL FACTORS	REGENERATION OF WATER IN SPACESHIP CABIN	N64-23743
JPRS-20673	N64-22258	BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES	D N64-23744
HEALTH PROTECTION DEVELOPMENTS IN USSR JPRS-24840	N64-22728	ENVIRONMENT OF SPACESHIP CABIN OR ORBITA	L STATION N64-23745
BIOCHEMICAL COMPOUND TO RAISE THERMAL RE OF ORGANISMS	SISTANCE N64-22729	BIOLOGICAL RESEARCH IN SPACE FLIGHT	N64-23746
VIBROGRAPH MEASUREMENT OF OVERALL VIBRAT	ION N64-22730	METABOLIC INDICES IN ASTRONAUTS	N64-23747
RADIATION PROTECTION OF PERSONS WORKING GAMMA RADIATION THERAPEUTIC UNITS	NEAR	HUMAN REACTION TO WEIGHTLESSNESS	NO. 23711
	N64-22731		N64-23748
PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT	N64-22732	EXCITABILITY OF HUMAN VESTIBULAR ANALYZE CONDITIONS OF SHORT TERM WEIGHTLESSNESS	R UNDER N64-23749
LIGHT AND COLOR IN NATURE, STRUCTURE OF AND HYGIENE OF COLOR VISION JPRS-25184	HUMAN EYE,	MINIMUM ARTIFICIAL GRAVITY NEEDED TO PRE	VENT
	N64-22742	EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR	APPARATUS N64-23750
MEDICAL RESEARCH ON HUMAN BODY JPRS-25241	N64-22744	MICROBIOLOGICAL AND CYTOLOGICAL STUDIES	IN N64-23751
BODY TEMPERATURE REGULATORY SYSTEM OF WH BEFORE AND AFTER COLD ADAPTATION	HITE RATS	PHYSICOCHEMICAL WASTE UTILIZATION COMPON	ENT FOR
	N64-22879	LONG-TERM SPACE FLIGHT LIFE SUPPORT SYST	
MEDICAL RESEARCH - NATURAL POLYMERS, HER SURGERY, HYGIENE, ANTIBIOTICS, NUTRITION PHARMACOLOGY		CHARACTERISTICS OF ARTIFICIAL SUBSTRATES IN CLOSED ECOLOGICAL SYSTEMS	FOR USE N64-2375
JPRS-25208	N64-23063	TOXIC GASEOUS SUBSTANCES DISCHARGED BY C	HLORELLA
STRESS EFFECT ON RADIOSENSITIVITY OF RATEFFECTIVENESS OF RADIOPROTECTIVE ACTION	TS AND OF	TOXIC GASEOUS PRODUCTS EXCRETED BY HUMAN	N64-2375
MERCAMINE JPRS-25130	N64-23255	IN AIRTIGHT CHAMBER	N64-2375
INDUSTRIAL SAFETY IN PRODUCTION OF METAL	LLIC	ARTIFICIAL HIBERNATION AND SPACE BIOLOGY	N64-2375
THALLIUM AND ITS SALTS JPRS-25206	N64-23257	PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPA	
TOXICOLOGY OF VANADIUM TRIOXIDE DUST, GI TETRACHLORIDE, AND ALIPHATIC AMINES JPRS-25116	N64-23366	ENVIRONMENT MOTOR REACTION TIME IN HUMANS UNDER ISOL	ATION
RELATIONSHIP OF TWO-PHASE TOXICITY AND		CONDITIONS	N64-2375
THERMODYNAMIC ACTIVITY IN TOXICOLOGY	N64-23367	MAINTENANCE OF HABITS OF INFORMATION TRA UNDER LONG TERM ISOLATION CONDITIONS	NSMISSION N64-2375
EFFECT OF VANADIUM TRIOXIDE DUST ON ORG	ANISM - N64-23368	EFFECT OF STATOKINETIC STIMULI ON HUMAN FUNCTIONS	BODY N64-2376
TOXIC PROPERTIES OF GERMANIUM TETRACHLO	RIDE N64-23369	EFFECTS OF VIBRATION AND IONIZING RADIAT	TION ON
TOXICOLOGY OF ALIPHATIC AMINES	N64-23370	VESTIBULAR AND MOTOR-DEFENSE REFLEXES	N64-2376
PROBLEMS OF SPACE BIOLOGY	N// 2272/	AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER	
JPRS-25287	N64-23734	3/1/1024/13/1	
		LANDING IMPACT STRESS ON ANIMALS IMMERSI	N64-2376 Ed in Wate

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS

N64-23768

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION

N64-23769

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

N64-23773

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE N64-23775

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA N64-23776

NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA PYRENOIDOSA N64-23777

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIOLOGICAL CULTIVATORS WITH IRREGULAR SHAPES N64-23778

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS
N64-2377

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782

STABILITY OF HETEROGENEOUS DEOXYRIBONUCLEIC ACID TO IONIZING RADIATION JPRS-25282 N64-24487

BLOOD SERUM ENZYME ACTIVATION AND SPECTRUM ANALYSIS OF CATECHOLAMINES JPRS-24838 N64-24561

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA, ASPHYXIA, AND BURN SHOCK STIMULI

N64-24562

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES

N64-24563

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
JPRS-25277 N64-24630

MATRIX ANALYSIS OF TRANSFER STATE OF NONSYNCHRONOUS FINITE AUTOMATONS

N64-24690

SELF ADJUSTING SYSTEM WITH PATTERN

N64-24700

STATISTICAL SOLUTION OF NONLINEAR SYSTEM

N64-24705

AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION N64-24706

OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH FORECASTING N64-24707

STABILITY AND CONTROL OF SYSTEM WITH LINEAR REGULATOR N64-24708

SPACE FLIGHT OF TWO U.S.S.R. ASTRONAUTS
JPRS-25272 N64-25163

ASTRONAUT TRAINING FOR SPACE FLIGHT

N64-25164

N64-26055

SPACE FLIGHT CONDITIONS, ENVIRONMENT, AND ASSIGNMENTS OF ASTRONAUTS N64-25165

TELEMETRIC BIOMETRY OF ASTRONAUTS DURING SPACE FLIGHT N64-25166

PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES OF TWO U.S.S.R. ASTRONAUTS DURING ORBITAL SPACE FLIGHT N64-25167

POSTFLIGHT MEDICAL EXAMINATIONS OF U.S.S.R. ASTRONAUTS N64-25168

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLOOD
JPRS-25364 N64-25196

TRACE ELEMENTS IN RADIATION DERMATITES
JPRS-25502 N64-25198

JPRS-25251

CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT

STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE JPRS-25252 N64-26056

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS
JPRS-25651 N64-26086

BIONICS - SELF-ADAPTIVE SYSTEMS, COMMUNICATION, AND CONTROL IN ANIMALS & ELECTRONIC MACHINES JPRS-25494 N64-26257

EFFECT OF PRIOR MUSCLE EFFORT ON SYMMETRIC
MUSCULAR STRENGTH AND ENDURANCE
JPRS-25593 N64-26459

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION JPRS-25761 N64-26765

THRESHOLD OF ACCELERATION SENSATION IN MAN
JPRS-25929 N64-26880

ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS JPRS-25703 N64-27055

CYBERNETICS AND DEVELOPMENT OF COMPUTERS JPRS-25714

N64-27057

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS JPRS-25765 N64-27059

NUCLEIC ACIDS AND VISUAL PERCEPTION STUDIES JPRS-25824 N64-27062

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS JPRS-25861 N64-27066

INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND ELECTROCARDIOGRAM
JPRS-25897
N64-2

ANTIRADIATION EFFECT OF PROPYL AND SODIUM GALLATES UNDER IRRADIATION OF 1000 ROENTGENS

JPRS-25274 N64-27264

NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT JPRS-25599 N64-27318

EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY
IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630 N64-27319

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896 N64-27323

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY
FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928 N64-27324

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL SYSTEM OF NERVES AT EXTREMITIES

JPRS-25275 N64-27501

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS JPRS-25650 N64-27503

PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT CONDITIONS COSMIC RADIATION, WEIGHTLESSNESS, & DXYGEN SUPPLY
JPRS-25844
N64-27630

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION
EFFECTS DURING SPACE FLIGHTS N64-27631

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS N64-27633

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-2763

DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS SYSTEM OF WHITE RATS JPRS-26042 N64-27636

EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION
JPRS-25986 N64-27668

INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY JPRS-26012 N64-27669

MICROWAVE TREATMENT OF DISEASES
JPRS-26038

N64-27670

HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM AEROSOL JPRS-26069 N64-27671

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION JPRS-25347 N64-28007

HEALTH, SPACE SCIENCE AND TECHNOLOGY, BIOLOGY, AND PHYSIOLOGY JPRS-25506 N64-28009

BIOPHYSICS RESEARCH IN USSR

JPRS-25652 N64-28034
TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID

COMPONENTS AND ROLE IN MUTAGENESIS
N64-28035

SODIUM - NATURE OF NEUTRON DISCHARGE

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BIOLOGICAL DXIDATION N64-28036

BIOLOGICAL DXIDATION N64-28036
MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND

N64-28038

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS N64-28039 PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE TISSUES N64-28040

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC
CONTROL
JPRS-26201 N64-28050

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062

ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPOXIA JPRS-25796 N64-28076

ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN MICROWAVE RANGE JPRS-26191 N64-28092

BIOPHYSICS - THERMODYNAMICS OF PHOTOSYNTHESIS, AND TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS JPRS-25733 N64-28309

THERMODYNAMICS OF PHOTOSYNTHESIS

N64-28310

TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS

N64-28311

VISUAL ADAPTATION IN EYE OF MAN - ANTIBIOTIC
EFFECT ON BLOOD CONTENT AND ORGANS OF IRRADIATED
RATS - ELECTRIC RESISTANCE IN SECTION OF
PULMONARY TISSUE IN MAN
JPRS-25464 N64-28425

HYGIENE AND SANITATION IN USSR JPRS-26305

N64-28430

UNDERWATER ACOUSTICS, VECTORCARDIOGRAMS, AND NORMAL HEART SOUNDS
JPRS-26103 N64-28431

MEDICINE IN UKRAINIAN S.S.R., ACCELERATION AND AEROSPACE MEDICINE, AND CHEMOTHERAPY JPRS-26116 N64-28432

MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT
OF RADIATION ACCIDENTS
JPRS-26021
N64-28439

BIOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL STUDIES OF CENTRAL NERVOUS SYSTEM - CONDITIONED REFLEX JPRS-26060 N64-28446

DERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND THERAPY
JPRS-16055 N64-28631

SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT
JPRS-26231 N64-28859

SELF-PURIFICATION OF CESIUM 137 FROM WATER AND CHEMICAL COMPOSITION OF ALGAE
JPRS-26056 N64-29032

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033

CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES N64-29034

CONTROL SYSTEMS IN ORGANIC NATURE - UNDERSTANDING LIFE PROCESSES N64-29742

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS, AND TREATMENT OF SKIN LESIONS

JPRS-26542 N64-29759

LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF TRAINING PROCESS N64-30219

APPLICATION OF ELECTRONIC EQUIPMENT TO AEROSPACE MEDICINE AND BIOLOGY - RADIOTELEMETRY

JPRS-24682

N64-30234

APPLICATION OF RADIOTELEMETRY TO AEROSPACE MEDICINE N64-30235

RADIOTELEMETRY APPLIED TO SPORT & WORK PHYSIOLOGY N64-30236

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237

ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY -DIAGNOSIS OF PATHOLOGICAL PROCESSES

N64-30238

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS

NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS N64-30240

COMPILATION OF ARTICLES ON MEDICINE - RADIATION SICKNESS, URANIUM POISONING, PROTEIN STABILITY IN BLOOD, RADIOSENSITIVITY, AND RADIATION THERAPY JPRS-26216 N64-30241

INFLUENCE OF MEXAMINE ON REACTION OF PATIENT SUBJECTED TO RADIATION THERAPY N64 N64-30242

CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING RADIATION SICKNESS N64-30243

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED N64-30244

UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM POISONING N64-30245

REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF **IDNIZING RADIATION** N64-30246

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN CHRONIC RADIATION SICKNESS N64-3 N64-30247

PSYCHOLOGICAL PROBLEMS - SENSORIMOTOR PERFORMANCE IN AUTOMATIC CONTROL, VISUAL SIGNALING PARAMETRIC INFLUENCE ON MOTOR REACTION, ALGORITHMIC APPROACH TO LEARNING, AND EYE MOVEMENT CONTROL JPRS-26014

LABORATORY APPARATUS FOR VISUAL SIGNALLING INVESTIGATION OF MOTOR REACTION EFFECTIVENESS N64-30323

ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING PROCESSES AND PROBLEM SOLVING N64-30324

PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL N64-30325

ELECTRONIC EQUIPMENT FOR MEDICAL RESEARCH AND TREATMENT JPRS-25587 N64-30391

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF

HEART N64-30392

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE

PROPAGATION VELOCITIES IN ARTERIES N64-30393

STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY

OF VOCAL CORDS N64-30394 DETERMINATION OF KINETICS OF DIFFUSION AND DSMOSIS

USING RADIDACTIVE ISOTOPES N64-30395

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES N64-30396

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION, AND PATHOGENESIS OF RADIATION TUMORS JPRS-26532 N64-30613 ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES JPRS-26500 N64-30742

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY JPRS-26558 N64-30777

CHROMIUM COMPOUND POISONING JPRS-26768

N64-31267

N64-31345

MECHANISMS OF CHEMICAL PROTECTION AGAINST RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY JPRS-26842 N64-31313

PHARMACOLOGICAL CHARACTERISTICS OF SEVERAL PREPARATIONS - ANIMAL STUDY JPRS-26645 N64-31341

ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE AND PHENAMINE N64-31342

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN RABBITS N64-31343

EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT PITUITARY AND ADRENAL GLANDS N64-3 N64-31344

EFFECT OF STRONG STRESS AND HIGH DOSES OF ADRENDCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL REORGANIZATION OF RAT ADRENAL GLAND

PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYL-N64-31346

EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS

DISTRIBUTION AND EXCRETION OF BETA-MERCAPTO-PROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF MICE

TRAINING OF SOVIET ASTRONAUTS - SIMULATED FLIGHT **ENVIRONMENT** JPRS-26762 N64-31440

PHYSIOLOGY OF NERVOUS SYSTEMS OF HUMANS & ANIMALS JPRS-26427 N64-31457

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION N64-31458

HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459

EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA PATIENTS N64-31460

PHYSIOLOGICAL SIGNIFICANCE OF HUMAN VOICE AS OBSERVED IN CHILDREN N64-31461

MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG N64-31462

PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION IN VISUAL ANALYZER SYSTEM OF DOG

N64-31463 INTERACTION OF EXCITATION & INHIBITION PROCESSES

IN ACOUSTIC ANALYZER OF DOG IN RESPONSE TO PURE N64-31464

MECHANISM OF NERVOUS RESPONSES IN LIZARDS N64-31465

PHYSIOLOGICAL STUDIES - COMPUTER PROCESSING OF DATA, BIOINSTRUMENTATION, EFFECTS OF HYPOXIA, AND ELECTROPHYSIOLOGY JPRS-26444

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537 COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE AND HYPOXIA CHAMBER CONDITIONS N64-31539

EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE N64-31540 ACTIVITY IN HUMAN BODY

VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE OF NARCOSIS - ELECTROPHYSIOLOGY

N64-31541

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY N64-31542

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL N64-31543

ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES N64-31544

ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS

ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN ELECTROPHYSIOLOGY OF NERVOUS SYSTEM

N64-31546

RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE JPRS-26921

TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR SYSTEM OF MAN NASA-TT-F-8567 N64-31557

INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE N64-31840 JPRS-26841

HUMAN BIOCHEMICAL GENETICS JPRS-26577

N64-32163

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON BIOLOGICAL AND MEDICAL RESEARCH RELATED TO CHEMISTRY N64-32164

CHEMICAL COMPOSITION OF UREA-EXTRACTABLE COMPONENTS OF PLAGUE VIRUS EV JPRS-26858 N64-32165

PROTEIN EXCHANGE IN NERVOUS SYSTEM

N64-32747 JPRS-26846

CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS N64-32748 JPRS-26911

GAMMA GLOBULIN AND IONIZING RADIATION EFFECTS ON ANTIBODY PRODUCTION IN IRRADIATED & NONIRRADIATED TISSUE

N64-32750 JPRS-26956

BIOLOGY AND MEDICAL STUDIES - SKIN PERCEPTION, NERVOUS SYSTEM, AND RADIATION SICKNESS JPRS-26725 N64-32776

MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION OF OSMOTIC PRESSURE OSCILLATIONS

N64-32777

SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND COLOR SENSITIVITY OF SKIN OF FINGERS N64-32778

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF N64-32779 LIGHT IN MAN

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS N64-32780

PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE RADIATION SICKNESS OF WHITE RATS

N64-32781

N64-33675

N64-33875

SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE FLIGHTS JPRS-26994 N64-32796

EFFECTS OF SOUND WAVES AND NUCLEIC ELEMENTS ON CELLS JPRS-26712 N64-32954

STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955

RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM -N64-32956 BIOLOGICAL CELL

INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS -N64-32957 RIBONUCLEIC ACID

INFORMATION THEORY AND HUMAN THINKING, INFORMATION PERCEPTION, & ELECTROENCEPHALOGRAM ANALYSIS USING PROBABILITY THEORY JPRS-26839 N64-33010

BERYLLIUM AND RELATION TO INDUSTRIAL SAFETY JPRS-27031 N64-33058

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY JPRS-27063 N64-33344

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE AND PATHOGENICITY OF MICROORGANISMS JPRS-27146 N64-33345

MODELING IN TEACHING FOREIGN LANGUAGES AND PROBLEMS OF PROGRAMMED INSTRUCTION USING **PSYCHOLOGY** JPRS-27166 N64-33485

PHYSIOLOGICAL PROBLEMS OF ANIMALS - EFFECTS OF AGING, ULTRASONIC MEDICINE, MOBILITY OF NERVE PROCESSES, AND WEIGHTLESSNESS IN WATER ON HUMAN BODY JPRS-26990

IMMUNOLOGY AND THERAPY FOR IONIZING RADIATION N64-33577 JPRS-27203

CHEMOTHERAPY FOR RADIATION SICKNESS JPRS-27220 N64-33578

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES

MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE N64-33761 JPRS-27192

DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION FROM HEALTHY AND LEAD-POISONED ANIMALS JPRS-26888 N64-33854

TRAINING OF SCIENTISTS IN USSR JPRS-27116

RADIATION EFFECTS ON NUCLEIC ACIDS

JPRS-27237

N64-33855

JPRS-27239 GENERAL SCIENCE - METABOLISM, MICROBIOLOGY, AND

CHEMISTRY N64-33957 JPRS-26991

REPLACEMENT OF MOTOR RESPONSES WITH VERBAL RESPONSES IN HUMAN PERFORMANCE JPRS-27172 N64-33960

IMMUNOLOGY STUDIES - PREVENTION OF RADIATION SICKNESS, ANTHRAX VACCINE, LENGTH OF IMMUNITY TO SMALLPOX, AND EFFECTIVENESS OF PROPHYLACTIC
VACCINATION
JPRS-27281

MECHANISMS OF SPATIAL ORIENTATION IN BATS
JPRS-27285

N64-33974

NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION
THERAPY
JPRS-27289

KAISER FOUNDATION RESEARCH INST., RICHMOND,

CALIF.
PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS.
AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394
N64-32295

KANSAS STATE U., MANHATTAN.
HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE
SYSTEMS
AD-600319
N64-27094

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL THEORY TR-17 N64-27095

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY
PRESENTED RESULTS
TR-18
N64-27096

RELATION OF HUMAN PERFORMANCE IN AUDITORY
VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19
N64-27097

HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF MASS ON ROD WITH EXTENDED ARM AND HAND TR-20 N64-27098

KANSAS U., LAWRENCE.
ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL
FUEL CELL REACTIONS
N64-19311

MUTATIONAL SYMERGISM BETWEEN ULTRAVIOLET RADIATION AND PURINES IN ESCHERICHIA COLI N64-19544

KENTUCKY U., LEXINGTON.
PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO
HEAT AND COLD - INSTRUMENTATION
AD-603074
N64-30859

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW
AAL-TDR-63-35
N64-33524

L

LANGLEY PORTER NEUROPSYCHIATRIC INST., SAN FRANCISCO, CALIF. PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN ENCEPHALOPATHY N64-14597

LIBRARY OF CONGRESS, WASHINGTON, D.C.
ABSTRACTS OF CURRENT MEDICAL RESEARCH

N64-10621

SPACE BIOLOGY - ABSTRACTS OF SOVIET LITERATURE AID-P-63-48 N64-12634

ABSTRACTS OF CURRENT LITERATURE IN AEROSPACE MEDICINE N64-12899

BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR EXTRATERRESTRIAL HABITATION
AMRL-TDR-63-121
N64-16095

AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY N64-20020

LIFE SUPPORT SYSTEMS - ANNOTATED BIBLIOGRAPHY AID-P-64-33 N64-24100

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE
N64-26357

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-52
N64-32355

ANNOTATED BIBLIOGRAPHY ON LIFE SUPPORT SYSTEMS SPACE MEDICINE AND BIOLOGY, AND PHYSIOLOGY
ATD-P-64-53
N64-32356

LINDE CO., TONAWANDA, N.Y.
PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE
GASES ON CELLULAR SYSTEMS
AD-600641
N64-25925

LING-TEMCO-VOUGHT, INC., DALLAS, TEX.
HUMAN ENGINEERING CRITERIA FOR USE IN SPACE
SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND
REPAIR OF ADVANCED SPACE SYSTEMS
NASA-CR-58575
N64-29557

LISBON U. /PORTUGAL/.
AUTORADIOGRAPHIC STUDY OF INCORPORATION OF
TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID
MOLECULE
LFEN-NI.11 /ALPHA/
N64-29885

LITTLE /ARTHUR D./ INC., CAMBRIDGE, MASS.
CREDIBLE CATASTROPHIC EVENTUALITIES FROM
PROPELLANT TRANSPORTATION, ROCKETS, AIRCRAFT AND
WEATHER CONTROL
NASA-CR-58145
N64-30504

LOCKHEED MISSILES AND SPACE CO., PALO ALTO,
CALIF.
SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND
MANNED SPACECRAFT
AD-440942
N64-2460

CARBON DIOXIDE REMOVAL, CONVERSION, AND OXYGEN REGENERATION N64-24627

LOCKHEED MISSILES AND SPACE CO., SUNNYVALE,
CALIF.
BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE
CONTROL, WATER RECOVERY, SURVIVAL, & RELATED
SUBJECTS - ANNOTATED BIBLIOGRAPHY
SB-63-20
N64-13305

BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN, AND PLANTS SB-62-60 N64-20517

BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN SRB-63-2 N64-22372

IONIZING RADIATION EFFECTS ON PERFORMANCE
CAPABILITIES OF ASTRONAUTS - ANNOTATED
BIBLIOGRAPHY
SRB-63-13
N64-23365

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES N64-24609

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL SB-62-60, VOL. II N64-25511

LOCKHEED MISSILES AND SPACE CO., VAN NUYS, CALIF.

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES SAM-TDR-63-73 N64-25040

LOCKHEED-CALIFORNIA CO., BURBANK.
EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS
SYSTEM IN VIVO AND AT CELLULAR LEVEL
NASA-CR-58974
N64-33095

LOCKHEED-GEORGIA CO., MARIETTA.
HUMAN GROUP PERFORMANCE DURING CONFINEMENT
ER-6024 N64-15747

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63 N64-31827

LONDON U. /GT. BRIT./ PHOSPHOPROTEIN METABOLISM IN CEREBRAL CORTEX FUNCTIONING

LAMS-3034

N64-15955

NA4-16573

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS -PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE ASR-3 N64-3057

LOS ALAMOS SCIENTIFIC LAB., N. MEX.
HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY
ELECTRON SCATTERING FROM TRITIUM GAS
LAMS-2959
N64-12113

RADIATION HAZARD TO PERSONNEL DUE TO TRITIUM DIFFUSION IN GLOVE BOX OPERATIONS IMS-2962 N64-13165

BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR RADIOBIOLOGY IN MAMMALS

NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL LAMS-3027 N64-17241

BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION LAMS-2946 N64-18094

LOVELACE FOUNDATION FOR MEDICAL EDUCATION AND RESEARCH, ALBUQUERQUE, N. MEX.
PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS
1F-11 N64-11206

INOCULATION OF DOG LIVER WITH VIRUS FOR SUSCEPTIBILITY TEST

LF-10 N64-13344

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM LF-13 N64-14

FIRE AND FLASH HAZARDS FROM METEOROID PENETRATION
OF SPACE CABIN N64-20749

EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST DASA-1483 N64-21078

SPACE CABIN ATMOSPHERES - PHYSICAL AND PHYSIOLOGICAL VARIABLES N64-30345

SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, OXYGEN TOXICITY, AND DRUG THERAPY
NSA-SP-47
N64-31219

LUDWIG-MAXIMILIANS-UNIVERSITAT, MUNICH /W. GERMANY/.

GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH INSUFFICIENT DXYGEN CONSUMPTION IN LIVER - HYPOXIA N64-14604

LUND U. /SWEDEN/.
REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL
CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO
ANOXEMIA
N64-14587

M

MAGNA CORP., ANAHEIM, CALIF.
BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF
HYDROGEN AND FORMIC ACID
OPR-5
N64-1

HYDROGEN-OXIDIZING BACTERIA FOR USE WITH ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE AMRL-TDR-64-35 N64-27432

MARQUARDT CORP., VAN NUYS, CALIF.

BACTERIAL CELL DIVISION IN RELATION TO OXIDATIONREDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL
LIFE DETECTION

NASA-CR-53734

N64-19577

SIMULATION OF CONTROLLED TETHERLINE OPERATIONS IN SPACE NP-1266 N64-23650

MARTIN CO., BALTIMORE, MD.
PHOTOSYNTHETIC ELECTRON TRANSPORT

N64-13199

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS N64-13370

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT

PASSENGERS
AIAA PAPER-64-220 N64-24972

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM
PERFORMANCE - BIBLIOGRAPHY
NASA-CR-83 N64-2

TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION PROBLEMS N64-25355

GROWTH CHARACTERISTICS OF AUTOTROPHIC BACTERIA FOR BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN NASA-CR-58129 N64-27817

PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION,
DXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE
SPECTROSCOPY
NASA-CR-59204
N64-33211

MARTIN CO., DENVER, COLO.
PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED
ECOLOGICAL SYSTEM N64-13715

RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
NASA-CR-53344 N64-17790

HAZARD TO PERSONNEL WEARING TORN PROTECTIVE
CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET
PROPELLANTS
AD-431540
N64-21673

MARYLAND U., BALTIMORE.
CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES
DURING EMBRYONATION
N64-32225

MARYLAND U., COLLEGE PARK.
ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE,
PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS
N64-11258

LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED ENVIRONMENT NASA-CR-52913 N64-11825

ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE IN VARIOUS DEVELOPMENTAL STAGES N64-12001

TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN

PHOTOSYNTHETIC CELLS

N64-15307

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS
N64-19495

SENSORY STIMULATION & CONDITIONED RESPONSE N64-22418

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL DIVISION N64-24008

MASSACHUSETTS INST. OF TECH., CAMBRIDGE.
EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM
TO EXTREME TEMPERATURES
NASA-CR-55288 N64-15181

ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

N64-17885

BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS MIT-TR-416 N64-18062

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-

ESD-TDR-64-174 N64-18588

COLOR VISION THEORY

N64-18829

PROCESS OF CORRECTLY SIGNALLING LOCATION OF STIMULUS TO CENTRAL NERVOUS SYSTEM

N64-18833

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION N64-1 N64-18839

NUNLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879 N64-19955

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-50333 N64-22752

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR

MEDICAL THERAPY FACILITY BEAM MITNE-47 N64-25472

COMPARISON OF GRAMMAR OF CHILDREN WITH FUNCTIONALLY DEVIANT AND NORMAL SPEECH

N64-25608

RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUDITORY STIMULI IN CATS N64-27968

PASSIVE ION FLUX THROUGH AXON MEMBRANES

N64-29538

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

TAXONOMY VERSUS MENTALISM IN LINGUISTICS AND THEORY OF LANGUAGE N64-32947

EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL TRACT OF CAT N64-33264

MASSACHUSETTS U., AMHERST. HUMAN INFORMATION PROCESSING UNDER TASK STRESS ESD-TDR-63-657 N64-16088

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION NAVTRADEVCEN-1303-3

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT TERM RECALL OF BRIEFLY EXPOSED DISPLAYS NAVTRADEVCEN-1303-1 N64-29814

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN NAVTRADEVCEN-1303-2

MATRIX CORP., ARLINGTON, VA.
ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING PERFORMANCE AD-602861 N64-29762

MAX-PLANCK-INSTITUT FUR HIRNPATHOLOGIE, MUNICH

/W. GERMANY/. ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592

LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601

MAX-PLANCK-INSTITUT FUR IMMUNBIOLOGIE, FREIBURG /W. GERMANY/.
SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS

AD-430401 N64-16098

MAYO CLINIC, ROCHESTER, MINN. ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL OXYGEN CONCENTRATION AMRL-TDR-63-104 N64-16806

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY

AMRL-TDR-63-105 N64-16807

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TDR-63-106

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS AMRL-TDR-63-107 N64-16809

MELPAR, INC., FALLS CHURCH, VA.
SPECTROPHOTOMETER ATTACHMENT FOR DETECTION OF EXTRATERRESTRIAL LIFE NASA-CR-52073

ULTRAVIOLET RADIATION ABSORPTION BY PEPTIDES FOR DETECTION OF EXTRATERRESTRIAL LIFE ON MARS NASA-CR-55655

DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET SPECTROPHOTOMETRY NASA-CR-50815

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE

N64-31026

N64-15726

MIAMI U., CORAL GABLES, FLA.
HUMAN ELECTRORETINOGRAPHY AS GAUGE OF VISUAL PERCEPTION AD-602526

FRESH-WATER, BRACKISH-WATER, AND MARINE ECOLOGY OF FLORIDA EVERGLADES ML-63609

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE APR-2 N64-32379

MICHIGAN U., ANN ARBOR.
IMPLICATIONS OF SHORT-TERM MEMORY FOR GENERAL
THEORY OF MEMORY REPT.-2900-410-R

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119
N64-1681 N64-16810

MILAN U. /ITALY/.
MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS RADC-TDR-63-528

MINNEAPOLIS-HONEYWELL REGULATOR CO., DUARTE, CALIF.

PHOTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST N64-10529

MINNEAPOLIS-HONEYWELL REGULATOR CO., MINN.
EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES
ON RETINAL SENSITIVITY
REPT.-1549-TDR-1 N64-28: N64-28288

MINNESOTA U., MINNEAPOLIS.

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE SAM-TDR-63-69 N64-11773

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE SAM-TDR-63-99 N64-15745 THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION N64-17312

MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN MEDICAL ELECTRONICS, AND IN BIOENGINEERING N64-18827

ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM N64-19152

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS N64-21597 SAM-TDR-64-15

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE N64-21803 SAM-TDR-64-5

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART SAM-TDR-64-23

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH N64-32350

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION N64-33452

MISSISSIPPI STATE U., STATE COLLEGE.
ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -BIOASSAY METHODOLOGY N64-14810

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM N64-29722

ELECTROCHEMICAL DEGRADATION OF HUMAN WASTES -BIDASSAY WITH CHLORELLA AD-605724 N64-30569

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE

N64-31315

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019

MONTANA STATE COLL., BOZEMAN.

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS N64-28916 ERL-8-0009-622

NAPLES U. /ITALY/.
PURIFICATION AND IDENTIFICATION OF FACTOR FROM
CALF SPLEEN WHICH PREVENTS RADIATION INJURIES AD-432125

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL, WASHINGTON, D.C.
PROBLEMS OF NUTRITION AND FEEDING FOR MANNED SPACE N64-10264 **FLIGHT**

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE N64-10265 **FLIGHT**

POTENTIAL CONTRIBUTIONS TO BIOLOGY FROM EXPERIMENTAL STUDIES IN SPACE - RADIATION EFFECT N64-10266

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT N64-13615 AD-425085

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS N64-16674

GASEOUS ENVIRONMENTAL TESTING FOR MANNED N64-22073

EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE N64-24613 AND SPACECRAFT EQUIPMENT

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED N64-24617 **ECOLOGICAL SYSTEMS**

VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION -PERSONNEL SELECTION N64-29650 AD-442707

ZOOLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECOLOGY NASA-CB-59306

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-33513

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION NASA-CR-59305 N64-33514

ZOOLOGY CONFERENCE - NORTH AMERICAN FAUNA, INSECT PROTOZOA, CHROMOSOME STRUCTURE, AND ECOLOGY NASA-CR-59304

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES N64-33687 NASA-CR-59303

PROTECTION OF VANISHING SPECIES - INTERNATIONAL CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN NASA-CR-59027 N64-33924

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
AMES RESEARCH CENTER, MOFFETT FIELD, CALIF.
THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY **EXTRACT** NASA-RP-55 N64-10293

PILOTED SIMULATOR STUDIES OF LOW-SPEED LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC N64-10909 TRANSPORT AIRCRAFT

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED N64-10989

FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION OF ADENINE AND RIBOSE N64-11375

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING N64-11548 NASA-TN-D-1973

BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK N64-11549 NASA-TN-D-1974

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS NASA-RP-94 N64-13168

EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT N64-13204

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-14519

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS NASA-TN-D-2251 N N64-17993

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH NASA-SP-5007 N64-19015

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-Labeled thymidine on cell growth NASA-RP-196 N64-22071

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE

NASA-TN-D-2177

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING

TURNING AND NODDING MOTION OF HEAD WHILE

N64-11564

N64-11667

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND

WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY

N64-22754 NASA-TH-X-54008 PERFORMING SIMPLE TASKS AIAA PAPER-64-218 N64-23608 BIOLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS NASA-TN-X-54021 N64-2277 N64-22771 MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN NASA-RP-206 MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID NASA-TM-X-51514 N64-22772 TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL N64-26544 NASA-TN-D-2394 GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS NASA-TM-X-50806 N64-22773 CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT N64-29206 N64-22777 NASA-TM-X-50873 OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK NASA-TN-D-2195 N64-30094 LIFE SUPPORT IN SPACE ENVIRONMENT NASA-TM-X-51744 N64-22784 ABSORPTION BED, CATALYTIC BURNER, AND FILTERING SYSTEM FOR TRACE CONTAMINANT REMOVAL ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS N64-24626 NASA-TN-D-2162 N64-33080 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. LEWIS RESEARCH CENTER, CLEVELAND, OHIO. PILOT REACTION TO HIGH SPEED ROTATION EFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE NASA-TN-D-2067 N64-24815 NASA-RP-133 N64-15841 CHEMICAL EVOLUTION AND ORIGIN OF LIFE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
MANNED SPACECRAFT CENTER, HOUSTON, TEX.
STRESSES ON FLIGHT CREW IN SPACE FLIGHT NASA-RP-233 N64-25970 HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES N64-11649 NASA-RP-236 N64-26710 OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252 N64-26711 NASA-SP-39 DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-1 N64-13716 EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING DXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE NASA RP-245 N64-27352 MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY N64-15856 NASA-TN-D-2467 N64-27946 PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI AIAA PAPER-64-222 N64-23609 NASA-RP-296 N64-28231 RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
FLIGHT RESEARCH CENTER, EDWARDS, CALIF.
PILOT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT N64-28320 NASA-TN-D-1862 SPACE RADIATION PROTECTION IN SPACECRAFT TO HIGH ALTITUDE NASA-TN-D-2289 N64-30719 N64-19002 APOLLO PORTABLE LIFE SUPPORT SYSTEM PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY N64-30725 AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FLIGHTS SPACECRAFT ENVIRONMENTAL SYSTEMS NASA-TM-X-56005 N64-30729 N64-22440 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. GODDARD SPACE FLIGHT CENTER, GREENBELT, MD. BETA LYRAE - THEORY OF PHOTOMETRIC AND NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. MANNED SPACECRAFT CENTER, LANGLEY STATION, VA.
MEDICAL ASPECTS OF MANNED SPACE FLIGHT SPECTROGRAPHIC BEHAVIOR WITH MODEL N64-30344 NASA-RP-78 N64-10668 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
MARSHALL SPACE FLIGHT CENTER, HUNTSVILLE, ALA.
EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON NATIONAL AERONAUTICS AND SPACE ADMINISTRATION.
LANGLEY RESEARCH CENTER, LANGLEY STATION, VA.
PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE NASA-TM-X-53011 STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR N64-20591 NA SA-TN-D-2036 N64-12715 NATIONAL AERONAUTICS AND SPACE ADMINISTRATION. WASHINGTON, D.C.
BIOTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA -LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE EXPLORATION MISSIONS NASA-RP-135 N64-15843 BIOASTRONAUTICS A63-10208 N64-10302 GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL NASA-TN-D-2176 N64-16916 N64-11516 MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION REFLEXES IN SEA FISH NASA-TT-F-189

RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY N64-11668

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670

POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING EXTRATERRESTRIAL LIFE N64-11671

PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL ORIGIN N64-11672

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT N64-11673

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT N64-11674

BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE FLIGHT N64-11675

CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER
SPACE FLIGHT
N64-11676

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS
N64-11680

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT
N64-11681

INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &

DEVELOPMENT IN ACTINOMYCETES AND PLANTS
N64-11682

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT

N64-11684

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS OF SATELLITES DURING SPACE FLIGHT

N64-11686

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689

METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT

N64-11690

AIR REGENERATION SYSTEM FOR SEALED CAPSULE OCCUPIED BY ANIMALS DURING SPACE FLIGHTS
N64-11691

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FLIGHT N64-11695

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696

CHLORELLA PYRENDIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMIND ACIDS - SPACE BIOLOGY

N64-11697

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT N64-11698

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

YSTEMS DURING STRESS OF ACCELERATION
N64-11699

BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS ON HUMAN BODY AT HIGH ALTITUDES

N64-11700

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT

N64-11702

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-11703

INTEGRATED PHONOCARDIOGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT N64-11704

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705

SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT N64-11706

ELECTROCARDIOGRAPHIC METHODS AND APPLICATION TO DOG STUDY DURING SPACE FLIGHTS N64-11707

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY N64-11709

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS N64-11710

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

N64-11808

N64-14655

CONDITIONED REFLEX TO MAGNETISM IN FISH NASA-TT-F-190 N64-12962

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS

AND LINEAR ENERGY TRANSFER

NASA-CR-55189

N64-13186

ASTRONAUTS FOR MANNED SPACE FLIGHT
NASA-EP-11

NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH

NASA-TM-X-51344 N64-148
HUMAN TRACKING PERFORMANCE & TOLERANCE TO

ACCELERATION
NASA-CR-21
N64-16534

MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY NASA-SP-5006 N64-17838

RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND ORGANS OF HUMAN BODY NASA-TT-F-203 N64-

N64-20194

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS NASA-TT-F-8823 N64-22936

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER,
AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION
DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-B824
N64-22937

SPACE SUIT - LIFE SUPPORT SYSTEM NASA-TT-F-8852

N64-22940

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS
NASA-TT-F-8895
N64-22941

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT NASA-TT-F-8825

N64-23042

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826 N64-23043

DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL DOSES OF IONIZING RADIATION NASA-TT-F-8851 N64-23046

LETHALITY OF EMBRYONIC CELLS IN DROSOPHILA AFTER VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHT DUE TO IONIZING RADIATION NASA-TT-F-8898

METHOD OF TREATMENT OF AURICULAR FIBRILLATION NASA-TT-F-8555 N64-23117

LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL FREQUENCIES NASA-TT-F-9018 N64-23133

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM
NASA-TT-F-173 N64-23204

ACCELEROMETRIC PRECORDIAL BALLISTOCARDIOGRAM IN

HYPERTENSION
NASA-TT-F-198
N64-2505

SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, LEARNING, AND WORK ACTIVITY
NASA-TT-F-164
N64-25132

MECHANISM OF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES

:5 N64-25133

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL ANALYSIS N64-25134

IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL HEMISPHERES TO SPATIAL PERCEPTION

N64-25135

RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL ANALYZER IN BINOCULAR VISION AND VISION DISTURBANCE - ELECTROENCEPHALOGRAPHY

N64-25136

SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ORGANS - EYES, FINGERS, HANDS N64-25137

ROLE OF EYE MOVEMENTS IN SPATIAL VISION

N64-25138

CONDITIONED REFLEX BASIS OF VISUAL SPATIAL PERCEPTION N64-25139

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL PERCEPTION OF DISTANCE TO MOVING OBJECTS

N64-25140

INDIVIDUAL PECULIARITIES IN DEPTH PERCEPTION WITH OBJECT MOVING AWAY AND TOWARD SUBJECT N64-25141 THRESHOLDS OF SPATIAL DISCRIMINATION BY HUMAN FINGERS N64-25142

FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND PATHOLOGICAL SUBJECTS - ROLE OF SPEECH

N64-25143

ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS OF OBJECTS N64-25144

DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL AGE CHILDERN N64-25145

PERCEPTION OF SIZE OF OBJECT IN SPATIAL ORIENTATION OF PRESCHOOL CHILDREN

N64-25146

DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE N64-25147

DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL CONCEPTS IN PRESCHOOL CHILDREN N64-25148

PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN DURING NATURE DRAWING N64-25149

SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH THROUGH SIXTH GRADE STUDENTS N64-25150

DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151

PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE CHILDREN DURING FIELD SURVEYING EXERCISES

N64-25152

PERCEPTION AND REPRESENTATION OF SHORTEST DISTANCE ON PLANE AND ON SPHERE N64-25153

KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS
N64-25154

DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN PROCESS OF FORMATION OF IMAGES OF GYMNASTIC EXERCISES N64-25155

INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO FILE METAL N64-25156

ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER N64-25157

PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING N64-25158

ROLE OF SPATIAL CONCEPTS IN MAP READING AND INTERPRETATION OF AERIAL PHOTOGRAPHS

N64-25159

ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN TEACHING OF DRAWING IN TECHNICAL SCHOOLS N64-25160

..

PROCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS OF DRAWING AND DESIGNING N64-25161

SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY FOR WORK N64-25162

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIDGRAPH NASA-TT-F-205 N64-25206

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND BIOLOGY
NASA-SP-7011 N64-25948

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE NASA-RP-262 N64-25975

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197
N64-26782

RHYTHM VARIATIONS OF NEURONS OF RETICULAR

FORMATION DURING LATERAL OVERLOADS

N64-26784

MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES NASA-TT-F-233

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC ACID AND ITS NUCLEOTIDES IN RAT LIVER NASA-TT-F-224 N64-27036

MEDICAL ASPECTS OF SPACE FLIGHT

N64-27071

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM N64-27367 NASA-TT-F-9026

MORTALITY OF RAT FETUS AFTER IRRADIATION OF PARENTAL GAMETES NASA TT-F-9036 N64-27369

HANDBOOK ON TYPING NASA CONTRACTOR REPORTS FOR REPRODUCTION NASA-SP-7007

AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO RADIATION, HEIGHTLESSNESS, ACCELERATION, AND BIOINSTRUMENTATION NASA-RP-306 N64-29339

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT NASA-TT-F-9131 N64-29730

SPACE MEDICINE AND MANNED SPACEFLIGHT

N64-30714

N64-33391

N64-33393

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING NASA-TT-F-9056 N64-31445

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE AND RIGIOGY NASA-SP-7011/02/ N64-32407

ANNOTATED BIBLIOGRAPHY OF AEROSPACE MEDICINE AND RIGINGY NASA-SP-7011/03/ N64-32741

INFLUENCE OF WATER INGESTION AND THIRST ON STARVATION METABOLISM

NASA-TT-F-9106 COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS, DISTILLED, AND VICHY WATER ON WATER TOXICITY NASA-TT-F-9108

N64-33392 DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY

EFFECT OF WATER INTAKE ON SODIUM CHLORIDE BALANCE NASA-TT-F-9111

NASA-TT-F-9110

WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112

ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES OF WATER BY PATIENTS NASA-TT-F-9114

WATER INTOXICATION & DIURESIS IN ADRENAL INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN OS MOREGUL AT ION NASA-TT-F-9115 N64-33397

BLOOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE NASA-TT-F-9116 N64-33398 PHYSIOLOGY & PATHOLOGY OF WATER & SALT METABOLISM AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS NASA-TT-F-9120

BIOCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION NASA-TT-F-9121 N64-33400

WATER TOXICITY STUDIES - ERYTHROCYTE AND HEMOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT OF BLOOD PLASMA NASA-TT-F-9125

RADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND NEAR BEAM ZONES NASA-TT-F-9136

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE N64-33407 NASA-TT-F-9146

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS
NASA-TT-F-9147 N64-33408

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

NATIONAL INST. OF MENTAL HEALTH, BETHESDA, MD. SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA -MORPHOLOGICAL CHANGES N64-

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY NASA-RP-215 N64-23377

NATIONAL INST. OF NEUROLOGICAL DISEASES AND BLINDNESS, BETHESDA, MD.
CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS DUE TO ASPHYXIA DURING BIRTH N64-146

NATIONAL RESEARCH CORP., CAMBRIDGE, MASS. EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288 N64-15181

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-50333 N64-22752

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-56524 N64-22785

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICRODRGANISMS - ULTRAVIOLET RADIATION EFFECT NASA-CR-56525

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE N64-33099 NASA-CR-59092

NAVAL AIR DEVELOPMENT CENTER, JOHNSVILLE, PA. CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT NADC-MA-6308 N64-12256

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS N64-13457

ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT N64-13458

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT N64-13459

INCREASED HOST RESISTANCE TO ACCELERATION STRESS -DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULO-ENDOTHELIAL STIMULATION N64-N64-13464

WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN

CONSUMPTION DURING TRANSVERSE ACCELERATION N64-13831

NONPROTEIN AMIND ACIDS & RELATED COMPOUNDS OF RAT LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS N64-14351

KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES NADC-MA-6325

N64-15051

ADAPTATION OF EYE TO FLASHBLINDNESS NADC-MA-6327

NADC-MA-6305

NADC-AC-6406

N64-15052

N64-15753

N64-28696

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING NADC-MA-6324 N64-15363

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE

NADC-MA-6328 N64-15755 PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF

ASTRONAUT DURING SPACE TRAVEL NADC-MA-6321 N64-20329

ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION NADC-MI -6402 N64-20450

ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION BETWEEN TWO STIMULI BY FEMALE HOODED RATS NADC-MI -6404 N64-22719

PLOTTING AND ANALYZING CUMULATIVE RESPONSE CURVES IN OPERANT CONDITIONING STUDIES NADC-ML-6406 N64-26237

PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE DXYGEN AT REDUCED ATMOSPHERIC PRESSURE

NADC-ML-6403 N64-27953

ACUTE AND CHRONIC TOXICITY IN RATS FROM DXYGEN AT HIGH PRESSURE NADC-MA-6331

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION

MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE EXPERIMENTS

NADC-ML-6410

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION NADC-ML-6407 N64-31665

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULENCE ON JET AIRLINE PILOTS NADC-ML-6411 N64-31666

NAVAL AIR ENGINEERING CENTER, PHILADELPHIA, PA.

HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES N64-15107

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID

DECOMPRESSION AND PROLONGED LOW PRESSURE N64-15856

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES NAEC-ACEL-518 N64-17659

NAVAL MEDICAL RESEARCH INST., BETHESDA, MD. ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN THERMOREGULATOR ASAE PAPER 62-422 N64-13149

MECHANISM OF ELEMENTARY BIDSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER NASA-CR-55562 N64-16322

HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS NASA-CR-56293

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC CONTAMINANTS

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE REPT.-3 N64-30696

NAVAL MEDICAL RESEARCH LAB., NEW LONDON, CONN. EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591

LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ALTERATION PATTERN STUDIES DURING AUTOLYSIS AND ANOXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION N64-14605

EFFECT OF PROLONGED BREATHING OF HELIUM-OXYGEN ON SPEECH INTELLIGIBILITY AD-602545

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION

NAVAL ORDNANCE TEST STATION. CHINA LAKE. CALIF.

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL WEAPON DELIVERY TECHNIQUES NOTS-TP-3346 N64-26235

NAVAL RADIOLOGICAL DEFENSE LAB.,

SAN FRANCISCO, CALIF.
SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN
SHELTER - ATMOSPHERE AND TEMPERATURE STUDIES USNRDL-TR-618

BLOOD PRESSURE MEASUREMENTS OF DXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA

PRIMER ACTIVITY OF CHROMATOGRAPHY ERACTIONATED DEDXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS USNRDL-TR-655 N64-24185

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740

NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION USNRDL-TR-670 N64-31175

NAVAL RESEARCH LAB., WASHINGTON, D.C. FEASIBILITY OF DXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES NRL-5954 N64-10551

OXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT

SPECTROMETER FOR DIRECT MEASUREMENT OF WAVELENGTH DERIVATIVES OF SPECTRAL CURVES N64-17218 N64-17218

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES NRL-6053 N64-18868

ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE NRL-6074 N64-19393

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE NRL-6064 N64-19407

CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND MERCURY SPACECRAFT ATMOSPHERES N64-24608 CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE ATMOSPHERE N64-24619

NAVAL SCHOOL OF AVIATION MEDICINE, PENSACOLA,

ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS SAM-TDR-63-78 N64-12677

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER NASA-CR-55189 N64-13186

WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK -ELECTROCARDIOGRAPHIC ANOMALY N64-14778

SCREENING TECHNIQUES, TRAINING STANDARDS, AND SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND N64-15105

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA NASA-CR-55625 N64-15346

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS NASA-CR-55620 N64-15348

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE NASA-CR-55622 N64-15349

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION

NASA-CR-55619

EFFECT OF BODY POSITION, VISUAL REFERENCE CUES, AND TIME UPON JUDGEMENT OF VISUAL HORIZON NASA-CR-55618 N64-15351

N64-15350

INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY ANGULAR ACCELERATION NASA-CR-55617

BIDINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE NASA-CR-55615 N64-15353

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL NASA-CR-55616 N64-15354

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS NASA-CR-55614 N64-15355

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE NASA-CR-55624 N64-15540

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA

IN HUMAN SUBJECTS NASA-CR-55756 N64-16330

VESTIBULAR DISORIENTATION DUE TO CORIOLIS ACCELERATION NASA-CR-55784 N64-16331

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS N64-16567

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS PHASE SHIFT

NASA-CR-53618

N64-18421 ·

PROTECTIVE EFFECT OF XYLOCAINE ON TOLERANCE OF VIBRATED RATS TO EXPLOSIVE DECOMPRESSION

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT NASA-CR-53958 N64-20730

HUMAN REACTIONS TO SLOW ROTATIONAL MOTION NASA-CR-53988 N64-20731

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM

N64-22433

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS

N64-22437

FIRE HAZARD IN LOW PRESSURE OXYGEN ATMOSPHERE N64-22705

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION FPRC-1207 N64-25847

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX VESTIBULAR STIMULATION IN MAN NASA-CR-56896 N64-27889

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS NASA-CR-56886

GRAVITATIONAL EFFECT ON CUPULA DISPLACEMENT NASA-CR-56791 N64-27891

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS AMRL-TDR-64-47

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI NASA-CR-58548 N64-28833

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS NASA-CR-58675

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE

PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT

TRAINING

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM N64-30493

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM

N64-30715

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9NASA-CR-58948 N64-31553

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY

MEN AFTER EXPOSURE TO RAPID DECOMPRESSION -ALTITUDE SIMULATION TESTS RR-3

N64-31886

CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY AD-420856

N64-32375

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION NASA-CR-59180 N64-

N64-33159

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE -RADIATION HAZARD IN SPACE FLIGHT NASA-CR-59266 N64-33284

ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY - INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION NASA-CR-59286 N64-33331

LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL -PHYSIOLOGICAL SYNCOPE N64-33570

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT JUNCTION OF INFERIOR UTRICULAR SINUS AND SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS -PHYSIDLOGY

NASA-CR-59374 N64-33906

NAVAL TRAINING DEVICE CENTER, PORT WASHINGTON,

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES NAVTRADEVCEN-IH-14 N64-28902

NAVY DEPT., WASHINGTON, D.C.
ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES N64-24607

NEBRASKA U., LINCOLN.
COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC VORTEX TURE N64-23816

NETHERLANDS CENTRAL INST. FOR BRAIN RESEARCH, AMSTERDAM.

EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX N64-14590

NEUE U. KIEL /W. GERMANY/. OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN GREY MATTER OF BRAIN AT CAPILLARY LEVEL

NEW HAMPSHIRE U., DURHAM.
EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES TN-62-12 N64-13988

INTUBATION OF ABNORMAL ADRTA OF GROUND SQUIRREL TECH. NOTE-63-2 N64-19557

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL N64-31935

NEW JERSEY STATE DEPT. OF HEALTH, WEST ORANGE. SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY NY0-2762 N64-20485

NEW MEXICO STATE U., UNIVERSITY PARK.
PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT
NEW MEXICO STATE UNIVERSITY OBSERVATORY

N64-16327

NEW YORK MEDICAL COLL., N.Y.
HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER ARL-TDR-64-1 N64-18650

NORTH AMERICAN AVIATION, INC., COLUMBUS, OHIO.
SIMULATOR STUDY OF HUMAN PERFORMANCE DURING
LOW ALTITUDE, HIGH SPEED FLIGHT
TRECOM-TR-63-52
N6

N64-16648

PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT

N64-28948

NORTH AMERICAN AVIATION, INC., DOWNEY, CALIF-BIBLIOGRAPHY OF LITERATURE OF DETECTION INSTRUMENTS USED TO MONITOR TOXIC GAS CONCENTRATION IN ATMOSPHERE SID-63-755 N64-10137

HYPOTHERMIA & ARTIFICIAL HIBERNATION FOR SPACE TRAVEL - ANNOTATED BIBLIOGRAPHY SID-63-354 N64-11821

BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF LIFE SUPPORT SYSTEM FOR LUNAR BASE

N64-13714

SPACECREW SELECTION AND TRAINING - LITERATURE SID-63-707

SPACE VEHICLE THERMAL & ATMOSPHERIC CONTROL

NORTH CAROLINA U., CHAPEL HILL.
FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON NERVOUS SYSTEM

NORTHROP CORP., HAWTHORNE, CALIF.
STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS
LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR
SPACE BIOLOGY RESEARCH NASA-CR-55553 N64-15902

OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF STRAINED MARINE ALGAL FLAGELLATES SAM-TDR-63-91 N64-16643

RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE NASA-CR-58526 N64-28838

NORTHWESTERN TECHNOLOGICAL INST., EVANSTON,

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS TN-62-13

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA

TN-62-16 N64-21554

NOTRE DAME U., IND.
CHRONIC EFFECTS OF IONIZING RADIATION ON HEMATOPOIETIC SYSTEM AD-602135 N64-29673

NUKLEARNI INSTITUT JOZEF STEFAN. LJUBLJANA /YUGOSLAVIA/.

TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION NIJS-R-422 N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG NIJS-R-423 N64-21049

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS NT.IS-R-421 N64-21056

RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS THROUGH ATOMIC ABSORPTION - FLAME PHOTOMETRY NT.IS-R-425 N64-21698

O

OAK RIDGE INST. OF NUCLEAR STUDIES, INC., TENN.

RADIATION MEDICINE - RADIATION EFFECTS, LIPID METABOLISM, IMMUNOLOGY, AND DIAGNOSIS DRINS-43 N64-16945

OAK RIDGE NATIONAL LAB., TENN. SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK & COBALT 60 SOURCE OPERATION IN BREN PROJECT CEX-6203 N64-10408

CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION ORNL-3531 N64-14442

AUTORADIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN
WHITE PULP GERMINAL CENTERS OF NORMAL AND
ANTIGENICALLY STIMULATED ANIMALS
ORNL-3595 N64-20636

RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT INDEX TID-3912 N64-28788

OFFICE OF NAVAL RESEARCH, WASHINGTON, D.C.
GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS,
HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL
AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN
LOW ALTITUDE HIGH SPEED FLIGHT
ACR-95
N64-3150

OHIO STATE U. RESEARCH FOUNDATION, COLUMBUS.
CATHETER-TIP FLOW METER FOR MEASUREMENT OF
CORONARY ARTERIAL BLOOD FLOW IN DOGS
SAM-TDR-64-33 N64-29989

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE SAM-TDR-64-36 N64-33352

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES TDR-2 N64-33459

OHIO STATE U., COLUMBUS.
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR
AMRL-TDR-63-118 N64-16799

EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS

AMRL-TDR-63-125 N64-1681

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL AMRL-TDR-63-136 N64-16813

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES RADC-TOR-64-266 N64-31695

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM AMRL-TDR-64-51 N64-33907

OREGON STATE U., CORVALLIS.

BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF
DIMETHYLHYDRAZINE
AMRL-TOR-63-127
N64-16584

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS
AMRL-TDR-63-128 N64-16585

OXFORD U. /GT. BRIT./
BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANOXIC
SURVIVAL
N64-14584

P

PENNSYLVANIA STATE U., UNIVERSITY PARK.
EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
NASA-CR-55656 N64-16326

BEHAVIOR OF BIOLOGICAL CELLS & SYSTEMS UNDER CONDITIONS OF WEIGHTLESSNESS NASA-CR-56482 N64-22420

PENNSYLVANIA U., PHILADELPHIA. MECHANICS OF HUMAN BODY AMRL-TDR-63-123

N64-24339

LOCATION OF CENTER OF GRAVITY IN HUMAN BODY
N64-24340

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24341

HUMAN BEHAVIOR N64-24342

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES AD-600263 N64-28812

PHILCO CORP., PALO ALTO, CALIF.
HUMAN ENGINEERING IN MONITORING AND CHECKOUT
EQUIPMENT
WDL-TR-1968 N64-13972

PHILIPPS-UNIVERSITAT, MARBURG /W. GERMANY/.
CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR
PATHOLOGY IN HYPOXEMIC STATE N64-14594

PHILIPS GLOEILAMPENFABRIEKEN, N.V., EINDHOVEN
/NETHERLANDS/.
GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL
RADIOGRAPHY N64-23275

PITTSBURGH U., PA.
MICROSPECTROPHOTOMETRY

N64-14740

PORTUGAL. NUCLEAR ENERGY COMMISSION, SACAVEM.
AUTORADIOGRAPHIC STUDY OF INCORPORATION OF
TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID
MOLECULE
LFEN-NI.11 /ALPHA/ N64-25

PRINCETON U., N.J.
THRESHOLD OF VISUAL DETECTION OF ACCELERATED
MOTION
AFOSR-64-0189
N64-21381

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE AD-607325 N64-33507

PUBLIC HEALTH SERVICE, CINCINNATI, OHIO.

VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD

LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TO

CONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS

N64-24614

PUBLIC HEALTH SERVICE, WASHINGTON, D.C. SMOKING AND HEALTH OF HUMANS

N64-13017

PURDUE U., LAFAYETTE, IND.

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN
OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15

N64-30018

R

R.F. COMMUNICATIONS, INC., ROCHESTER, N.Y.
VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED
ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF
HUMAN BODY TO RADIO WAVES
SAM-TDR-63-80 N64-16642

RADIATION APPLICATIONS, INC., LONG ISLAND
CITY, N.Y.

URINE ULTRAFILTRATION FOR WATER RECOVERY USING
MEMBRANE FILTERS
NASA-CR-51575
N64-11383

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS AMRL-TDR-63-113 N64-14695

RADIO CORP. OF AMERICA, BETHESDA, MD.
FLASH AND REAL-TIME IDENTIFICATION OF HIGH
PRIORITY TARGETS - PHOTO INTERPRETATION

N64-10535

RADIO CORP. OF AMERICA, CAMDEN, N.J.
QUEUING MODEL FOR DETERMINING MANPOWER AND
TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21 N64-19101

RADIO CORP. OF AMERICA, MOORESTOWN, N.J. ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

RADIO CORP. OF AMERICA, PRINCETON, N.J. EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS N64-26884 AMRL-TDR-64-39

RAND CORP., SANTA MONICA, CALIF.
THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS NASA-CR-55279

DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS RM-4138-NIH

RAYTHEON CO., WALTHAM, MASS.
PREPARATION OF PROGRAMMED INSTRUCTION FOR
AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM ESD-TDR-63-608 N64-12319

RCA SERVICE CO., INC., CAMDEN, N.J.
PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL
MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN
PHYSIOLOGICAL MONITORING SYSTEM

AMRL-TDR-62-98/2/ N64-13872

REPUBLIC AVIATION CORP., FARMINGDALE, N.Y. HYPERSONIC FREE-PISTON TUNNEL RAC-1884

N64-15344

ISOLATION OF FECAL BACTERIA AND ESTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS N64-15550 NASA-CR-55561

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021 N64-25950

PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA NASA-CR-56942 N64-27314

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/

NASA-CR-58287 N64-29194

FAULT ISOLATION PRESENTATION AMRL-TDR-64-57

N64-31944

NORMAL FECAL BACTERIAL FLORA OF MAN -MORPHOLOGICAL TYPE CULTURES NASA-CR-59257

N64-33288

RESEARCH TRIANGLE INST., DURHAM, N.C. EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK DU-107 N64-20811

RESOURCES RESEARCH, INC., WASHINGTON, D.C. GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-22755

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE NASA-CR-56532 N64-22793

RITCHIE AND ASSOCIATES, INC., DAYTON, OHIO.

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS
TASK USING PREDICTOR DISPLAY

AMRL-TDR-64-55 N64-27445

ROCHESTER U., N.Y.
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT
ANTIBODY TO RAT FIBRINOGEN IN NORMAL AND TUMOR-BEARING RATS N64-10190 UR-634

TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS N64-10616 UR-635

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN CELL MEMBRANE UR-633

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF **EXTERNAL RADIATION** N64-10936

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE RADC-TDR-63-352 N64-12270

DEVICE FOR MEASUREMENT OF RADON IN BREATH UR-640 N64-17466

STRONTIUM 90 TOXICITY IN RAT EMBRYO N64-18348 UR-639

EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT, AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES UR-624

CONTROL FEMALE ALBING RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST N64-19865 UR-646

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR UR-ENG-49-7 N64-19921

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS

N64-20696 IIR-654 RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF

DOSE, AGE, & ADMINISTRATION RATE HR-642 N64-20715 EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC

PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL NASA-CR-56523 N64-22783

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH UR-649 N64-31035

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION DOSE WITHIN TISSUE UR-651 N64-31059

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM

POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE -BIOGENESIS N64-32074

ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED ILLUMINATIONS - PHOTOSYNTHESIS RATES N64-33261

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE TEEUMINATIONS N64-33456

ROCKETDYNE, CANOGA PARK, CALIF.
BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE SCIENCES, QUALITY CONTROL, AND RELIABILITY RH-3398B N64-18490

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS N64-25823

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING N64-27351 RH-3398-E

ROME AIR DEVELOPMENT CENTER, GRIFFISS AFB,

HUMAN FACTORS OF PHOTO INTERPRETATION RADC-TDR-63-324 N64-10526

CONTRIBUTIONS OF AUTOMATION TO PHOTO INTERPRETER FUNCTIONS - OPTICAL PROCESSING AND TEXTURAL ANALYSIS N64-10527

HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION N64-10528 ROME U. /ITALY/. NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR MODIFIED BY DRUG INDUCEMENT AD-601689 N64-32410 ROYAL AIR FORCE, FARNBOROUGH /GT. BRIT./ AEROSPACE MEDICINE IN AERONAUTICS RESEARCH

MEASURING PILOT PERFORMANCE AND CONTROL IN ELIGHT TASK SIMULATOR IAM-TM-226

N64-25828

N64-11882

ROYAL AIRCRAFT ESTABLISHMENT. FARNBOROUGH

RAE-TM-ME-273

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM N64-14585

ROYAL CANADIAN AIR FORCE, TORONTO.

PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND
PROTECTIVE CLOTHING

N64-13453

HIGH ALTITUDE MAN SEAT STABILIZATION STUDY CEPE-1681 N64-26348

ROYAL INST. OF TECH., STOCKHOLM /SWEDEN/.
SOUND SPECTRUM ANALYSIS, SYNTHETIC VOWEL SPECTRUM
ENVELOPES, AND PERCEPTION OF INTONATION IN FRENCH, ENGLISH, AND SWEDISH SPEECH AD-424609 N64-12975

ACOUSTIC SPECIFICATION OF SPEECH AFCRL-64-263

N64-26499

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY STL-QPSR-3/1963/ N64-26 N64-26675

ROYAL NORWEGIAN AIR FORCE, BLINDERN.
EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION
CHANGES IN BLOOD OF PILOTS REPT.-63-2 N64-10433

S

SAN JOSE STATE COLL. FOUNDATION, CALIF.
CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION N64-22434

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438

SANDIA CORP., ALBUQUERQUE, N. MEX.

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING WEAPONS SC-4973/RR/

VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS SC-4959/M/

HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE SCR-685 N64-17267

SANTA RITA TECHNOLOGY, INC., MENLO PARK, CALIF.

ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT N64-18836

SAWYER /A.J./ CO., INC., STRYKERSVILLE, N.Y. CIRCULATING DEVICE FOR CLOSED CIRCUIT RESPIRATORY SYSTEM AMRI -TDR-64-8

SCHOOL OF AEROSPACE MEDICINE, BROOKS AFB, TEX. ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR **FLIGHTS** SAM-TDR-62-110 N64-10558

CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING

EQUIPMENT SAM-TDR-63-56

N64-12176

POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN TWO-MAN SPACE CABIN SIMULATOR SAM-TDR-63-60 N64-12246

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN SAM-TDR-63-52 N64-12321

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT SAM-TDR-63-75 N64-12340

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED

FOR DENTAL SURGERY SAM-TDR-63-11 EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL

CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS SAM-TDR-63-78

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TDR-63-59 N64-12855

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN MAN N64-12864

RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC **EXAMINATION OF UNANESTHETIZED PRIMATES** SAM-TDR-63-93 N64-12865

CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND PERIPHERAL BLOOD ELEMENTS OF MONKEYS SAM-TDR-63-55 N64-13078

MICROORGANISMS IN HUMAN GINGIVAL TISSUES SAM-TDR-63-88 N64-13865

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT SAM-TDR-63-9 N64-13931

FACTORS AFFECTING CELLULAR DXYGEN CONSUMPTION AT LOW OXYGEN TENSIONS SAM-TDR-63-68

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS SAM-TDR-63-86 N64-15742

CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD WITH SELECTED WHOLE BLOOD CONSTITUENTS SAM-TDR-63-92 N64-15743

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94 N64-15744

ECOLOGIC RELATIONSHIPS BETWEEN BACTERIA AND ALGAE IN PHOTOSYNTHETIC GAS EXCHANGERS NASA-CR-55423 N64-16325

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED **OXYGEN TENSION** SAM-TDR-63-64 N64-16640

EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS -REVIEW OF EXPERIMENTAL STUDIES AD-433129 N64-1792 N64-17924

URINE EVACUATING SYSTEM FOR USE IN FULLY PRESSURIZED SUITS SAM-TDR-64+13 N64-17958

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY SAM-TDR-64-4 N64-17963

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE SAM-TDR-64-2 N64-18886 ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA SAM-TDR-64-6 N64-18917

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY **IMPLANTATION** SAM-TDR-64-10

NITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN FAT - GAS CHROMATOGRAPHIC DETERMINATION SAM-TDR-64-1 N64-19822

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION REPT.-12-63 N64-20380

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE SAM-TDR-63-12 N64-21101

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN SAM-TDR-64-3 N64-21595

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CART-63-30

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN SAM-TDR-64-28

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION PROCEDURES SAM-TDR-63-73 N64-25040

MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM SAM-TDR-64-21 N64-25338

HIGH DXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY

SAM-REVIEW-3-64 N64-26269

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES SAM-TDR-64-37 N64-29286

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE SAM-TDR-64-39 N64-2928 N64-29287

CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA SAM-TDR-64-44 N64-2928B

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION SAM-TR-63-82 N64-30498

LECTURES IN AEROSPACE MEDICINE - LIFE SUPPORT SYSTEMS, HUMAN PERFORMANCE, AND LANDING SIMULATION FOR MANNED LUNAR LANDING, ORBITING LABORATORY, AND MARS MISSIONS AD-445253

MEDICINE, AEROSPACE, AND MANNED SPACE FLIGHT N64-30713

SOLAR FLARES AND SPACE RADIATION

N64-30717

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE N64-30718

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720

AEROSPACE MEDICINE AND ASTRONAUT EVALUATION

HAZARDS IN OXYGEN ENVIRONMENT N64-30727

MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS SAM-TDR-64-38 N64-31050

SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, OXYGEN, HELIUM AND 50-50 HELIUM-OXYGEN MIXTURES AT LOW PRESSURES SAM-TDR-64-43

EFFECTS OF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON TOXICITY OF AEROZINE SAM-TDR-64-49 N64-31052

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN SAM-TDR-64-50 N64-31053

VACUUM ADAPTATION OF BASEPLATE MATERIALS TO DENTAL CASTS SAM-TDR-64-51 N64-31054

ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS N64-32400

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS SAM-TDR-64-57 N64-32981

SCHWARZ BIORESEARCH, INC., ORANGEBURG, N.Y.
CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN SPACE NASA-CR-59003 N64-33044

SERENDIPITY ASSOCIATES, LOS ANGELES, CALIF.
PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM NASA-CR-95 N64-30831

SHARPLEY LABS., INC., FREDERICKSBURG, VA. ELEMENTARY HYDROCARBON MICROBIOLOGY ASD-TDR-63-752 N64-21501

SHEFFIELD U. /GT. BRIT./
CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY
DETECTION TASKS NAVTRADEVCEN-3143-1 N64-22518

SOCIETY OF AUTOMOTIVE ENGINEERS, INC., NEW YORK. N.Y.

AIRCRAFT ACCIDENT PREVENTION PROGRAM OF FAA SAE PAPER 854D A64-20234

SELF PROPULSION SYSTEM DESIGN OF ASTRONAUT MOBILITY IN SPACE SAE PAPER 857H A64-20307

POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION SAE PAPER 8510

BODY SUPPORT CHARACTERISTICS OF NET FABRIC SEAT CONFIGURATIONS FOR AEROSPACE VEHICLES, EVALUATED FROM ACCELERATION, IMPACT AND VIBRATION TESTS SAE PAPER 851C A64-2068B

AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH INJURIES TO PASSENGERS SAE PAPER 851A A6 A64-20759

HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER EVACUATION FROM SURVIVAL ACCIDENTS SAE PAPER 851B A64-20760

PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR

FOR ASTRONAUT TRAINING SAE PAPER 866H

A64-20850

SPACE TECHNOLOGY LABS., INC., REDONDO BEACH, CALIF.

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS
NASA-CR-56374
N64-23993

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS NASA-CR-56362 N64-24040

AUTOMATIC COMPUTER METHODS FOR DETERMINING
PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY
LINEAR TIME-INVARIANT MODEL
NASA-CR-56373
N64-27385

SPACE/DEFENSE CORP., BIRMINGHAM, MICH.
RESPIROMETER AND LIFE SUPPORT SYSTEM FOR POTATO
SPECIMEN IN SPACE ENVIRONMENT
NASA-CR-58945 N64-33189

SPACELABS, INC., VAN NUYS, CALIF.
IMPEDANCE PNEUMOGRAPH SIGNAL CONDITIONER
NASA-CR-56834 N64-25572

ST. LOUIS U., MO.
EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON
TISSUE CATECHOLAMINE CONTENTS N64-12943

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE N64-22077

STANFORD RESEARCH INST., MENLO PARK, CALIF.
PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION
BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR
DESIGN OF TACTILE COMMUNICATION DEVICE
ASD-TDR-63-732
N64-14689

TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF ARTERIAL BLOOD PRESSURE N64-16184

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION
NASA-CR-56130
N64-20705

SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF MACHINE LEARNING PATTERNS
RADC-TDR-64-145 N64-25235

LEARNING MACHINE - PATTERN RECOGNITION MODEL TN-1 N64-25296

ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY NASA-CR-58340 N64-28935

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR NASA-CR-59220 N64-33124

STANFORG U., CALIF.
DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-405777 N64-20445

HYPOXIA - TREATMENT METHODS FOR HIGH ALTITUDE
PULMONARY EDEMA
AD-433546 N64-21816

IMPROVEMENT OF BIOCHEMICAL INSTRUMENTATION NASA-CR-51095 N64-22774

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR
WEIGHT ORGANIC SYNTHESIS
NASA-CR-56531
N64-22792

DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN
AD-411171 N64-25383

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS
AAL-TDR-63-16 N64-30975

STATE U. OF IOWA, IOWA CITY.
WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS
USING MICROWAVE ENERGY SOURCE
AMRL-TDR-63-130
N64-18789

STATE U. OF NEW YORK AT BUFFALO.
RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION
AMRL-TDR-63-103/1/ N64-17926

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW N64-17928

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING
N64-17929

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING N64-17934

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937

OXYGEN DISSOCIATION CURVE DETERMINATION -POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939

MEASUREMENT OF DXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS
N64-17940

N64-17940

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY
VEIN N64-17943

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION

RATIO OF LUNG N64-17944

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

GAS EXCHANGE IN LUNGS OF MAN

N64-17945

N64-17941

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION
N64-17947

GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER N64-17948

GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE

N64-17949

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950

OXYGEN STORAGE IN HUMAN BODY N64-17951

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG N64-17952

SURVIVAL OF MICE IN ABSENCE OF INERT GAS

N64-17953

TRACHEA OCCLUSION IN RATS BREATHING DXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY N64-17955

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY AD-600259 N64-27693

STATE U. OF NEW YORK, STONY BROOK.
ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS
IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-1365 N64-13653

SYSTEM DEVELOPMENT CORP., SANTA MONICA, CALIF.
MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR FEASIBILITY STUDY OF CONVERSION TO AUTOMATIC DATA
PROCESSING SYSTEM
TM-1210/000/01 N64-1991 N64-19919

COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL SCIENCES - BIBLIOGRAPHY SP-1025/001/00 N64-323: N64-32324

SYSTEM RESEARCH, LTD., RICHMOND /GT. BRIT./
SELF-ORGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING
AND PERFORMANCE - INTERACTION BETWEEN MAN AND ADAPTIVE MACHINE N64-18841

T

TECHNICAL TRAINING SCHOOL /3750TH/, SHEPPARD AFB, TEX.

OUTLINE FOR PHOTO INTERPRETATION COURSES AND SELECTION AND TESTING OF STUDENTS

N64-10536

TECHNISCH DOCUMENTATIE EN INFORNATIE CENTRUM
VOOR DE KRIJGSMACHT, THE HAGUE /NETHERLANDS/.
ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS
OF THERMAL RADIATION AND RADIATION SOURCES, AND
PROTECTION AGAINST BIOLOGICAL EFFECTS TDCK-33500 N64-32018

TECHNISCHE HOCHSCHULE DARMSTADT /W. GERMANY/. HUMAN PILOT CONTROL OF AIRCRAFT - BIBLIOGRAPHY

TENNESSEE U., DAK RIDGE.
CLINICAL MEDICINE STUDIES OF PHYSIOLOGICAL EFFECTS
OF RADIATION EXPOSURE ORO-614

RADIOBIOLOGICAL RESEARCH - STUDIES ON ANIMAL METABOLISM, EFFECTS OF EXPOSURE, PATHOLOGY, BIOCHEMISTRY OF FISSION PRODUCTS, AND GENETICS DR0-624 N64-31471

TENNESSEE VALLEY AUTHORITY, OAK RIDGE.
RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR EGCR-4 N64-21837

TEXAS AGM RESEARCH FOUNDATION. COLLEGE

STATION. GAMMA RADIATION EFFECT ON THERMAL STRESS RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND 2 IAMMAN AD-600960 N64-25308

RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATOPOIETIC SYSTEM N64-25310

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-

INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN ALBING RAT N64-25312

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS N64-25313

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, N64-25314

TEXAS ASM U., COLLEGE STATION.
HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL
RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND
NEUTRON IRRADIATION IN GOATS RTD-TDR-63-3077 N64-13827

TEXAS CHRISTIAN U., FORT WORTH. PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL REFERRED FOR PSYCHIATRIC EVALUATION PRL-TDR-63-23 N64-18785

PREDICTION OF ADAPTABILITY OF BASIC AIRMEN REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION AD-436571 N64-18906

TEXAS U., DALLAS. RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N N64-28649

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE

TEXAS U., GALVESTON. HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL AD-426228 N64-14324

TEXAS WOMENS U., DENTON.
BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS NASA-CR-55313

N64-14898 THOMPSON RAMO WOOLDRIDGE, INC., CLEVELAND, DHIO.

CARBON DIOXIDE CHEMICAL REDUCTION UNIT FOR CONTINUOUS ZERO GRAVITY OPERATION NASA-CR-54060 N64-20679

TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK. DELFT /NETHERLANDS/.

BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT EUR-484.F N64-19296

TOKYO U. /JAPAN/.
FUNCTION OF FINGERS AND AUTOMATIC CONTROL OF ARTIFICIAL FINGERS FOR ENGINEERING N64-15557

TORONTO U. /CANADA/. MEASUREMENT OF POST-MORTEM LACTIC ACID
CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA N64-14586

TRINITY COLL., DUBLIN /IRELAND/.
GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF CONTROLLING EPISOMES QTSR-1 N64-32514

TUFTS U., MEDFORD, MASS.
EMPIRICAL STUDY OF HUMAN BELIEFS ESD-TDR-64-238

N64-22567

BIBLIOGRAPHY ON HUMAN ENGINEERING DNR-ACR-B6

N64-29676

ROLE OF PINNA IN HUMAN LOCALIZATION AD-600151

N64-30491

U

UNION CARBIDE RESEARCH INST., TARRYTOWN, N.Y.
PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION,
ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING
GROWTH
NASA-CR-52635
N64-15895

4A SA-CK-32633

ESD-TDR-64-437

UNITED AIRCRAFT CORP., FARMINGTON, CONN.
HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION,
MAINTENANCE, AND CONTROL OF TACTICAL
METEOROLOGICAL INSTRUMENTS

N64-29751

UNITED AIRCRAFT CORP., WINDSOR LOCKS, CONN.
APPLICATION OF STATISTICAL DECISION THEORY TO
DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531
N64-28

UNIVERSITY COLL., GALWAY /IRELAND/.
PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN
ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE
AND CAT LUNG
AD-429070 N64-1483

UNIVERSITY COLL., LONDON /GT. BRIT./
PHONETICS - STUDIES OF BRITISH, HUNGARIAN, AND
GERMAN SPEECH
AFCRL-64-86 N64-16802

UTAH U., SALT LAKE CITY.
EXPOSURE OF MICE TO LOW TEMPERATURES FOR
SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TDR-63-9 N64-18874

INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION PSYCHOLOGY
N64-24
N64-24

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING
EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS
IN MOUSE PERIPHERAL BLOOD
AAL-TDR-63-3 N64-31934

V

VICTORIA U., WELLINGTON /N. ZEALAND/.
AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES
OF BIRDS N64-15802

FORMS OF SOIL BIOTIN

AMRL-TDR-63-116

N64-15803

VITRO ENGINEERING CO., NEW YORK, N.Y.
COBALT-60 BULK GRAIN IRRADIATION FACILITY
BNL-810/T-312/ N64-19091

W

WALTER REED ARMY INST. OF RESEARCH,
WASHINGTON, D.C.
PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS
OPPORTUNITY TO OBTAIN REINFORCING BRAIN
STIMULATION
N64-17498

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA N64-18056

WASHINGTON SCHOOL OF PSYCHIATRY, D.C.
ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING
TASKS UNDER STRESS
AD-428112
N64-14168

WASHINGTON U., SEATTLE.

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS
ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS
TIMES OF COLD EXPOSURE
AAI-TDR-63-7
N64-1363

AAL-TDR-63-7 N64-1363
ANALOG COMPUTER SIMULATION OF THERMOREGULATORY
MECHANISMS OF HUMAN BODY

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT
AAL-TDR-63-17 N64-31829

WASHINGTON U., ST. LOUIS, MO. HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL MONKEYS NASA-CR-55517

NASA-CR-58284

N64-16328

WESTERN AUSTRALIA U., PERTH.
UNIVERSITY OF AUSTRALIA RESEARCH PROGRAMS IN
PHYSICS, CHEMISTRY, CIVIL AND ELECTRICAL
ENGINEERING, AND MATHEMATICS
N64-32986

WHIRLPOOL CORP., ST. JOSEPH, MICH.
HUMAN WASTE COLLECTION AND STORAGE DURING SPACE
FLIGHT
AMRL-TDR-64-3
N64-18041

WHITE ELECTROMAGNETICS, INC., BETHESDA, MD.
ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-56527
N64-22788

WILLIAMS /CLYDE/ AND CO., COLUMBUS, OHIO.
MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY
NASA-SP-5006 N64-17838

WILMOT CASTLE CO., ROCHESTER, N.Y.
STERILIZATION OF SPACE PROBE COMPONENTS
NASA-CR-56474

STERILIZATION OF SPACE PROBE COMPONENTS

N64-23019

DRY HEAT STERILIZATION OF SPACE PROBES -BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS INFLUENCING EFFECTIVENESS

NASA-CR-58285 N64-28764

WISCONSIN U., MADISON.
BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH
MRC-405
N64-17921

WISSENSCHAFTLICHE GESELLSCHAFT FUR LUFT- UND
RAUMFAHRT, COLOGNE /W. GERMANY/.
MONTE CARLO METHODS FOR MATHEMATICAL AIR AND SPACE
TRAVEL PROBLEMS
WGLR-6/1963 N64-11863

WORCESTER FOUNDATION FOR EXPERIMENTAL BIOLOGY,
SHREWSBURY, MASS.
RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL
STRESS
ARL-TDR-63-26
N64-14044

Υ

YALE U., NEW HAVEN, CONN. ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES N64-13139

PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS
BY NUTRITIONAL REQUIREMENTS
NASA-CR-50397 N64-22768

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN
PH FACTOR OF SELECTED MEDIUM
NASA-CR-56528
N64-22789

YESHIVA U., NEW YORK, N.Y.
STIMULATION DUE TO SELF-INDUCED MOVEMENT IN
PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727

DISARRANGED EYE-HAND COORDINATION

N64-22061

Personal Author Index

AEROSPACE MEDICINE AND BIOLOGY / a continuing bibliography FEBRUARY, 1965 Issues SP-7011 through SP-7011 (06)

Listing of Personal Authors of Reports

A Notation of Content, rather than the title of the document, appears under each author's name; it is listed under several headings to provide multiple access to the subject content. The accession number is located beneath and to the right of the Notation of Content, e.g., N64-12345. Under any one author's name, the accession numbers are arranged in sequence.

AARONS, L. GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND PERCEPTION OF VERTICAL IN PRESENCE OF TILTED A64-80703

ABATURDVA, YE. A.
HEMATCLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL
CHANGES IN DGGS DURING RECOVERY PERIOD FROM RACIATION SICKNESS N64-32780

ABBEY. D. S. CONTROL-DISPLAY-HUMAN OPERATOR INTERACTION AND PERFORMANCE ON COMPLEX PERCEPTUAL MOTOR TASK 464-25202

ABDULLAYEV, V. D. EFFECT OF ULTRAVIOLET RADIATION ON RADIATION SICKNESS IN RATS N64-12803

ABELEVA, E. A.

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC
MUTATION OF DROSOPHILA MELANOGASTER INSECTS

N64-11680

ABELMANN, W. H. EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS RELATED TO GLUCOSE UTILIZATION A6

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS AMRL-TDR-63-122

MICROBICLOGICAL ANALYSIS OF IRON AND STONE
METEORITES, NOTING ABILITY OF BACTERIA TO
PENETRATE INTO CENTRAL REGIONS
A

A64-18628 ACETO. M. D. G.
RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS
SUBJECTED TO EXPERIMENTAL STRESS

A64-81132 RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309

CYCLIC RADIATION DOSE RATE EFFECT ON RAT HEMATCPOIETIC SYSTEM N64-25310 ADAMENKO, M. P. CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA JPRS-18855 N64-10867

ADAMS, C. R. HUMAN FACTORS FOR EXTRAVEHICULAR SPACE ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT

ADAMS, G. D.
RADIATION THERAPY, SYNCHROTRON OPERATION,
RADIOBIDLOGY, & RADIATION GENETICS STUDIES
N N64-13133

VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN PERFORMANCE FOR VIGILANCE TASKS

A64-26850

PRACTICE AND EXPOSURE TIMES EFFECT ON DIAL READING, COMPARING CIRCULAR AND LINEAR SCALES FOR ACCURACY

A64-2685 A64-26855

HUMAN PERFORMANCE IN LONG TESTS OF VIGILANCE USING SIMULATED RADAR SCREEN ESD-TDR-63-320

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK SAM-TDR-64-34 N64-29794

ADAMS, J. J.

TRANSFER FUNCTION OF HUMAN PILOT OPERATING IN
CLOSED LOOP CONTROL SITUATION, USING SINGLE AXIS
AND TWO AXES TESTS, AND COMPARISON OF PILOT AND
A64-166! A64-16652

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION NASA-TN-D-2177

MEASURED VARIATION IN TRANSFER FUNCTION OF HUMAN NASA-RP-206

TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL NASA-TN-D-2394

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE CARI-63-23

MEASUREMENT OF PHYSICLOGIC EVAPORATIVE WATER LOSS CARI-63-25

ADAMSON, T. E. MULTIFILTER SYSTEM FOR WASH WATER RECLAMATION FOR EXTENDED DURATION SPACE VOYAGES, SHOWING IMPORTANCE OF WATER COMPOSITION AIAA PAPER 64-212 A64-18865

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS AIAA PAPER-64-212 N64-21538

ADAMSONS, K., JR. TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLCOD OF HUMAN ADULT AND NEWBORN

A64-81012

ADERMAN, M.
SUPLIMINAL PERCEPTION - LEARNED RESPONSES TO
TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS
SYSTEM RESPONSE CAPACITY
A64-80571

ADES, H. W.
SPINAL MCTOR RESPONSE TO ACOUSTIC STIMULATION IN
LIGHTLY STRYCHNINIZED CAT
A64-80962

SPINAL MCTOR RESPONSES TO AUDITORY STIMULI
NASA-CR-58548 N64-28833

ADEY, W. R.
EFFECTS OF GRAVITY ON CENTRAL NERVOUS SYSTEM,
SPECIFICALLY EFFECTS OF ACCELERATION AND VIBRATION
A64-24970

CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE CURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS
NASA-CR-55689 N64-16324

CEMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIBTHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

ELECTRCENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL STUDIES OF BRAIN FUNCTION AND BEHAVIOR AFCSR-64-1195 N64-30465

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPDLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NSA-CR-59001
N64-33041

ADLER, H.
RACIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS
BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM
A64-80324

ADLER, H. F.
ETIOLOGY OF DYSBARISM - DECOMPRESSION SICKNESS
AD-601600 N64-32400

ADLHOCH, R. W.

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM
TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE
AIAA PAPER 64-393

A64-21862

ADOLPH, E. F.
BODY WATER BALANCE AS AFFECTED BY WATER INGESTION
A64-80548

AFANASEV, D. V.
MINIMUM ARTIFICIAL GRAVITATIONAL FORCE NEEDED FOR
NORMAL POSTURE AND MOTOR ACTIVITY, USING ALBINO
RATS AND MICE
A64-25584

AFANASYEV, D. V.
MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT
EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS
N64-23750

AFANASYEV, G. G.
BICLOGICAL ACTION OF IONIZING RADIATION
JPRS-20375
N64-12895

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS

N64-12896

AFTANAS, M.
TACTUAL ACUITY CHANGES AND INTERLIMB TRANSFER
FOLLOWING OCCLUSION OF CIRCUMSCRIBED AREA OF SKIN
A64-80796

AGADZHANIAN, N. A.
HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS
SYSTEM FUNCTION DURING RELATIVE SENSORY
DEPRIVATION
A64-80235

AGADZHANYAN, N. A.

TYPES AND METHOD OF ATTACHING ELECTRODES IN
RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS

N64-11710

AGATOVA, A. I.
INTERACTION OF FREE RADICAL FROM INHIBITORS OF
ENZYMES WITH PROTEIN SULFUR COMPOUNDS
N64-10854

AGHEMO, P.
MAXIMUM OXYGEN CONSUMPTION OF SUBJECTS PERFORMING
THE STEP TEST
A64-80251

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO OXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING PHYSICAL EXERCISE A64-81093

OXYGEN CONSUMPTION AND RELATION TO HEART RATE DURING EXERCISE AT HIGH ALTITUDE

A64-81231

AGNEW, H.
REACTION TIME AND SERIAL RESPONSE EFFICIENCY ON
ARGUSAL FROM SLEEP
A64-80572

AGOSTONI. E.
ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG
VOLUMES
N64-17927

VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY
SYSTEM AIRFLOW N64-17928

AGRE, A. L.
SELF-PURIFICATION OF CESIUM 137 FROM WATER IN
WEAKLY RUNNING RESERVOIRS N64-29033

AGRESS, C. M.
TIMING AND WAVEFORM VARIATIONS OF VIBROCARDIOGRAMS
FROM MULTIPLE POSITIONS ON PRECORDIUM

A64-22816

VIBROCARDIOGRAM VARIATIONS OVER PRECORDIUM AND SOUND TRANSMISSION RATE A64-80689

TESTING HEART FUNCTION BY ANALYSIS OF ITS
PRECORDIAL VIBRATION SPECTRUM
NASA-CR-53818 N64-19313

MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION
TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG
N64-21346

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM -TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412

AGREST, AADENOSINE TRIPHOSPHATE IN BRAIN OF RAT EXPOSED TO
CHRONIC HYPERCAPNIA
A64-80100

AHMED, S. U.

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY
GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN
ALBINO RAT
N64-25312

AIKAS, E. THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT AMRL-TOR-63-86 N64-12216

AIKEN, L. R., JR.

REACTION TIME TO REGULARLY RECURRING VISUAL
STIMULI
A64-80583

VISUAL REACTION TIME RELATED TO EXPECTANCY OF STIMULUS A64-81151

AILON, E.
TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MANMACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT
AIAA PAPER 64-421
A64-20783

AKAGI, J. M.
ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL
FUEL CELL REACTIONS
N64-19311

AKERLOF, G. C.
SYNTHESIS OF CARBOHYDRATES FROM THE CARBON DICXIDE

AND WATER PRESENT IN A CLOSED CIRCUIT RESPIRATORY SYSTEM TRAVELING THROUGH SPACE AIAA PAPER 63-143 A64-18468

REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM

N64-11801

AKHLEBININSKIY, K. S.
PREBLEM OF SUPPLYING SPACECREM WITH FOOD OF ANIMAL N64-11672

AKHLIBININSKIY, B. V. CYBERNETICS JPRS-23132

N64-14536

AKHMEDDY, K. YU.
HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE N64-10516

AKIYAMA. CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL EXERCISE IN LOW PRESSURE ENVIRONMENT A64-19173

RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL EXERCISE AT SIMULATED ALTITUDE A64-8 A64-80157

AKOYEV, 1. G.
LOWERING THE IMMUNOBIOLOGICAL RESISTANCE OF ORGANISMS AS MANIFESTATION OF IRREVERSIBLE COMPONENT OF RADIATION SICKNESS JPRS-19152 N64-11127

AKOYUNOGLOU, G.
MAGNETIC FIELD EFFECT ON ACTIVATION OF
CARBOXYDISMUTASE, CATALYTIC ENZYME IN PHOTOSYNTHESIS

A64-18377

HYGIENE & SANITATION - EFFECT OF LOW CONCENTRATION OF FLUCRINE, SANITARY INDICES FOR MATER RESERVOIR, AND AIR IONIZATION JPRS-19067

AKULINICHEY, I. T.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT A64-25580

RADIOTELEMETRY IN BIOLOGICAL EXPERIMENTS ON VOSTOK III AND VOSTOK IV FLIGHTS

A64-80639

ELECTROCARDIOGRAPHIC FUNCTIONS IN CLINICAL MEDICINE OF HUMAN BODY ELECTRIC FIELDS JPRS-19030 N64-11123

TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS N64-11710

BICLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BICLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062

APPLICATION OF RADIOTELEMETRY TO AEROSPACE N64-30235

MERS, W. R. ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL AVIATION ACCIDENTS A6 A64-19138

ALBERTINSKIY, B. I.

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN RELAXANT CAT UNDER ACTION OF BARBITUATES AND MUSCLE A64-80365

ALBRECHT, T. W.
MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR
CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS ASD-TDR-63-242 N64-19892 ALBRIGHT, G.
BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021 N64-25950

ALBRIGHT, G. A.
BIOMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH
STUDIES OF F-105 PILOTS A64-80094 A64-80094

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETWEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH A64-13511

ALEKSANDROV. A. COSMONAUT TRAINING FTD-TT-64-66

N64-23098

ALEKSANDROV, I. V.
AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE FLIGHT USE

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA N64-23776

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS

ALEKSANDROV, S. N.
EFFECT OF IRRADIATION ON BIOLOGICAL SUBSTANCES POST-BURNING CHANGES IN METABOLISM JPRS-22022 N64-10856

LEUKOSIS IN MICE DUE TO IONIZING RADIATION N64-12724

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION N64-12888

ALEKSANDROVA, I. V.
CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR
MEASURING PHOTOSYNTHESIS INTENSITY OF CHLORELLA A64-25610

AUTCMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BIOLOGICAL AIR REGENERATION SYSTEM A64-25613

ALEKSANDROVA, M. D. SPATIAL PERCEPTIONS AS FACTOR IN HUMAN CAPACITY FOR WORK

ALEKSANDROVSKIY, YU. A.
PSYCHOPHARMACOLOGICAL COMPOUNDS - CLASSIFICATION, SYNONYMS, OFFICIAL NAMES, CHEMICAL STRUCTURE, USE, DOSAGE, AND NOTES ON EFFECT JPRS-22042 N64-11269

ALEKSEYENKO, N. YU.
INTERRELATIONSHIPS AMONG CONDITIONED RESPONSES IN ANIMALS AND HUMANS FTD-TT-64-282/1&2 N64-30156

COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS N64-12527

ALEKSEYEV, N. G.
ALGORITHMIC APPROACH TO ANALYSIS OF LEARNING
N64 N64-30324

ALEKSEYEV, S. M.
EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE,
PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT
N64-298

INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC ORGANS IN MICE N64-11677

ACUTE RADIATION SICKNESS IN MAN FTD-TT-63-558/1&2 N64-21645 ALENINA, L. G.
BICMEDICAL EVALUATION OF BURN SHOCK AGAINST
BACKGROUND OF RADIATION EFFECT N64-10009

ALEXANDER. A.

SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY

SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL

STERILIZATION BY ETHLENE OXIDE

A64-80463

ALEXANDER, J. K.
PULMONARY FUNCTION, OXYGEN CONSUMPTION AND PULSE
RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE
A64-80728

ALEXANDER, M.
STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA
FOR SIZING OF PROTECTIVE CLOTHING
AMRL-TDR-64-66 N64-31842

ALEXANDER. P.
MECHANISM OF ACTION OF RADIATION PROTECTIVE
CHEMICALS
AD-439592
N64-26633

ALEXANDER, W.

NOISE - PHYSICAL CHARACTERISTICS AND AUDITORY AND
NONAUDITORY EFFECT
A64-81228

ALEXANDER, W. D.
TOTAL FASTING EFFECT ON IDDINE METABOLISM IN MAN
A64-80607

ALGRANTI, J. S.
PILOT REACTION TO HIGH SPEED ROTATION
NASA-RP-133
N64-15841

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 N64-29206

ALLAIN, Y.

THCRACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN
SELECTION AND PERIODIC EXAMINATION OF MILITARY
FLYING PERSONNEL IN FRANCE

A64-80303

ALLAXHVERDYAN, M. A.
EFFECT OF IONIZING RADIATION ON RETINA AND OTHER
PHCTOSENSITIVE SYSTEMS
FTC-TT-63-163/18264

N64-22343

ALLEBACH, N. W.

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR
ELECTRECARDIOGRAPHIC MEASUREMENTS
AD-412814

N64-16567

ALLEN, J. L.

BEHAVICE OF BACTERIA UNDER SIMULATED MARTIAN
CONDITIONS AND POSSIBLE EFFECTS ON EXTRATERRESTRIAL LIFE

A64-24948

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT NASA-TM-X-50873 N64-22777

ALLEN. J. P.
LABORATORY DEVICE FOR CLOSED AIR LOOP ANALYSIS OF
CARBON DIOXIDE REMOVAL AGENTS
FOL-TDR-64-67, PT. I N64-31927

ALLEN, J. R.
PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL
PHENOMENA A64-80260

ALLEN, M. B.
PIGMENTS FOUND IN PHOTOSYNTHETIC MICROORGANISMS,
AND ELECTRON SPIN RESONANCE SIGNALS
AD-602394
N64-32295

ALLEN, M. E.
ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN
LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR
STIMULATION, & CORIOLIS EFFECTS

N64-10432

ALLISON, W. S.
PREPARATION, SEDIMENTATION, ELECTROPHORETIC
PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY,

AND CRYSTALLIZATION OF TRIOSE PHOSPHATE
DEHYDROGENASE N64-32048

ALLUISI, E. A.
CUTANEOUS COMMUNICATION SYSTEM FOR TRANSMITTING
LINGUISTIC INFORMATION A64-80019

VIGILANCE PERFORMANCE INFLUENCED BY THREE DIFFERENT TYPES OF KNOWLEDGE OF RESULTS

A64-80589

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION INPUT A64-80618

HUMAN GROUP PERFORMANCE DURING CONFINEMENT ER-6024 N64-15747

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63 N64-31827

ALNUTT, R.
PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL
MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN
PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/ N64-13872

ALPERN, M.
PUPIL RESPONSES TO LIGHT FLASHES VARYING IN
DURATION AND INTENSITY A64-12928

ALSTON, W.

ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL

MUSCLE IN HUMAN

A64-80966

ALTLAND, P. D.

BLOOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF
RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET

A64-81321

ALTUKHOV, G. V. STATOKINETIC STIMULI EFFECT ON FUNCTIONS OF HUMAN ORGANISMS A64-25594

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS N64-23760

AMAR, J.
HUMAN BEHAVIOR N64-24342

AMBLER, R. K.
VESTIBULAR DISORIENTATION DUE TO CORIOLIS
ACCELERATION
NASA-CR-55784
N64-16331

AMENTA, J. S.

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC
STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS
DERIVATIVES IN RATS

N64-28947

AMER, N. M.

MAGNETIC FIELD INFLUENCE ON RADIATION EFFECT IN
INSECT WING DEVELOPMENT N64-15207

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

AMMANN, E. C. B.

UTILIZATION OF URINARY NITROGEN BY CHLORELLA
PYRENOIDOSA FOR BIOLOGICAL REGENERATION SYSTEM
FOR LONG TERM SPACE FLIGHT

A64-80828

UTILIZATION AND METABOLISM OF PURINES AS NITROGEN
SOURCE FOR CHLORELLA PYRENOIDOSA
A64-80945

AMMONS, C. H.
PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL, AUDITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

MOTOR SKILLS BIBLIOGRAPHY A64-81138

BIBLIOGRAPHY OF AUDITORY AND VISUAL PERCEPTION

A64-81149

AMMONS, R. B.
PERCEPTUAL-MOTOR SKILLS - BIBLIOGRAPHY

A64-80708

PERCEPTION BIBLIOGRAPHY WITH REFERENCES TO VISUAL, AUCITORY, TIME, GUSTATORY, AND TACTILE PERCEPTION A64-80710

PCTCR SKILLS BIBLICGRAPHY

A64-81138

EIBLICGRAPHY OF AUDITORY AND VISUAL PERCEPTION
A64-81149

AMORELLI, D.
RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY
AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS
A64-2263

PREBLEPS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PRETECTION OF SPACECREW A64-B0868

ANANIYEV, B. G.
SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE,
LEARNING, AND WORK ACTIVITY
NASA-TT-F-164
N64-25132

MECHANISM CF SPATIAL PERCEPTION AND SYNERGETIC ACTIVITY OF CEREBRAL HEMISPHERES

N64-25133

ANANYEV, V. M.

SYSTEM FCR VISUAL DISPLAY AND PHOTOGRAPHIC
RECORDING OF MULTIPLEXED SIGNALS FROM MULTICHANNEL
ELECTRCENCEPHALOGRAPH
FTC-TY-63-119C/16284

N64-26212

SERSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782

ANDERKAN, B.
METHODS OF TESTING & MEASUREMENT OF NONORGANIC
HEARING IMPAIRMENT
AD-425085
N64-13615

ANDERS, E.
NATURE CF CRGANIZED ELEMENTS IN ORGUEIL AND
IVUNA PETECRITES A64-80449

CRIGIN OF CARBONACEOUS CHONDRITES AND EXTRATERRESTRIAL LIFE A64-80450

X-RAY IRRACIATION EFFECTS ON WORK CAPACITY AND LIFESPAN CF DDGS UCC-472-109

EFFECT OF STRONTIUM 90 AND RADIUM 226 ON BEAGLE UCD-472-110 N64-26043

ANDERSEN, H. T.
THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE
COLD EXPOSURE AT NIGHT
AAL-TDR-62-44
N64-13645

ANDERSEN, T. W.
ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD
CIRCULATION AND HEART FUNCTION IN MAN

A64-80319

ANDERSON, A. A.
SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE
IN URINARY RIBOFLAVIN OF HUMAN A64-80876

ANDERSON, A. C.
X-RADIATION EFFECTS ON LIFESPAN, & CARDIOVASCULAR
AND REPRODUCTIVE SYSTEMS OF DOG
UCD-107
N64-12113

ANDERSON, B.

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL CORTEX IN GOAT

A64-B1226

ANDERSON, D. A.
PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE
PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM

MANUALLY CONTROLLED VEHICLES

A64-23300

ANDERSON, D. C.
AUDITORY AUTOKINETIC EFFECT SHOWN INDEPENDENT OF
TONE FREQUENCY AND INTENSITY
A64-81306

ANDERSON, D. R.
CHRONIC IRRADIATION EFFECTS ON LONGEVITY AND
PERIPHERAL BLOOD ELEMENTS OF MONKEYS
SAM-TDR-63-55
N64-13078

ANDERSON, E. C.
PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE,
COMPOSITION AND OXYGEN CONSUMPTION

A64-12995

ANDERSON, J. E.
SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC
EFFECTS OF SHORT DURATION HYPEROXIA

A64-19136

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION
HYPEROXIA
SAM-TDR-64-6
N64-1891

ANDERSON, J. N.
MECHANICAL ENERGY CONVERSION AND CONTROL EQUIPMENT
SHOWING HUMAN LEARNING AS CONTRIBUTION TO
RELIABILITY

A64-22637

ANDERSON, W. L.
CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND
MERCURY SEACECRAFT ATMOSPHERES N64-24608

ANDERTON, J. L.
VENTILATORY RESPONSE TO EXCESS CARBON DIOXIDE AND
HYPCXIA AND RELATION TO DRUG EFFECT

A64-81229
ANDO, S.
ACCLIMATIZATION AND OTHER EFFECTS OF ANOXIA VIA

EEG, HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS OF THE VISUAL CORTEX OF RABBITS

HYPCXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX

ANDREEV, L. F.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

ANDREMS, D. P.
PERCEPTUAL MECHANISMS AIMED AT ERROR-CORRECTION
A64-80471

ANDREWS, E. E.
PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL
COOLING, GIVING OBSERVATIONS MADE ON RATS AND
HUMANS
A64-14005

ANDREMS, G. A.
RADIATION MEDICINE - RADIATION EFFECTS, LIPID
METABOLISM, IMMUNOLOGY, AND DIAGNOSIS
ORINS-43
N64-16945

ANDREWS, I. C.
ENVIRONMENTAL CCLD AS RELATED TO METABOLISM,
RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS
SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN
A64-80879

ANDREWS, R. S., JR.
CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION
ASSIMILATION FROM VISUAL DISPLAYS
USAPRO-TRN-145
N64-29947

BIOLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

ANDREYEV, V. I.

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS
USING RADIOACTIVE ISOTOPES

N64-30395

ANDREYEVA-GALANINA, YE. TS.
PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS

SYSTEM CAUSED BY VIBRATION

N64-10781

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS

N64-18330

ANGELAKOS. E. T. CARDIOVASCULAR PHYSIOLOGY UNDER HYPOTHERMIA A64-80162

ANGELO, V. D.
HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT A64-80670 AFTER BENZENE POISONING

BENZENE POISONING IN RABBIT AND CHANGES IN IMMUNIZATION AND TYPHOID ANTIBODY LEVEL 464-80671

ANGELONI. E. TUBERCULOSIS IN AIR FORCE PERSONNEL AND MEDICO-A64-81160 LEGAL ASPECTS

ANGELOV. A. REACTION TIME AS FUNCTION OF INTERVAL BETWEEN TWO A64-80347 CONSECUTIVE SIGNALS

REACTION TIME AS FUNCTION OF RELATIVE SIGNAL A64-80364

ANGER, H. O.
POSITRON SCINTILLATION CAMERA FOR DETECTING REAL
AND SIMULATED BRAIN TUMORS
N64-152 N64-15215

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON ISOTOPE AND POSITRON SCINTILLATION CAMERA N64-22853

SCINTILLATION CAMERA WITH LARGE SODIUM IODIDE CRYSTAL FOR OBSERVING POSITRONS AND GAMMA N64-22858 RADIATION EMITTED BY ISOTOPES

ANGHILERI, L. J. SILVER CHLORIDE & IODIDE AS SEQUESTERING AGENTS N64-30036 FOR RADIOACTIVE IODINE

EFFECT OF CULTURE MEDIUM PH ON DEVELOPMENT OF CHLORELLA AND METABOLISM OF CARBON 14 ABSORBED IN N64-33495 CARBON DIOXIDE BY CHLORELLA

ANGIBOUST, R. ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS A64-13753 OF WEIGHTLESSNESS

BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT A64-26917

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION

ACTION MECHANISM OF MEDICINAL SUBSTANCES ON HUMAN CELLS AND TISSUES AND TREATMENT OF ENSUING ILLNESS JPRS-22292

"ANISKIN, E. D.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

A64-25

ANNETT, J. CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY DETECTION TASKS NAVTRADEVCEN-3143-1 N64-22518

AUTOMATIC CONTROL APPARATUS IN CYBERNETICS N64-12514

PATHOGENESIS OF HIGH-ALTITUDE EMPHYSEMA WITH AND A64-81158 WITHOUT PRESSURE BREATHING

ANSPAUGH, L. R. X-RAY SPECTROGRAPHY OF LEVELS OF CHEMICAL ELEMENTS IN BLOOD SERUM

UCRI - 10873

N64-15242 *

ANTIPOV, V. V.
CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND A64-13798 CYTOLOGICAL ORGANISMS

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT A64-17074

ORGANIC CHANGES PRODUCED ON MICROSPORES TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT A64-18575

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING COSMIC RADIATION EFFECTS ON GENETIC CHARACTERISTICS OF PLANT SEEDS, CELLS AND FRUIT A64-18630

WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON REPRODUCTION IN DROSOPHILA MELANDGASTER AND HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA A64-18673

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS CONDUCTED DURING FLIGHTS OF VOSTOK III AND A64-23667 VOSTOK IV

CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III AND IV

BIOLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION A64-25578 METHODS

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND A64-80911 PROBLEMS OF PROTECTION

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL N64-10514

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF N64-11679 MICE

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11: N64-11687

RADIATION SICKNESS JPRS-19996

N64-12801

EFFECT OF TRYPTAMINE ON FORMATION OF HEMORRHAGES IN IRRADIATED MICE N64-12802

EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

N64-21643

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS N64-22936 NASA-TT-F-8823

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT NASA-TT-F-8825

N64-23042

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091

ANTONIJEVIC. M.
TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION NIJS-R-422 N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG NIJS-R-423 N64-21049

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS NIJS-R-421

ANTONOV, V. N.
LABORATORY APPARATUS FOR VISUAL SIGNALLING
INVESTIGATION OF MOTOR REACTION EFFECTIVENESS N64-30323

ANTOPOL. W.
BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER
EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION
A64-R068 SICKNESS IN MICE A64-80687

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/16264

N64-23335

ANZANI, A.

TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS RSIC-87

APANASENKO, Z. I.

VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE

FUNCTIONAL STATE OF ORGAN OF EQUILIBRIUM IN WHITE MOUSE GROWN WITH DAILY EXPOSURE TO ACCELERATION

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN GUINEA PIGS

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS

NASA-TT-F-9025

N64-27138

APPENZELLER, Q.
ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS
RELATED TO REFLEX VASODILATATION PRODUCED BY
RADIANT HEATING OF TRUNK
A64-80998

APT. F. S.
IONIZING RADIATION EFFECT ON MICROFLORA IN MEATS AND FOOD - BOTANY JPRS-24187 N64-18968

AQUINTO, S. G.
ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES
INDUCED BY ELECTRICAL STIMULATION OF MUSCLE
AFFERENTS DURING SLEEP AND MAKEFULNESS IN CAT
A64-A64-81066

AREFEVA, T. A.
HYPOXIA AND HYDROSTATIC PRESSURE EFFECTS ON
CONDITIONED REFLEXES IN FISH A64 A64-81288

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS JPRS-23678 N64-16694 ARKHIPOV. A. S. MAXIMUM PERMISSIBLE CONCENTRATIONS OF NEW CHEMICAL GASES, VAPORS, DUSTS, AND AEROSOLS ALLOWING FOR INDUSTRIAL HYGIENIC SAFETY FROM TOXIC SUBSTANCES

ARLASHCHENKO, N. I.
REACTIONS TO ACCELERATION
JPRS-21908

3

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

ARMSTRONG, N. E.
SELF-MAINTAINING PHOTOELECTRIC CELL OF BLUE-GREEN ALGAL MAT AND BACTERIA AS LAYERED ECOSYSTEM IS EXAMINED FOR ELECTRICAL AND ORGANIC POTENTIAL A64-14152

ARNAUTOV. A. K.
TOXICITY OF RAT BLOOD PLASMA DURING RADIATION SICKNESS N64-12783

ARNFRED, EVALUATION OF PRIMARY COURSE OF AEROSPACE MEDICINE AND ENGLISH LANGUAGE COURSE FOR FOREIGN FLIGHT A64-81086

ARNOLD, K.

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING
HYPERTHERMIA OF HEAD OR WHOLE BODY A64-80195

ARNOLDI. I. A. ACCLIMATIZATION OF MAN TO FAR NORTH AND SOUTH JPRS-21481 N64-10597

ARRIAGA CANTULLERA, J. M.
EYE DISEASE IN CONSIDERING SELECTION OF FLIGHT PERSONNEL A64-25007

ARSENESCU. G. CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE WITH AND WITHOUT PRESSURE SUIT A64-28457

EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679

ARTEMENKO, D. P.
ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES

ARTEMEY, N. S. GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

HUMAN BEHAVIOR UNDER STRESS-COMBAT EXPERIENCE LEADING TO SOCIAL PSYCHIATRY A64-A64-80017

ARUTYUNYAN, N. P.
CULTIVATION OF UNICELLULAR GREEN ALGAE TO OBTAIN
PROTEIN RICH BIOMASSES JPRS-17433 N64-10476

ASHBY, W. R.
COMPUTATIONAL PRINCIPLES IN LIVING ORGANISMS,
COVERING PARALLEL NETWORKS WITH UNALTERABLE
INTERNAL STRUCTURE AND DYNAMICALLY ADAPTIVE SYSTEMS A64-24405

COMPUTATIONAL PRINCIPLES OF LIVING ORGANISMS AND RELATION TO ELECTRONIC HARDWARE

A64-80489

INFORMATION THEORY - LOGIC OF MECHANISM AND THEORY OF SIMPLIFICATION - BIONICS

N64-18828

ASHE. W. F. DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON

PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER
A64-8081

ASHIKAMA, J. K.
COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED
MICE
N64-15203

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS

N64-22866

ASKREN, M. B., JR.
BIBLIOGRAPHY ON MAINTENANCE PERSONNEL PERFORMANCE
MEASUREMENT
AMRL-MEMO-P-45
N64-30500

ASMUSSEN, E.

NERVOUS FACTORS CONTROLLING RESPIRATION AND
CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF
BLOOD FLOW

A64-80957

ASTASHENKOV, P. T.
BIONICS - SELF-ADAPTIVE SYSTEMS, COMMUNICATION,
AND CONTROL IN ANIMALS & ELECTRONIC MACHINES
JPRS-25494
N64-26257

ASTRAND, P.-O.
STRENUOUS EXERCISE AND WORKING CONDITIONS AND
EFFECT ON BLOOD PLASMA AND RED CELL VOLUME
A64-81018

ASYAMOLOV, 8. F.
SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS
UNDER INCREASED GRAVITY OF ACCELERATION
N64-11523

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF MEIGHTLESSNESS AND INCREASED ACCELERATION STRESS N64-23661

ATCHLEY, W. R. FAULT ISOLATION PRESENTATION AMRL-TDR-64-57

N64-31944

ATKINSON, J. N. C.
GLUCOSE AND CARBOHYDRATE METABOLISM IN
ANOXIC-ISCHAEMIC RAT BRAIN
A64-81048

ATKINSON, R. C.
JUDGMENT OF VISUAL AND AUDITORY SIGNAL DURATION
A64-80849

ROLE OF FEEDBACK IN PERCEPTION OF TONES WITH AND WITHOUT BACKGROUND GAUSSIAN NOISE

A64-80857

ATTAR, S.
EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN
THE HUMAN A64-80084

ATUTOV, P. R.
MATHEMATICAL AND CYBERNETIC METHODS APPLIED TO
PENAGOGY
N64-15167

AUBRY, M.
PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS,
AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD
PURE TONES
A64-81161

AUDLEY, R. J.
DECISION-MAKING PROCESSES CONSIDERED WITHIN
DIFFERENT THEORETICAL FRAMEWORKS

A64-80380

AUERBACH, S. I.
CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS
LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION
ORNL-3531
N64-14442

AUSTIN, J. W.
DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS
N64-25313

AUSTIN, R. C.
PULMONARY FUNCTION, OXYGEN CONSUMPTION AND PULSE
RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE
A64-80728

AUSTIN, W. H.

PH-TEMPERATURE CONVERSION FACTOR AND CARBON
DIOXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL
ADULTS

A64-81010

AUXIER, J. A.
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK &
COBALT 60 SOURCE OPERATION IN BREN PROJECT
CEX-6203 N64-10408

AVERY, M. E.
SPACE FLIGHT STRESS ANALOGIES TO THAT IN THE FETUS
AND DURING ADAPTATION AT BIRTH
A64-80205

AXELROD, F. S.
NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM
FUNCTION, AND OPTICAL PHENOMENA
N64-17885

AXELROD. I.

BIOMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH
STUDIES OF F-105 PILOTS A64-80094

AXENOFF, W.
INFLUENCE OF WATER INGESTION AND THIRST ON
STARVATION METABOLISM
NASA-TT-F-9106
N64-33391

AYER, H. E.
AIRCRAFT NOISE AT AIRPORTS - EFFECT ON NEARBY
COMMUNITIES AND ON WORKING ENVIRONMENT OF AIRPORT
PERSONNEL
A64-80369

AYRAPETYANTA, M. G.
MOBILITY RESPONSES IN ANTENATALLY IRRADIATED DOGS
AT VARIOUS AGES - SENSORY STIMULATION
N64-11524

AYRAPETYANTS, E. SH.

MECHANISM OF SPATIAL PERCEPTION IN BEHAVIOR OF
ANIMALS & PATHWAYS AND STRUCTURE OF SPATIAL
ANALYSIS
N64-25134

IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL HEMISPHERES TO SPATIAL PERCEPTION

N64-25135

AYZERMAN, M. A.

APPLICATION OF COMPACTNESS HYPOTHESIS TO VISUAL
IMAGE RECOGNITION BY GENERAL-PURPOSE DIGITAL
COMPUTER
JPRS-18126
N64-10

AUTOMATIC TEACHING MACHINE FOR VISUAL
PERCEPTION - CYBERNETICS N64-12524

AZIZOVA, D. A.

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC
CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA
RADIATION
JPRS-23983
N64-18138

ELECTRON PARAMAGNETIC RESONANCE SPECTRA OF AMIND ACID & PROTEIN UNDER ULTRAVIOLET LIGHT

AZURIN, J. C.
DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN
TROPICAL AREAS A64-81317

В

BAARLI, J.
RADIATION HAZARDS IN SYNCHROCYCLOTRON BEAMS AND
NEAR BEAM ZONES
NASA-TT-F-9136
N64-33402

BABIC, I.

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY
MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD
A64-80954

BABINSKY, A. D.
CARBON DIOXIDE CHEMICAL REDUCTION UNIT FOR
CONTINUOUS ZERO GRAVITY OPERATION
NASA-CR-54060 N64-20679

BABSKII, E. B.
UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN

STUDY OF ACIDITY OF DUODENAL CONTENT

A64-81021

USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

BABSKIY, YE. B.
RADIATION DAMAGE TO OVARIES, AND ELECTRICAL
STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045 N64-10453

INFORMATION PROCESSING OF PHYSIOLOGICAL DATA FOR FUNCTIONS OF ENTIRE ORGANISM - CYBERNETICS

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES FTD-TT-63-1191 N64-24324

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH NASA-TT-F-205 N64-25206

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

KEROSENE AND OTHER HYDROCARBON POISONING IN RATS

A64-B0001

BABYAN, E. A.
ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES
JPRS-23446 N64-15914

BACHRACH, D. L.
SEX DIFFERENCES IN REACTIONS TO DELAYED AUDITORY
FEEDBACK A64-80704

BACHU, I.

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON
EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER
DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

A64-B0752

BACK, K. C.

PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS,

PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF

ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION

A64-1025

ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR IN JAVA MONKEY A64-80335

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE
N64-24616

PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND RATS

N64-29938

BACK, K. W.
PHYSIOLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER
STRESS AND DEPRIVATION
A64-81176

BADDELEY, A. D.
VIGILANCE DECREMENT AS FUNCTION OF PRETEST
EXPECTANCY
A64-80938

BAER, D. J.
STEREOTYPED IMAGE OF MILITARY PILOT EXPLORED IN
RELATION TO PHYSICAL CHARACTERISTICS APPARENT ON
PHOTOGRAPHS
A64-81182

SET AND SHOCK-STRESS EFFECT UPON ILLUSION PERCEPTION IN HUMAN A64-81183

BAEVSKII, R. M.
REACTION OF CARDIOVASCULAR SYSTEM OF MEN AND
ANIMALS UNDER CONDITIONS OF WEIGHTLESSNESS ONBOARD
U.S. AND U.S.S.R. SPACECRAFT A64-18574

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIDLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT A64-25580

INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION MODELS A64-25605

RADIOTELEMETRY IN BIOLOGICAL EXPERIMENTS ON VOSTOK III AND VOSTOK IV FLIGHTS

BAGLEY, M. P.
OXYGEN CONSUMPTION DURING BAILOUT BETWEEN 45,000
AND 15,000 FEET A64-14014

BAGRAMYAN, E. R.
EFFECT OF ANESTHESIA ON STRESS REACTION OF RAT
PITUITARY AND ADRENAL GLANDS N64-31344

BAHRICK, H. P.

OPERATOR DECISION PERFORMANCE COMPARED FOR
PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF
OBJECT LOCATION

A64-24128

BAIKOV, A. E.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIDLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FIIGHT
A64-25580

BAILEY, D. T. INFLUENCE OF HYPOXIA ON VARIOUS PATHOLGGICAL CHANGES - HYPOXEMIC LESIONS N64-14598

BAILLIE, W. J.
FORMS OF SOIL BIDTIN N64-15803

BAISER, M. PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE, AGE, AND SEX IN ADULT HUMAN A64-80051

BAJER, A.
ELECTROENCEPHALOGRAPHIC DEMONSTRATION OF
ORTHOSTATIC SYMPTOMS A64-80748

BAKALSKA, V.

REACTION TIME AS FUNCTION OF INTERVAL BETWEEN TWO
CONSECUTIVE SIGNALS

A64-80347

REACTION TIME AS FUNCTION OF RELATIVE SIGNAL FREQUENCY A64-80364

BAKAY, L.

10N EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING
HYPOXIA
N64-14588

BAKER, B. L.
PORPHYRINS FOUND IN THE ORGUEIL METEORITE AND
THEIR RELATION TO THE ORIGIN OF LIFE

A64-80348

BAKER, C. A.

OPINIONS SURVEY OF MEMBERS OF HUMAN FACTORS
SOCIETY ON ADEQUACY OF HUMAN FACTORS REFERENCE
WORKS, USING QUESTIONNAIRE

A64-22079

BAKER, C. H.

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION
PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2
N64-20409

BAKER, D. F.
AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE
CONTROL HANDLING TASKS
AMRL-TOR-64-46
N64-27433

BAKER, J. D.
SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND
MESSAGE ITEMS
ESD-TDR-64-254 N64-19670

BAKER, N. A.
HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING
IN COLD WATER A64-81319

BAKHRAMOV, A. M.
SPACE CABIN FOR HOUSING ANIMALS DURING SPACE
FLIGHT
N64-11689

BAKINOVA, L. G.
LITERATURE REVIEW OF TELEVISION MICROSCOPY IN
BIOLOGY AND MEDICINE

JPRS-18229

N64-10501

BAKLANOV, O. G.

AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING TRANSITION PROCESSES DURING GROWTH OF CULTURES A64-25615

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

BALABAUD, J.-M.

MEDICAL ASPECTS OF EJECTIONS FROM MIRAGE III AIRCRAFT A64-80768

BALABUKHA, V. S.

CHEMICAL PROTECTION OF THE BODY AGAINST IONIZING RADIATION

REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775 N64-10456

BALAKHOVSKIY, 1. S.
PROVIDING FOOD AND WATER FOR DOGS DURING SPACE

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT

BALDES, E. J.
PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TDR-63-106 N64-16808

BALDWIN. H.

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

N64-17885

PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS A64-80814

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM

TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE A64-22057

HIGH ALTITUDE EFFECTS ON QUALITATIVE AND QUANTITATIVE CHANGES IN MANS WORK CAPACITY

A64-23259

HUMAN TOLERANCE TO SPACE FLIGHT STRESSES

A64-80105

PHYSIOLOGICAL RESPONSES OF NORMAL AND PATHOLOGICAL SUBJECTS TO MODIFIED WORK CAPACITY TEST

464-80387

AGE IN RELATION TO OXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION

A64-80518

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS A64-80628

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

WORK CAPACITY AS RELATED TO PHYSIOLOGICAL AND CHRONOLOGICAL AGING CARI-63-18 N64-16728

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND

ORTHOSTATIC TOLERANCE CAR 1-63-34

N64-26845

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33

BALKIND, YA. V.
EMERGENCY ABANDONMENT OF AIRCRAFT - CREW RESCUE,
PROTECTIVE EQUIPMENT, AND SURVIVAL EQUIPMENT
N64-298 N64-29857

ATMOSPHERIC MONITORING OF TOXIC LEVELS OF MISSILF

PROPELL ANTS

BALL, L. W.
HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE
FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF
MORAL DISCIPLINE IN WORKMANSHIP

BALLARD, G. E. H.

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC
LIMIT OF COHESIVE SOILS N64-27604

BALLINGER, E. R.
SOLAR FLARES AND SPACE RADIATION

N64-30717

BALNER, H.
BONE MARROW TRANSPLANTATION AFTER WHOLE-BODY IRRADIATION OF RAT EUR-484.E

N64-19296

BANCHERO. W.

FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT DXYGEN A64-80817

BANCROFT, R. W.
TOLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET
A64-80268 WEARING STANDARD OXYGEN MASK

DECOMPRESSION TESTS FOR B-58 ESCAPE CAPSULE SYSTEM

BANDE, J.

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION

464-80016

BANNISTER, T. T.
ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED
ILLUMINATIONS - PHOTOSYNTHESIS RATES

N64-33261

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE THUMINATIONS N64-33456

BARABOY, V. A.

EFFECT OF SODIUM GALLATE ON NUCLEIC ACID CONTENT
OF ORGANS OF HEALTHY AND IRRADIATED RATS JPRS-19355 N64-11217

PREVENTION AND TREATMENT OF ACUTE RADIATION SICKNESS IN DOGS WITH SODIUM GALLATE N64-11349

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTI-OXIDATION PROPERTIES OF VARIOUS POLYPHENOL STRUCTURES - CHEMOTHERAPY JPRS-23567 N64-16543

RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY JPRS-23834 N64-17 N64-17555

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA JPRS-23787 N64-17805

ANTIRADIATION EFFECT OF PROPYL AND SODIUM GALLATES UNDER IRRADIATION OF 1000 ROENTGENS

JPRS-25274

N64-27264

N64-11702

MECHANISMS OF CHEMICAL PROTECTION AGAINST
RADIATION IN LIVING ORGANISMS - RADIOBIOLOGY
JPRS-26842
N64-31313

BARAKINA, N. F.
CELL DAMAGE IN RADIATION REACTION OF ANIMAL
ORGANISM
N64-16906

BARANOV, V. I.

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO
STIMULATION OF VESTIBULAR APPARATUS THROUGH
PASSIVE VERTICAL MOTION OF ANIMALS
JPRS-25896

N64-27323

BARANOVSKAYA, I. V.
PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN
SPACECRAFT ENVIRONMENT DURING FLIGHT

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY DURING SPACE FLIGHT OF MICE N64-11703

BARANOVSKIY, A. L.

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL
STIMULATION OF HEART IN MICE - BIBLIOGRAPHY
JPRS-18045

N64-10453

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF HEART N64-30392

BARANDVSKIY, V. V.

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR
DURING SPACEFLIGHT

N64-10757

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS

N64-11522

A64-80355

A64-81266

BARANY, J.
ORGANIZATION OF RADIATION PROTECTION MEASURES BY
COMMUNITY
N64-29075

BARASHKOV, G. K.
CARBOHYDRATES, PROTEINS, AND LIPID CHEMISTRY OF
BLUE-GREEN ALGAE
FTD-TT-63-193/1
N64-23296

BARATZ, S. S.
PERCEPTION OF RELATIVE SIZE EXAMINED AS SOLE
STIMULUS FOR DISTANCE PERCEPTION

A64-8056

BARBASHOVA. Z. I.
CELLULAR ADAPTATION TO UNFAVORABLE ENVIRONMENTAL
FACTORS
A64-80415

BARBEY, K.

REGULATION OF RESPIRATION AND CIRCULATION THROUGH
OXYGEN TENSION IN MIXED VENOUS BLOOD

BARBOUR, R. D.
BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF
DIMETHYLHYDRAZINE
AMRL-TDR-63-127
N64-16584

BARER, A. S.
ION MIGRATION IN TISSUE OF MAN AND AMIMAL UNDER
HYPOXIA CAUSED BY LOW AMBIENT PRESSURE,
ACCELERATION STRESS AND VIBRATION

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS FTD-TT-63-1095/162 N64-21941

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO ACCELERATION N64-23697

BARLOW, H. B.
BLEACHING OF RETINAL PHOTOSENSITIVE PIGMENTS AND
RELATION TO AFTERIMAGES AND VISUAL THRESHOLDS IN
DARK ADAPTATION
A64-19573

PHYSIOLOGICAL EXPLANATION OF WATERFALL PHENOMENON AND FIGURAL AFTEREFFECTS A64-80194

BARLOW, J. S.
VISUAL-OCULOMOTOR TRACKING IN MAN - CHARACTERISTIC
ELECTROCORTICAL ACTIVITY A64-80494

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

BARNARD, J. R.
D-AMPHETAMINE SULFATE INFLUENCE ON PHYSICAL
PERFORMANCE
A64-80388

BARNES, A. C., JR.
INJURY REDUCTION AND CRASH SAFETY DESIGN IN
AGRICULTURAL AVIATION
A64-19141

BARNES, H. W.

HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN
RELAXANT CAT UNDER ACTION OF BARBITUATES AND
MUSCLE

A64-80365

BARNETT, G. O.

COMPUTATION OF BLOOD FLOW VELOCITY FROM PRESSURE
PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC
FLOWMETER

A64-80259

BARNSTEIN, N. J.
PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED
MONKEY, MACAGE NEMESTRINA, USEFUL FOR LIFE SUPPORT
SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA
BIOSATELLITE PROGRAM
A64-80261

BARONE, T.
EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
NASA-CR-55656 N64-16326

BARR, L.
PUPIL RESPONSES TO LIGHT FLASHES VARYING IN
DURATION AND INTENSITY
A64-12928

BARR, P. O.
TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT
AND MODERATE EXERCISE IN MAN A64-80982

BARRER, L. A.
SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY
NYO-2762
N64-20485

BARRETT, G. V.
TECHNIQUE FOR CONTROLLING SUGGESTION EFFECT DURING
PERFORMANCE OF VISUAL TASK
A64-81215

BARRETT, R.
VIABILITY OF MICROORGANISMS IN SIMULATED SPACE
NASA-CR-59092
N64-33099

BARRLA, D. M.
CHAIR ANGLES, DURATION OF SITTING, AND COMFORT
RATINGS
A64-81193

BARRON, C. I.

ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS ON
HUMAN PERFORMANCE

A64-13999

HYPOXIC EFFECTS ON HEART AND CIRCULATION
A64-80101

BARRY, W.
SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL,
PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE
A64-80861

BARSKIY, I. YA.
ULTRAVIDLET FLUORESCENCE OF AMINO ACIDS IN FROG
MUSCLES
JPRS-19287
N64-11068

BARSUKOV, V. S.

RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST
CELLS AFTER GAMMA RADIATION

N64-12795

OXYGEN EFFECTS ON SURVIVAL AND RESTORATION RATES IN YEAST CELLS DUE TO IONIZING RADIATION - RADIO-BIOLOGY JPRS-23945

BARTELS, H.

REGULATION OF RESPIRATION AND CIRCULATION THROUGH
OXYGEN TENSION IN MIXED VENDUS BLODD

A64-80355

BARTH, D. S.
ALVEOLAR CARBON DIOXIDE EQUILIBRIA IN
BREATH-HOLDING EXPERIMENTS WITH HUMANS

A64-80741

BARTLEY, S. H.
CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS
PHENOMENA A64-81134

BARTON, H. R.
QUEUING MODEL FOR DETERMINING MANPOWER AND
TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21
N64-19101

BARTON, M.

HANDEDNESS AND DIFFERENTIAL PERCEPTION OF VERBAL
STIMULI IN LEFT AND RIGHT VISUAL FIELDS

A64-80202

BARTONICEK, V.

BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND
CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO
CENTIMETER WAVES FOR 24 HOURS

A64-B0715

BASFORD, P. R.
BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY
PRODUCTION
NASA-CR-54051
N64-25906

BASSETT, E. E.
PENTABORANE POISONING AND RELATION BETWEEN LETHAL
AND INCAPACITATING DOSAGES IN MAMMAL

BASSHAM, J. A.

EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN
CHLORELLA N64-19470

BATES, D. V.

PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN
BREATHING LOW CONCENTRATIONS OF OZONE

A64-80742

BATIUK, G.
RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
NASA-CR-53344
N64-17790

BATOV, V. A.

AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL
ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING
TRANSITION PROCESSES DURING GROWTH OF CULTURES

A64-25615

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

BATTEAU, D. W.
ROLE OF PINNA IN HUMAN LOCALIZATION
AD-600151

N64-30491

BAUMANN, X. C.
COMPARISON OF BROADBAND NOISE AND CONTINUOUS
SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS
A64-21334

TEMPORARY HEARING LOSS FOLLOWING EXPOSURE TO PRONOUNCED SINGLE FREQUENCY BROADBAND NOISE A64-80649

BAUMER, J.

ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN

COLD EXPOSURE AND HIBERNATION

A64-80099

BAUMGARTNER, D. J.
DETERMINING POLLUTION OF SURFACE WATERS BY EGGS OF ECHINOCOCCUS
AAL-TDR-63-37
N64-32102

TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED SLUGGE PROCESS AAL-TDR-63-36 N64-32115

BAUST, W.
AUDITORY INPUT DURING SLEEP AND WAKEFULNESS
RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT

A64-B0774

BAXTER, R. C. STRONTIUM 90 TOXICITY IN RAT EMBRYO UR-639

N64-18348

RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE UR-647 N64-20715

BAY, A. H.
ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT
LIFE SUPPORT SYSTEMS
A64-23200

BAYEVSKIY, R. M.
BALLISTOCARDIOGRAPHY - HISTORY, PHYSICAL BASIS,
TECHNIQUE, ANALYSIS, CHANGES DURING ILLNESS, AND
APPLICATION TO OTHER BRANCHES OF MEDICINE
JPRS-18967 N64-1141

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD N64-11701

INTEGRATED PHONOCARDIDGRAPHIC AMPLIFIER FOR TRANSMISSION OF HEART MUSCLE SIGNALS FROM SPACECRAFT N64-11704

PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE OF DOGS DURING SPACE FLIGHTS - PHONOCARDIOGRAPHY N64-11705

SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT N64-11706

ELECTROCARDIOGRAPHIC METHODS AND APPLICATION TO DOG STUDY DURING SPACE FLIGHTS N64-11707

CYBERNETICS IN MEDICINE & PHYSIOLOGY JPRS-22377

N64-11918

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS N64-22941

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698

BIOLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND ANIMALS UNDER WEIGHTLESSNESS N64-29090

APPLICATION OF RADIOTELEMETRY TO AEROSPACE MEDICINE N64-30235

BAYLISS, L. E. FACTORS CONCERNED IN TEMPERATURE REGULATION IN MAN A64-81294

BAYNE-JONES, S.
SMOKING AND HEALTH OF HUMANS N64-13017

BAYNOV, A. YE.
BIOLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

BAYSOGOLOV, G. D.

EFFECT OF PROLONGED & REPEATED IONIZING RADIATION
ON HEMATOLOGIC ORGANS AND BLOOD

N64-11609

CLASSIFICATION OF RADIATION SICKNESS

N64-20948

BAZIKA, V.
EXERCISE TEST TO DEMONSTRATE CORONARY
INSUFFICIENCY
A64-80777

BEAL. G. M. SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES -PUBLIC FALLOUT SHELTERS AD-603125 N64-32529

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY NASA-CR-52607

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE DXIDASE ENZYME NASA-CR-55744

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION NA SA-CR-54051 N64-25906

MECHANICAL TETHERING SYSTEM USING ANGULAR NOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393 A64-21862

BODY WEIGHT AND RESPONSE TIME OF RAT A64-R0844

BEATON, J. R.
PHOSPHORUS METABOLISM IN COLD EXPOSED RAT

A64-80088

BEATTY, D. L.
MIDDLEEAR MUSCLÉ ACOUSTIC REFLEX RESPONSE
HABITUATED IN CAT A64-80385

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE DECOMPRESSION IN SUBJECTS WEARING A FRENCH HIGH-ALTITUDE SUIT A64-80282

DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE A64-80184

BECK, J. S.
ANALYSIS OF DATA FROM BIOCHEMICAL AND
PHYSIOLOGICAL TRACER EXPERIMENTS - LINEAR SYSTEM
N64-191 N64-19152

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE N64-27513

BECK, M.

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

N64-2757 N64-27513

BECK, R. C.
RESTRICTED WATER INTAKE AS RELATED TO WATER
BALANCE AND FOOD INTAKE IN RAT A64 A64-80555

FATIGUE OF AIR CREW AND OTHER PHYSIOLOGICAL SIDE EFFECTS OF JET FLYING A64-194 A64-19489

JET CREW FATIGUE EMPHASIZING EFFECTS OF VISUAL DIFFICULTIES, NOISE, OZONE CONTAMINATION, COLDS AND SMOKING A64-19800

HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

A64-80066

BECKER, F. F. PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS A64-80119

BECKER, M. J.
CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL CELL WALLS IITRI-L6002-4

BECKER, N. H. LYSOMES, MITOCHONDRIA, AND GOLGI APPARATUS ANDXIC NECROBIOSIS CONDUCTED ON RAT LIVER LESION N64-14605

BECKLARE, M. R.
ARTERIAL CARBON DIOXIDE TENSION - EFFECT ON FLOW
RESISTANCE AND MECHANICS OF LUNG IN MAN DURING VOLUNTARY HYPERVENTILATION

BECKMAN, M.
TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT
AND MODERATE EXERCISE IN MAN A64-80982

BEDFORD, A. W.
TEST PILOT - HIS ROLE, PERFORMANCE AND ASSESSMENT
A64-1980 A64-19803

BEDFORD, J. S.
BIOLOGICAL MATERIALS AFFECTED BY MAGNETIC FIELDS OF DIFFERENT STRENGTHS FOR VARYING TIME PERIODS

BEDWELL, T. C., JR.
MEDICINE, AEROSPACE, AND MANNED SPACE FLIGHT

BEEHLER, C. C.

EFFECTS OF HIGH PARTIAL PRESSURES OF DXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/

HIGH OXYGEN ENVIRONMENT EFFECTS ON VISUAL MECHANISMS AND OCULAR PHYSIOLOGY SAM-REVIEW-3-64 N64-26269

BEELER, G. W.
COLDR AND PATTERN PERCEPTION TESTS USING ISHIHARA
CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE

BEEM. D. R. EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-22755

DERFORMANCE OF RAT PROVIDED WITH CONTINUOUS
OPPORTUNITY TO OBTAIN REINFORCING BRAIN STIMULATION N64-17498

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES SAM-TDR-64-37

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN SAM-TDR-64-50 N64-31053

BEETON. D. PHYSIOLOGICAL FACTORS IN THE TRAINING OF AIRCREW IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS

BEHAN, R. A.
PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT -ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM N64-30831

BEHAR, V. S.

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED DXYGEN PARTIAL PRESSURE AND NITROGEN A64-22053

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

BEHNKE, A. R.
ANTHROPOMETRIC EVALUATION OF BODY COMPOSITION
A64-A64-80020 BEISCHER, D. E.
BIOLOGICAL EFFECTS OF HOMOGENEOUS AND
INHOMOGENEOUS MAGNETIC FIELDS IN RELATION TO
SPACE TRAVEL
A64-24398

STRONG MAGNETIC FIELDS EFFECT ON ELECTRO-CARDIOGRAMS OF SQUIRREL MONKEYS /SAIMIRI SCIUREUS/, NOTING HEART RATE A64-27598

BIOLOGICAL EFFECTS OF MAGNETIC FIELDS IN THEIR RELATION TO SPACE TRAVEL - A REVIEW A64-80482

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA NASA-CR-55625 N64-15346

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS
NASA-CR-56886 N64-27890

BEKEY, G. A.
CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO
PARAMETER DETERMINATION OF TIME VARYING HUMAN
PILOT MODELS
NASA-CR-56374
N64-239

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS NASA-CR-56362 N64-24046

AUTOMATIC COMPUTER METHODS FOR DETERMINING
PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY
LINEAR TIME-INVARIANT MODEL
NASA-CR-56373 N64-27385

BEKKER, L. M.
HUMAN ENGINEERING IN AUTOMATIC DATA PROCESSING FOR INFORMATION RETRIEVAL
JPRS-19100 N64-10814

BELAI, V. E.
STIMULATION AND INHIBITION OF RODENT CEREBRAL
CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE
ACCELERATIONS
A64-25600

BELASCO, N.

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MANMACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED
AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256 N64-12226

BELAY, V. YE.
LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL
NERVOUS SYSTEM OF ANIMALS N64-23766

BELENKIY, M. L.
ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA,
ASPHYXIA, AND BURN SHOCK STIMULI

N64-24562

BELIAEV, V. I.
LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX
AND RETICULAR FORMATION OF RABBIT BRAIN
A64-80651

BELIKOV, V.

RUSSIAN COSMONAUT REENTERS SPACE FLIGHT TRAINING MORKING DAY DESCRIPTION - PARACHUTE JUMPS
FTD-TT-64-149/184

BELILES, R. P.
BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY
VAPOR
UR-ENG-49-7
N64-19921

BELITSINA, N. V.

EFFECT OF RADIATION INJURY OF NUCLEI ON SYNTHESIS

OF INFORMATIONAL RIBONUCLEIC ACID IN FISH EMBRYO

JPRS-23944

N64-18334

BELKEVICH, V. 1.

BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE
OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING
TASKS
JPRS-17500
N64-10690

BELL, A. C.

LOOKING AHEAD MECHANISMS TO CHARACTERIZE HUMAN
OPERATORS SENSING AND USING FUTURE IMPUT DATA IN
FORCED PACE CONTROL TASKS

A64-24839

BELL, C. R.
TIME DISCRIMINATION RELATED TO BODY TEMPERATURE
AND PULSE RATE IN HOT ENVIRONMENT
A64-80064

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO HOT AND HUMID CONDITIONS A64-81191

BELL, H. S.
AIRCRAFT ACCIDENTS AND FATALITIES WITH EMPHASIS ON
EJECTION AT SAFE ALTITUDE
A64-20697

AIR FORCE AIRCRAFT ACCIDENTS RESULTING IN INJURIES
AND FATALITIES - RECOMMENDATIONS FOR SURVIVAL
A64-80503

BELL, J.

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN
CONDITIONS AND POSSIBLE EFFECTS ON EXTRATERRESTRIAL LIFE
A64-24948

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT
NASA-TM-X-50873 N64-22777

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS
OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE
SUITS
SAM-TDR-63-59
N64-12855

BELL, L. H.
THERMODYNAMICS OF PHOTOSYNTHESIS

N64-28310

BELLEVILLE, R. E.
ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF
CHIMPANZEE
NASA-RP-188
N64-22094

DRUG EFFECT ON RAT LEVER-PRESSING RESPONSE NASA-RP-262 N64-25975

BELLI, R.
BENZENE POISONING IN RABBIT AND CHANGES IN
IMMUNIZATION AND TYPHOID ANTIBODY LEVEL
A64-80671

BELLINO, F. L.
ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE
EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC
FIELDS
A64-80841

BELLMAN, R. E.

DETERMINING HEART PARAMETERS ON BASIS OF SKIN
POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL
RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS
RM-4138-NIH
N64-26475

BELLUSCIO, P. R.
BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY
VAPOR
UR-ENG-49-7
N64-1992

BELOSHITSKII, P. V.
HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF
PERIPHERAL BLOOD AND HYPOPHYSIS-ADRENAL SYSTEM
IN MAMMALS AND MAN A64-81282

BELOUSOV, A. S.
PHYSIOLOGICAL TELEMETRIC METHOD USING SWALLOWABLE
RADIOCAPSULE FOR STUDY OF GASTROINTESTINAL
PROCESSES
A64-80792

UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT

A64-81021

USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM
NASA-TT-F-9026 N64-27367

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS
N64-30237

ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES

N64-30393

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

CYANIDES AND NITRILES FOR RADIATION THERAPY - MEDICAL RADIOLOGY JPRS-26887 N64-32306

BELOVA, O. M.

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING COOKING OF BONES, MEAT, POTATOES, AND CABBAGE

BELSKY, F. J.
CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR REMOTE CONTROLLED LUNAR LANDING SIMULATION A64-27808

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE NASA-CR-50208 N64-22764

BELYAYEV, YU. A.
RADIOLOGY - EFFECTS OF PLUTONIUM-239 ON METABOLIC FUNCTIONS OF MAMMALS FTD-TT-63-559/182 N64-16377

BENDER, H. W.
DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

BENDER, M. B.
EYE MOVEMENTS AND MUSCLE ACTIVITY RESULTING FROM ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN A64-80461

BENDIXEN. H. H.

LUNG VOLUME, COMPLIANCE, AND ARTERIAL DXYGEN AND CARBON DIOXIDE TENSIONS DURING CONTROLLED VENTILATION OF DOGS WITH PURE DXYGEN

A64-80700

ION EXCHANGE OF ISOTOPIC SODIUM-24 AND POTASSIUM-32 BETWEEN BLOOD AND CENTRAL NERVOUS SYSTEM DURING HYPOXIA

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT 464-80280

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021 N64-25950

BENJAMIN, H. B.

HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM AND PERIPHERAL NERVES IN THE RAT

A64-80066

BENNER, F. C.
EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM
TO EXTREME TEMPERATURES NASA-CR-55288

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS

NASA-CR-50333

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT NASA-CR-56525

BENNETT, D. C.
PHONETICS - STUDIES OF BRITISH, HUNGARIAN, AND GERMAN SPEECH AFCRL-64-86 N64-16802

CORRELATION OF FLYING APTITUDE WITH ELECTRO-ENCEPHALOGRAM FOR AIRCREW SELECTION

A64-19137

SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN ELECTROENCEPHALOGRAPHY A64-25557

CASE HISTORIES ILLUSTRATING CAUSES OF AIRCREW DISORDERS A64-80180

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY AIR FORCE CREWS AND RECRUITS

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION REPT.-12-63

BENNETT, G.
HUMAN ENGINEERING FACTORS AND LIMITATIONS APPLIED AT INITIAL DESIGN STAGES OF SUPERSONIC TRANSPORT A64-16438

BENNETT, L. R. COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL IRRADIATION A64-80270

BENNETT, S.

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS AMRL-TDR-64-26 N64-22373

BENOIT, R. T.
MULTIFILTER SYSTEM FOR WASH WATER RECLAMATION FOR EXTENDED DURATION SPACE VOYAGES, SHOWING IMPORTANCE OF WATER COMPOSITION

A64-1886 AIAA PAPER 64-212

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE **FLIGHTS**

AIAA PAPER-64-212

BENSON. S. D.

HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION. MAINTENANCE, AND CONTROL OF TACTICAL METEOROLOGICAL INSTRUMENTS ESD-TDR-64-437 N64-29751

BENZINGER, T. H.
ANIMAL AND HUMAN CALORIMETRY, HUMAN RESPONSES TO
COLD SKIN AND TO HIGH CORTICAL TEMPERATURE, HUMAN
THERMOREGULATOR

ASAE PAPER 62-422

MECHANISM OF ELEMENTARY BIOSYNTHESIS - ENERGY-TRANSFORMING PROCESSES IN NITROBACTER NASA-CR-55562 N64-16322

BEREZOVSKII. V. A.

CXYGEN SATURATION AND TEMPERATURE OF BRAIN TISSUES UNDER CONDITIONS OF PHYSIOLOGICAL STRESS
DETERMINED BY POLAROGRAPHIC METHOD IN DOG

A64-B1256

CYBERNETICS AND PROGRESS IN SCIENCE & TECHNOLOGY N64-1250B

CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTROL JPRS-26201 N64-28050

SPACE RADIATION ROLE IN SYNTHESIS OF ORGANIC COMPOUNDS LEADING TO CREATION OF LIFE

A64-80448

BERGERET, P.
AEROSPACE MEDICINE - ESCAPE FROM HIGH SPEED
AIRCRAFT AND SURVIVAL UNDER ENVIRONMENTAL STRESS AGARDOGRAPH-52 N64-13493

BERGERON, H. P.
TRANSFER FUNCTION OF HUMAN PILOT OPERATING IN
CLOSED LOOP CONTROL SITUATION, USING SINGLE AXIS
AND TWO AXES TESTS, AND COMPARISON GF PILOT AND MODEL PILOT PERFORMANCE

MEASURED HUMAN TRANSFER FUNCTIONS - MATCHING ANALOG SIMULATION TO PILOT PERFORMANCE DURING 1 & 2-AXIS TASKS WITH & WITHOUT COCKPIT MOTION NASA-TN-D-2177 N64-17157

MEASURED	VARIATION	IN	TRANSFER	FUNCTION	OF	HUMAN
PILOT						
NASA-RP-206				N64-25000		

TRANSFER FUNCTIONS OF HUMAN PILOT IN VARIOUS MODEL NASA-TN-D-2394 N64-26544

BERGMAN, N. A.
PRESSURE BREATHING PATTERN VARIATION AND ALVEOLAR
ARTERIAL GRADIENTS IN DOGS A64-80106

BERGOFSKY, E. H.
RIB CAGE AND DIAPHRAGM CONTRIBUTIONS TO
VENTILATION IN MAN A64-80765

BERGSTEDT, M.
VESTIBULAR CLINICAL EXAMINATION USING
ELECTRONYSTAGMOGRAPHY
A64-80948

BERGUM, B. O.
CONDITIONS AFFECTING VIGILANCE BEHAVIOR AND
RELATION TO VARIATION IN DETECTION RESPONSE
HUMRRO-RB-10
N64-13106

BERITACHVILI, I. S.
SPATIAL ORIENTATION IN MAN VIA VISUAL,
KINESTHETIC, LABYRINTHINE, AND CUTANEOUS
SENSATIONS
A64-80445

BERKMAN, P. M.

CEREBROSPINAL FLUID AND PLASMA BICARBONATE AND
ELECTROLYTES IN DOG IN ACUTE AND PROLONGED
HYPERCAPNIA

A64-80085

BERKSHIRE, J. R.
SCREENING TECHNIQUES, TRAINING STANDARDS, AND
SUCCESS PROBABILITIES FOR AVIATION TRAINEES AND
CANDIDATES
N64-15109

BERLIN, L. B.
RESTORATIVE PROCESSES IN DUODENAL MUCOSA AFTER
RADIATION EXPOSURE
JPRS-22276 N64-15828

BERLINER, M. D.
ENDOGENOUS PERIODIC GROWTH BAND FORMATION IN
NEUROSPORA DEPENDENT ON MEDIUM TEMPERATURE AND
COMPOSITION
A64-28416

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY MICROORGANISM A64-80855

BERLUCCHI, G.
AUDITORY INPUT DURING SLEEP AND WAKEFULNESS
RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT
A64-80724

BERNARD, J.
RADIDACTIVITY MEASUREMENTS OF AIR FRANCE AIRLINERS
A64-80030

BERNE, R. M.
LOCAL REGULATION OF BLOOD FLOW IN SKELETAL MUSCLE
OF DOG A64-81133

BERNOTAT, R.
CONTROL SYSTEM OPTIMIZATION WITH RESPECT TO
EFFICIENCY AND RELIABILITY DISCUSSED IN TERMS OF
MAN-MACHINE ADAPTABILITY A64-16478

BERNSHTEYN, N. A.
PHYSIOLOGY & PROBLEMS OF CYBERNETICS
N64-12512

BERNSTEIN, R. I.
SAFETY, HAZARDS & ACCIDENTS
NASA-CR-56623
N64-24119

BERRY, C. A.

MAN AND THE SPACE ENVIRONMENT WITH RESUME OF
PRESENT KNOWLEDGE

A64-14092

SPACE MEDICINE EXPERIENCE IN MANNED SPACE FLIGHT
APPLIED TO APOLLO
AAS PAPER 64-12
A64-17959

MEDICAL ASPECTS OF MANNED SPACE FLIGHT

BERRY, L. J.

EFFECT OF EXPOSURE TO LOW TEMPERATURE ON BLOOD

CLEARANCE OF CARBON & BACTERIA IN MICE

AAL-TDR-63-1

N64-13629

TRYPTOPHAN PYRROLASE ACTIVITY EFFECT IN BACTERIAL ENDOTOXIN POISONING IN MICE AAL-TDR-63-13 N64-13662

BERSHTEYN, S. A.
MORPHOLGICAL CHANGES IN INTERNAL ORGANS AND SKIN
FROM LOCAL ULTRASONIC IRRADIATION
JPRS-21776
N64-10207

BERTHARION, G.
CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE
SULFATE IN RATS EXPOSED TO OXYGEN UNDER PRESSURE
A64-80283

BERZIN, P. A.
MUSCULOMOTOR SENSATIONS IN PHYSICAL EXERCISE
JPRS-27192 N64-33761

BEVAN, W.
HUMAN BEHAVIOR - EVOLUTION OF PERCEPTUAL REFERENCE
SYSTEMS
AD-600319
N64-27094

PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL STIMULATION, & BACKGROUND - ADAPTATION-LEVEL THEORY TR-17 N64-27095

ENHANCEMENT OF WORK PERFORMANCE BY ORALLY
PRESENTED RESULTS
TR-18
N64-27096

RELATION OF HUMAN PERFORMANCE IN AUDITGRY
VIGILANCE TO CHANGES IN REINFORCEMENT
TR-19 N64-27097

BEYER, C.
NONSPECIFIC ACOUSTIC RESPONSES IN RABBIT IN
RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND
AROUSAL
A64-81028

BEZGIN, A.

ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN
CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND
CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

BEZINGER, E. N.
CHLORELLA PYRENDIDOSA PROTEIN ANALYSIS FOR
ESSENTIAL AMINO ACIDS - SPACE BIOLOGY

N64-11697

BHATIA, B.
THRESHOLD WIDTH OF OBJECT MOVING BEHIND SLIT
DETERMINED FOR DIFFERENT SPEEDS

A64-20346

BIANKI, V. L.
IMPORTANCE OF SYNERGETIC ACTIVITY IN CEREBRAL
HEMISPHERES TO SPATIAL PERCEPTION

N64-25135

BIASE, D. V.
PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL
AND PARTIAL PERCEPTUAL ISOLATION

A64-80513

BIBIKOVA, A. F.
ACUTE RADIATION SICKNESS IN MAN
FTD-TT-63-558/1&2 N64-21645

BICKLEY, W. H.

MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY
NASA-SP-5006

N64-17838

BIEMANN, K.

ORGANIC MOLECULAR STRUCTURE OF TERRESTRIAL NATURAL PRODUCTS IDENTIFIED AND DETERMINED BY MASS SPECTROMETRY

A64-18845

3IERMAN, W. RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN SUPINE POSITION

A64-80079

BIGET, P.
BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT
A64-269

BILDERBACK, L. G.
MOON ILLUSION TESTED UNDER SIMULATED CONDITIONS
PROVIDING VARIETY OF VISUAL CUES

A64-80623

PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE AGE, AND SEX IN ADULT HUMAN A64-80051

BILLINGS, C. E.
METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO
EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

BILLINGS, M. S.
COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL IRRADIATION

BILLINGSLEY, J. G.
HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS

A64-13522

BILODEAU, E. A.

RECOVERY FROM DECREMENT AS FUNCTION OF WORK-REST PERIOD A64-80904

BILODEAU, I. M.
SUPPLEMENTARY FEEDBACK IN ROTARY PURSUIT TRACKING A64-80758

BINFORD, J. R.

DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS
UNDER DIFFERENT SCHEDULES A64-80; A64-80201

SMALLPOX IMMUNITY SURVEY AT LARGE INTERNATIONAL **AIRPORT** A64-80097

BLOOD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION

A64-80271

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

A64-R0820

BIRMINGHAM, H. P.
ANALYTICAL TECHNIQUES FOR HUMAN FACTOR ENGINEERING
IN MAN-MACHINE SYSTEMS
A64-23299

BIRMINGHAM, M.

CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS -PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE

BIRO, E.

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR BIOLOGY JPRS-26558

BIRREN, J. E.
BIOASTRONAUTICS AND AEROSPACE MEDICINE PROBLEMS IN MANNED SPACE FLIGHT

AGING - SOCIAL, PHYSIOLOGICAL, AND PSYCHÖLOGICAL ASPECTS A64-80531

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF

NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED THROUGH DEOXYRIBONUCLEIC ACID N64-19439

BISHOP, B.
REFLEX CONTROL OF ABDOMINAL MUSCLES DURING
POSITIVE PRESSURE BREATHING
AG A64-80310

RESPIRATORY PHYSIOLOGY OF ABDOMINAL MUSCLE AND DIAPHRAGM IN PRESSURE BREATHING

REFLEX CONTROL OF ABDOMINAL MUSCLES IN POSITIVE PRESSURE BREATHING N64-17930

BISHOP, J. M.
INSPIRED DXYGEN TENSION VARIATION AND ALVEOLAR-ARTERIAL DXYGEN TENSION DIFFERENCE IN SITTING AND SUPINE MALES AND FEMALES A64-80187

BISHOP, P. O.
NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA
NA4-1785

BISSONETTE, G. B.
SMALLPOX IMMUNITY SURVEY AT LARGE INTERNATIONAL

BIZIN, IU. P.
HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS SYSTEM FUNCTION DURING RELATIVE SENSORY DEPRIVATION A64-80235

VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND ELECTRONYSTAGMOGRAPHIC RECORDINGS

A64-80681

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

A64-81067

BJURSTEDT, H.

TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

BLACK, R. W.

HEART RATE RESPONSE OF RAT TO AUDITORY STIMULI OF VARYING DURATION A64-80811

BLACKBURN, L. H., JR.
LOSS OF CONSCIOUSNESS IN AVIATION PERSONNEL -PHYSIOLOGICAL SYNCOPE REPT--16 N64-33570

BLACKMON, J. R.
INDOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC BLOOD FLOW DURING EXERCISE IN UPRIGHT MAN

BLAGEVESCHENSKAYA, I. N.
EFFECT OF ENVIRONMENTAL TEMPERATURE, DXYGEN
CONTENT, AND PHYSICAL EXERTION ON VISUAL
PERCEPTION

FTD-TT-63-980/162

N64-23312

BLAGOVESHCHENSKAYA, I. N.

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH OXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN

N64-13583

BLAIR, E. EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN THE HUMAN

MANHATTAN PROJECT WORK ON BIOLOGICAL EFFECTS OF EXTERNAL RADIATION N64-10936

ADDITION OF MODES OF RADIATION INJURY IN PRODUCING LETHALITY IN DOGS, MICE, AND RATS N64-20696

DIVIDED OR PROLONGED IONIZATION RADIATION OF MICE UNTIL DEATH

UR-649

N64-31035

BLAIR, W. H. EFFECT OF IMPACT VELOCITY ON LDH ISOENZYMES AND RELATED TISSUE DAMAGE IN CHIMPANZEE

ELECTROENCEPHALOGRAPHY IN AVIATION MEDICINE A64-80274

PRINCIPLES AND METHODS OF USING ELECTROENCEPHALOGRAPHY IN AEROSPACE MEDICINE A64-81336

BLANCHARD, W. G.
HUMAN TOLERANCE - RESPIRATORY IMPAIRMENT FROM FORWARD ACCELERATION N64-13460

BLAYLOCK, B. G.
CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION N64-14442

BLECHSCHMIDT, C.
MANNED IMPACT TESTS OF ACTIVE ELASTIC RESTRAINT
SYSTEM, USING PRESSURIZED AIRBAGS ABOUT THE HUMAN AIAA PAPER 64-220

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT PASSENGERS N64-24972

AIAA PAPER-64-220

FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE

N64-31026

CEREBROSPINAL FLUID AND PLASMA BICARBONATE AND ELECTROLYTES IN DOG IN ACUTE AND PROLONGED HYPERCAPNIA

BLEIFER, D.

IFER, D. J.
MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION
TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM -TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22

REGULATION OF BREATHING AT BEGINNING OF EXERCISE A64-80117

BLICK, E.

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD IMPACTS

A64-80

ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC FIELDS

BLISH, L. RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES N64-17790 NASA-CR-53344

CALORIC EXPENDITURE DURING PHYSICAL EXERCISE AND RELATIONSHIP TO VENTILATION AND BODY WEIGHT A64-80877

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE ASD-TDR-63-732

PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MODALITIES

BLIVAISS, 8. 8. VIBRATIONAL STRESS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-22064 WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS

WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN AMRL-TDR-64-53 N64-31942

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO MHOLE-BODY VIBRATION AMRL-TDR-64-54 N64-31 N64-31943

BLIZZARD, J. J. EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

BLOCKER, T. G., JR.
HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO
VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF ALLIED HEALTH PERSONNEL AD-426228

BLOCKER, V.

HEALTH PROGRAM FOR PROVIDING BURN THERAPY TO
VICTIMS OF NATIONAL ATOMIC DISASTER - TRAINING OF
ALLIED HEALTH PERSONNEL

BLOIS, M. S., JR.
MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS —
CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE
SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR WEIGHT ORGANIC COMPOUNDS BL-86

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS -PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR WEIGHT ORGANIC SYNTHESIS NASA-CR-56531 N64-22792

BLOUNT, S. G.
CARDIOVASCULAR SYSTEM IN CHILDREN FROM HIGH ALTITUDE A64-80311

ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA

A64-80048

ELECTROCARDIOGRAM OF YOUNG AND ADULT RABBIT AND CHICKEN DURING HYPOTHERMIA AND HYPERTHERMIA

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

VIABILITY OF MICROGREANISMS IN SIMULATED SPACE NASA-CR-59092

BLYUGER, A. F.
ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA,
ASPHYXIA, AND BURN SHOCK STIMULI

N64-24562

BLYUMENFELD, L. A.
ELECTRON PARAMAGNETIC RESONANCE STUDY OF
RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMINO ACIDS
AND PROTEIN TISSUES
N64-169

SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING N64-28036 BIOLOGICAL OXIDATION

BOBNEYA, M. I.
PATTERN ANALYSIS OF CONDITIONED RESPONSE AND
THOUGHT PROCESSES OF HUMAN BRAIN N64-25951 FTD-TT-64-184/184

PSYCHOLOGICAL EFFECTS ON RELIABILITY OF ASTRONAUT UNDER FLIGHT CONDITIONS

FTD-TT-63-761/182

N64-29277

BOCHVAR, I. A.
DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD VOSTOK V AND VOSTOK VI SPACESHIPS

A64-18573

BOCK, J.

ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO
INTRAOCULAR PRESSURE ISCHEMIA UNDER DIFFERENT
CONDITIONS OF LIGHT STIMULUS INTENSITY

A64-80374

BOEREMA, I.

DXYGEN INTOXICATION UNDER NORMAL AND INCREASED
ATMOSPHERIC PRESSURE

A64-80221

BOGDANOV, V. V.

INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION MODELS

A64-2560:

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

BOGDONDFF, M. D.
PHYSIOLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER
STRESS AND DEPRIVATION A64-81176

BOHANNON, R. L.
AIR FORCE MEDICAL SUPPORT OF SPACE PROGRAM
N64-30716

BOHENSZKY, G.
AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR
HEMODYNAMIC DISORDERS AND CARDIAC DISEASES
FTD-TT-64-271/1828364

BOHLEN, J. M.
SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES PUBLIC FALLOUT SHELTERS

BOKHOV, 8. 8. REACTIONS TO ACCELERATION JPRS-21908

AD-603125

N64-10383

N64-32529

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

BOKOR, Z.

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES FTD-TT-64-271/1828364 N64-26092

BOLDINGH, W. H.
GRIDS FOR REDUCING SCATTERED X-RAYS IN MEDICAL
RADIOGRAPHY
N64-23275

BOLIE, V. W.

ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS
MONITOR

A64-81110

BOLTYANSKIY, V. G.
MAXINUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL
PROCESSES
FTD-TT-62-1746/16264
N64-22143

BONAS, J.
ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND
CATECHOLE DERIVATIVES
ARL-TDR-63-29
N64-14971

BONCOUR, R.
PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT
AND GUINEA PIG
A64-81155

BONDAKEVSKII, M. S.
CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT
SIMULATED HIGH ALTITUDE A64-81249

BONDAREV, E. V.
PRIMARY CEREBRAL CORTEX POTENTIALS EVOKED BY
ACOUSTIC STIMULUS AT VARIOUS ALTITUDES AND DURING
HYPOXIA IN CAT
A64-81083

BONDY, P. K.
PROLONGED STARVATION EFFECT ON BLOOD PLASMA
CONCENTRATION AND EXCRETION OF ADRENAL HORMONES
A64-80767

BONGARD, M. M.
COMPUTER MODEL FOR ANIMAL BEHAVIOR STUDY AND
INSTRUCTION FOR RECOGNITION - CYBERNETICS

N64-12525

BONGERS, L.
GROWTH CHARACTERISTICS DF AUTOTROPHIC BACTERIA FOR
BALANCE IN CLOSED ECOLOGICAL SYSTEM CONTAINING MAN
NASA-CR-58129
N64-27817

BONGERS, L. H.
CHEMOSYNTHETIC GAS EXCHANGE SYSTEM FOR LONG
DURATION MANNED SPACE FLIGHT
A64-80262

BOPP, P.

HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART
FUNCTION

A64-80408

BORDES, L. R. FRONTAL MUCOCELE REVEALED BY BAROTRAUMA A64-80034

BORDON, G. J.
GEOGRAPHIC ORIENTATION & DISORIENTATION OF
AIRCRAFT PILOTS
TR-751-1
N64-13608

BORGHESAN, E.
HISTOLOGICAL ANALYSIS OF LABYRINTH PIGMENTED
CELLS - MELANIN CONTAINING MACROPHAGES
A64-80977

BORISOV, V. G.
THIAMINE AND RIBOFLAVIN CONTENT OF TISSUES IN
BURN SHOCK
N64-10010

BORISOVA, O. F.

SPIRALIZATION OF TRANSPORT RIBONUCLEIC ACID

MEASURED BY DURATION OF FLUORESCENCE OF ACRIDINE

ORANGE DYE

JPRS-22521

N64-12067

BORMAN, F.
IMPORTANCE OF PILOT VIEWPOINT AND EXPERIENCE IN
MANNED SPACECRAFT DESIGN AND DEVELOPMENT
A64-2471:

BORN, J. L.
ALPHA PARTICLE AND PROTON BEAMS IN RADIATION
THERAPY OF PITUITARY GLAND TUMORS AND ADENDMA
N64-15205

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206

BORNER, W.
CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND
HEIGHT A64-80797

BORNSCHEIN, H.
VESTIBULAR CORIOLIS EFFECT DURING ADDITIONAL
LINEAR ACCELERATION A64-80250

ELECTRORETINGGRAPHIC RESPONSE OF RABBIT TO
INTRAOCULAR PRESSURE ISCHEMIA UNDER DIFFERENT
CONDITIONS OF LIGHT STIMULUS INTENSITY

A64-B0374

BORDVIKOVA, O. N.
RADIATION EFFECT ON DRGANISM OF MAMMALS,
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

BOROMITZ, J. L.
URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED
WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT
SAM-TDR-63-9 N64-13931

BOSEE, R. A.
HUMAN ENGINEERING, TOLERANCE, AND PERFORMANCE IN
SIMULATED SPACE FLIGHTS AND HIGH ALTITUDES
N64-15107

BOSHELL, B.

CARDIAC OUTPUT AND OXYGEN CONSUMPTION AS RELATED
TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING
EXERCISE IN NORMAL AND HEART DISEASED SUBJECT

A64-80990

BOTAN, E. A.
PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED
ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE,

LIFE FORMS, AND SOIL STUDY

464-80860

SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS A64-81094

LUNG CAPACITY AND RESPIRATION PATTERN IN WIND-INSTRUMENT PLAYER A64-81019

BOUISSET, S.

OXYGEN CONSUMPTION DURING LIGHT MUSCULAR WORK AND ZONE OF LEAST ENERGY EXPENDITURE WITH BIMANUAL

A64-8034 A64-80341 MOVEMENTS

LOAD EFFECT ON OXYGEN CONSUMPTION AND HEART RATE A64-80342 DURING LIGHT MUSCULAR WORK

PHYSICAL FITNESS TESTS EVALUATED BY MORPHOLOGICAL INDEX VERSUS CARDIOVASCULAR STRESS TESTS A64-80412

BOURDINAUD, J.
AIR TRANSPORTATION OF PATIENTS WITH CONGENITAL HEART DISEASE A64-80029

AIR TRANSPORTATION OF CARDIAC PATIENTS

A64-80775

BOURGUIGNON, A.

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION

ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY A64-81154 SLEEP DEPRIVATION

BOURRET. M.

INJURIES SUSTAINED DURING HIGH SPEED EJECTION FROM A64-13749

INJURIES SUSTAINED DURING SURVIVABLE SONIC EJECTION WITH FRENCH E. 96 AND E. 97 SEATS

A64-80669

BOUVEROT, P.
DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF A64-80023 CARDIAC FREQUENCY

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA
AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS A64-80052

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA

A64-80053

BOVEE, H. A.
LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE DISPOSAL, DXYGEN PRODUCTION, AND FOOD SUPPLY A64-81223

BOWEN, H. M.
VIGILANCE AS FUNCTION OF SIGNAL FREQUENCY AND FLASH RATE A64-80439

MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS A64-80539 STUDIES

PHYSICAL CHARACTERISTICS OF PRESSURIZED SUITS EXPOSED TO SIMULATED DYNA-SOAR MISSION CONDITIONS

AMRL-TDR-64-36

N64-28565

BOWER, T.

STEREODEPTH FROM AFTERIMAGES

A64-81213

BOWERS, E. G.

ABDOMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING ORGANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION

A64-80824

BOWSHER, J. M.
NOISE RATING SCALES FOR EVALUATION OF INFLIGHT A64-12996 ATRCRAFT NOTSE

BOYENKOVA, N. M.

LATITUDINAL AND SEASONAL DISTRIBUTION OF DAILY
MAXIMA AND MINIMA OF F- 2 LAYER CRITICAL

FREQUENCIES NASA-TT-F-9018

N64-23133

BOYER. M. H.

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY NASA-CR-52607 N64-11103

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS

NASA-CR-55744

N64-15873

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION NASA-CR-54051 N64-25906

BOYKO, N. N. LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION

BOYNTON, J.
HUMAN PERFORMANCE IN SOUND LEVEL IDENTIFICATION FOR LEVELS WITH AN UNBALANCED PROBABILITY OF OCCURRENCE A64-10959 USAF ESD-TDR-62-352

BOYNTON, J. H.
PILOT PERFORMANCE IN COPING WITH CRITICAL SYSTEM FAILURES DURING MERCURY ORBITAL FLIGHTS ATAA PAPER 64-222

PILOT PERFORMANCE DURING MERCURY SYSTEMS FAILURE AIAA PAPER-64-222 N64-23609

BOYNTON, R. M.
SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR THREE RETINAL ECCENTRICITIES, USING COLOR NAMING A64-28417

BRADBURY, P. A.
SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

BRADHAM. G. B.

HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC OXYGEN A64-80154

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

BRADY, J. V.
LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED **ENVIRONMENT**

NASA-CR-52913

N64-11825

BRADY. T. G.

PROPERTIES AND STRUCTURE OF PURIFIED MAMMALIAN ADENOSINE DEAMINASE ISOLATED FROM CALF INTESTINE AND CAT LUNG N64-14832 AD-429070

BRAGDON, H. R.

ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA RHYTHMS/ DURING MENTAL ACTIVITY IN HUMANS

A64-81043

EVOKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM A64-81135 SOLVING

BRAGG. V. C.

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR SPEECH DISCRIMINATION TEST TO DETERMINE SENTOR
AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF
HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT A64-20692

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

SPEECH DISCRIMINATION TEST FOR AGING NAVAL AVIATORS PRESENTED TOGETHER WITH AIRCRAFT BACKGROUND NOISE A64-80854 CUMULATIVE EFFECTS OF REPEATED EXPOSURE TO HIGH INTENSITY TONES UPON RECOVERY OF AUDITORY SENSITIVITY AD-420856 N64-32375

BRAGIAN, V. A.

EFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN
WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA
RAYS - INDUSTRIAL SAFETY
N64-12749

BRAGINSKAYA, F. I.

METACHROMATIC REACTION OF NUCLEIC ACIDS, DNA AND
RNA, PRODUCED BY ULTRASONIC RADIATION
JPRS-24353

N64-18978

BRAGINSKII, V. M.
RIBOFLAVIN, VITAMIN E, BIOTIN, FOLIC ACID AND
EFFECT ON ADRENAL CORTEX FUNCTION AT HIGH ALTITUDE
A64-81281

BRAILOVSKIY, V. L.
CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY
ALGORITHM OPERATION N64-10007

BRAKE, C. M.
TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG
CARDIOVASCULAR SYSTEM
CARI-63-16 N64-16541

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES
FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22
N64-16574

BRAKE, J. M.

BIDCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF
HYDROGEN AND FORMIC ACID
OPR-5

N64-13968

BRAMBEL, C. E.
CHRONIC EFFECTS OF IONIZING RADIATION ON
HEMATOPOLETIC SYSTEM
AD-A02135

HEMATUPULETIC SYSTEM
AD-602135 N64-29673

BRANDI, G.
INITIAL REFLEX COMPONENT OF HYPERVENTILATION IN
FIRST SECONDS OF PHYSICAL EXERCISE
A64-81227

BRANDIS, S. A.
FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF
BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS
MIXTURE AT REST AND DURING EXERCISE
N64-22170

BRANDT, A. B.

OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS,
NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND
STRUCTURE

A64-25602

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS

N64-23768

BRANDT, U.

RADIAL ACCELERATION EFFECT ON POSITION SENSE,
CONSIDERING PSYCHIC FUNCTIONS AND OCULOGRAVIC
PHENOMENON A64-22063

GRAVITATIONAL STRESS AND PERCEPTION OF POSITION IN SPACE A64-80635

BRANLEY, F. M.
EXPLORATION OF MOON - PHYSICAL CHARACTERISTICS OF
MOON, LIFE SUPPORT SYSTEM IN ESTABLISHING MOON
COLONY AND FLIGHT TO MOON
A64-80665

BRAREMELL, R. N.
MESSENGER PROBES TO SURROUNDING STARS IN OUR
GALAXY TO DETERMINE EXISTENCE OF EXTRATERRESTRIAL
INTELLIGENT LIFE
A64-10234

BRASLAVSKY, M. B.
ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER
EXERCISE A64-80207

BRATUS, V. D.
SURGICAL TREATMENT OF BURN INJURIES
JPRS-23933 N64-18398

BRAUER, R. W.
BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND
RESPIRATORY RATE OF RAT LIVER - HYPOXIA

BRAUNE, W. LOCATION OF CENTER OF GRAVITY IN HUMAN BDDY N64-24340

BRAUNWALD, E.

CIRCULATORY RESPONSE TO HYPOXIA IN
UNANESTHETIZED DOG WITH AND WITHOUT
CARDIAC DENERVATION

A64-81061

BRAVO, R. B.
RADIDACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO
BODY ORGANS
N64-11736

BRAY, R. S.
PILOTED SIMULATOR STUDIES OF LOW-SPEED
LONGITUDINAL HANDLING QUALITIES OF SUPERSONIC
TRANSPORT AIRCRAFT
N64-10909

PILOTED SIMULATOR STUDY OF HANDLING QUALITIES OF SUPERSONIC TRANSPORTS IN LANDING MANEUVERS NASA-TN-D-2251 N64-17993

BRAYNES, S. N.

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY
ALGORITHM OPERATION N64-10007

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE JPRS-22994 N64-14149

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN ORGANISMS - CYBERNETICS
JPRS-24816 N64-21125

BREBNER, J.
SENSORY INTERACTION AND OPERATOR PERFORMANCE
REACTION TO BISENSORY PRESENTATION OF INFORMATION
FPRC-1209/A/
N64-29766

EFFECT OF SIMULTANEOUS AUDITORY STIMULATION ON PERCEPTION OF VISUAL SIGNALS FPRC-1209/B/ N64-29767

BREDELL, G. A. G.
HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
PHYSICAL EXERCISE IN HOT ENVIRONMENT

PHYSICAL EXERCISE IN HOT ENVIRONMENT
A64-80696

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION
DE CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT
COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE
A64-B1008

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

BREEDEN, J. H.
THERMAL AND ELECTRICAL CONDUCTIVITIES OF
BIOLOGICAL FLUIDS AND TISSUES
GLR-24
N64-25892

BREHM, M. L.
PHYSIDLOGICAL EFFECT OF COGNITIVE DISSONANCE UNDER
STRESS AND DEPRIVATION A64-81176

BREMERMANN, H. J.
LIMIT OF GENETIC CONTROL OF BRAIN STRUCTURE

BRENKE, H.

PH OF FOREHEAD SWEAT AND SALIVA DURING PHYSICAL
EXERCISE

A64-80370

N64-18834

BRESLAY, I. S.
DELIVERY APPARATUS OF PURE DXYGEN TO CLOSED

BRISMAR, J.
TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT

SYSTEM AND CONSUMPTION MEASUREMENT IN CHRONIC EXPERIMENTS WITH SMALL ANIMALS FTD-TT-63-1118/16264 N64-32663

BRESSLER, R.
TRIGLYCERIDE CONCENTRATION IN MYDCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN

BRIANTSEVA, L. A.
PHYSICAL AND PHYSIOLOGICAL CHARACTERISTICS OF
CHILDREN LIVING AT HIGH ALTITUDE

BRICE, R.
ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS OF WEIGHTLESSNESS A64-13753

BRICTSON, C. A.
TELEMETRY PERFORMANCE TEST FOR MISSILE TECHNICIANS
MAINTAINING GROUND STATION EQUIPMENT ND-64-36 N64-21220

BRIDGER,

DGER, W. H. SENSORY AND SLEEP DEPRIVATION - ROLE OF NEUROPHYSIOLOGICAL CORRELATES IN PRODUCTION OF PSYCHOLOGICAL DISTURBANCES A64-80761

BRIDGES, W. Z.
HYPOXIC EFFECT ON SIMULTANEOUS VISUAL CONTRAST IN A64-80206

BRIEGLEB, W.

SELF-SUSTAINED LIFE SUPPORT SYSTEM DEVELOPED ON BASIS OF SYMBIOSES EXISTING BETWEEN ANIMALS AND PLANTS AND BETWEEN AUTOTROPHIC AND HETEROTROPHIC

RADIOPHOSPHORS AS LIGHT SOURCES FOR PHOTOSYNTHESIS BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM 464-80324

BRIGGS, G. E.
EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING
ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK
AFTER THIRTY DAYS AMRL-TDR-63-125

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL AMRL-TDR-63-136 N64-168 N64-16813

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM AMRL-TOR-64-51

BRIGGS, M. H.
CHEMICAL ORIGINS OF LIFE ON EARTH AND OTHER A64-80529

EXTRATERRESTRIAL LIFE AS RELATED TO ORIGIN OF A64-80530 TERRESTRIAL LIFE

INFRARED SPECTRA OF MARS SUGGEST PRESENCE OF LIFE A64-80565

PREPARATION & PROPERTIES OF UREASE ENZYME IN SOIL N64-15716

AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES OF BIRDS N64-15802

FORMS OF SOIL BIOTIN N64-15803

BRINKLEY, J. W.

HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION A64-13518 **PATTERNS**

MANS SHORT TIME TOLERANCE TO SINUSOIDAL VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN THREE ORTHOGONAL AXES A64-27596 A64-27596

MECHANICAL IMPEDANCE MODEL TO DEVELOP QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION A64-27599

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393

BRITVAN, A. M.

MECHANISM OF INTERACTION OF RESPIRATORY CENTERS UNDER VARIOUS TYPES OF HYPOXIA IN RABBIT AND CAT

BROADBENT, D. E. HUMAN ANNOYANCE MEASUREMENT OF SIMULATED SONIC BOOMS AND AIRCRAFT NOISE A64-16711

REVIEW OF VIGILANCE STUDIES

AND MODERATE EXERCISE IN MAN

A64-80377

BROBECK, J. R.
BIOCHEMICAL NUTRITIONAL NEEDS OF PROVIDING FOOD FOR MEN ON SPACE MISSION A64-24616

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF FOOD REQUIREMENTS IN SPACE A64-80644

PASSAGE OF TRYPAN BLUE, PRONTOSIL, AND RADIOACTIVE CHROMIUM IN CITRATE BUFFER SOLUTION THROUGH BLOOD-BRAIN BARRIER IN HYPOXIA AND HYPOCAPNIA

N64-14589

BROMBERGER-BARNEA, B.
BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

VENTILATORY RESPONSE OF DOG TO INTERMITTENT INSPIRED CARBON DIOXIDE A64-80993

BRONSHTEYN, A. A.
MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837 N64-18084

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

BROOM, B.

HYPOXIA, HYPERCAPNIA, AND/OR PENTOBARBITONE ANESTHESIA AS RELATED TO BODY TEMPERATURE AND SURVIVAL TIME OF RABBIT EXPOSED TO COLD

A64-80927

BROUMA, L.

OXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL ENVIRONMENTS A64-80111

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED BY MUSCULAR ACTIVITY IN NORMAL AND WARM ENVIRONMENTS A64-80112

ANALOG COMPUTER SIMULATION OF THERMOREGULATORY MECHANISMS OF HUMAN BODY AMRL-TDR-63-116 N64-14966

BROWN, A. E.

HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH AS RELATED TO CARDIOVASCULAR DISEASE

A64-80821

BROWN, A. H.

EFFICIENCY IN PHOTOSYNTHESIZING ALGAL CULTURES
INCREASED, USING PHOTOSYNTHETIC GAS EXCHANGER WITH
FLASHING LIGHT EFFECT A64-16191

MARTIAN LIFE /MICROORGANISMS/ DETECTION AND IDENTIFICATION FROM SPACE PROBE CHEMICAL, MORPHOLOGICAL AND PHYSIOLOGICAL EVIDENCE

A64-28342

PERSONAL AUTHOR INDEX BROWN, B.
CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE
DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER ANALYSIS NASA-CR-55689 DRUG DEVELOPMENT AND PSYCHOPHYSIOLOGIC ASPECTS OF VISUAL PERCEPTION AD-447092 N64-33690 BROWN. D.
STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP N64-27395 BROWN, F. A., JR.
PERSISTENCE OF GEOPHYSICALLY DEPENDENT BIOLOGICAL RHYTHMS IN CONTROLLED SPACE FLIGHT ENVIRONMENT A64-28341 BROWN. J. E. NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA N64-17885 BROWN, J. F.
MAN-MACHINE INTERACTION MODELS USED TO SHORTEN
A64-24 A64-24845 PRELIMINARY SYSTEM DESIGN BROWN, J. H.
FREQUENCY OF OCCURRENCE AND IDENTIFICATION OF
AMBIGUOUS PERCEPTUAL FORM
A64-A64-80706 BROWN. J. L. SENSORY AND PERCEPTUAL CAPABILITIES IN RELATION TO TASKS PERFORMED DURING SPACE FLIGHT

SENSORY AND PERCEPTUAL RESPONSE TO SPACE FLIGHT STRESSES A64-80646

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN STATIONARY SIMULATION NADC-AC-6406 N64-28696

BROWN, R.
METABOLISM OF COMPOUNDS OF RADIOACTIVE BROWINE

ISOTOPE IN THYROID GLANDS OF RATS
N64-22869

BROWN, R. J. CHIMPANZEE MEDICAL RECORDS ARL-TDR-64-5

N64-22280

BROWN, S. O.

HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL
RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND
NEUTRON IRRADIATION IN GOATS
RTD-TDR-63-3077
N64-13827

GAMMA RADIATION EFFECT ON THERMAL STRESS
RESISTANCE AND REPRODUCTIVE SYSTEM IN RATS AND
MAMMALS
AD-600960
N64-25308

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES
N64-2531

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY
GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN
ALBINO RAT
N64-25312

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION
DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN,
COUNT, ACTIVITY N64-25314

BROWN, T. S.

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS DURING DISCRIMINATIVE PERFORMANCE IN CAT

N64-22427

BROWNELL, G. L.
FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR
MEDICAL THERAPY FACILITY BEAM

MITNE-47

N64-25472

BROWNFIELD, C. A.
SENSORY DEPRIVATION - HYPOTHESES OF MENTAL
DETERIORATION AND MENTAL FACILITATION

A64-80346

BRUCE, R. A.
INDOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC
BLOOD FLOW DURING EXERCISE IN UPRIGHT MAN
A64-80889

BRUCH, C.= W.= PREVENTION OF BIOLOGICAL CONTAMINATION ON EXTRATERRESTRIAL BODIES A64-18827

REVIEW OF BIOLOGICAL AND PHYSICAL FACTORS IN DRY HEAT STERILIZATION A64-24979

BRUCK, E. PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

BRUENER, H.
HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
RESERVES OF PILOT
A64-27025

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED,
APPLYING CRITERION BASED ON PULSE BEAT AND BODY
TEMPERATURE A64-27027

BRUGGINK, G. M.
INJURY REDUCTION AND CRASH SAFETY DESIGN IN
AGRICULTURAL AVIATION A64-19141

BRUGH, R. L.
SIMULATOR STUDY OF HUMAN PERFORMANCE DURING
LOW ALTITUDE, HIGH SPEED FLIGHT
TRECOM-TR-63-52
N64-16648

BRUGNONE, F.
SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS
INTOXICATED WITH TETRAETHYL LEAD

A64-R0404

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS

A64-81085

BRUMA, M.

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE
TO LASER BEAM IRRADIATION A64-22695

BRUMBERG, V. A.

ULTRAVIOLET FLUORESCENCE OF AMING ACIDS IN FROG
MUSCLES
JPRS-19287

N64-11068

BRUMBERG, YE. M.
ULTRAVIOLET FLUORESCENCE OF AMINO ACIDS IN FROG
MUSCLES
IPRS-19287
N64-11068

BRUNER, H.

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS,
AND EFFECTS OF SPACE ENVIRONMENT ON MAN

N64-10146

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN
DEFICIENCY IN LOW PRESSURE CHAMBER
N64-15036

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS N64-15045

REACTION OF CIRCULATION, RESPIRATION, AND

METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH ALTITUDE N64-15046

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE, TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON VESTIBULAR FUNCTION IN RABBIT A64-B A64-80981

BRYAN, M. E.

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT
FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF
TONE STIMULUS DURATION

A64-2663 A64-26635

BRYDEN, M. P.
LEFT-RIGHT DIFFERENCES IN TACHISTOSCOPIC
RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE PRESENTATION OF STIMULI

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION **PROCEDURES** SAM-TDR-63-73 N64-25040

SPACECRAFT PILOT SELECTION AND TRAINING FOR MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT

BUCHMEISER, R.
HIGH ALTITUDE EFFECTS ON GROWTH AND EXISTENCE OF BACTERIA, NOTING SOLAR RADIATION EFFECT

BUCK, R. N.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-22 N64-22042

BUCKHOUT, R.
EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK AFTER THIRTY DAYS AMRL-TDR-63-125 N64-16811

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL AMRL-TDR-63-136 N64-168

N64-16813

BUCKLEY, J. P.

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS
SUBJECTED TO EXPERIMENTAL STRESS

BUGGE-ASPERHEIM, B.
EFFECTS OF MILD HYPOXIA ON HEMOGLOBIN FRACTION
CHANGES IN BLOOD OF PILOTS REPT.-63-2

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT

BUKHARIN, V. A.

CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA FTD-TT-63-1096/182 N64-2: N64-22142

INDUCED SLEEP FOR CURE OF CHRONIC INSOMNIA, BRONCHIAL ASTHMA, ULCERS, AND HYPERTENSION N64-11621

BULANOVA, O. N.
BLOOD SUBSTITUTION AND OXIDATION OF INTERMEDIATE
METABOLIC PRODUCTS DURING RESUSCITATION AFTER CLINICAL DEATH N64-12768

BULATOVA, T. I.

SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS

N64-20946

BULLARD, R. W. CARBON DIOXIDE INHALATION AND SWEATING DURING EXPOSURE TO DIFFERENT TEMPERATURES IN ENVIRONMENTAL CHAMBER A64-464-80171

BULLEN, M. A.
HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
ULTRASOUND ON LABYRINTH AND TEMPORAL BONE

BULTASOVA, H.
PSYCHOPATHOLOGICAL AND BIOCHEMICAL EXPERIMENTS ON
PSYCHOLOGICAL EFFECT PRODUCED BY ANTICHOLINERGICS N64-15622

BUNDY, R. E.
PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL COOLING, GIVING OBSERVATIONS MADE ON RATS AND HUMANS

BUONGIOVANNI, S.
LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE, TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80981

OXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION SAM-TDR-63-50 N64-1283 N64-12835

BURCH, N. R.
GALVANIC SKIN RESPONSE STUDY USING AUTOMATIC ANALYZER SAM-TDR-63-74 N64-16641

BURDE. M. UTILIZATION OF AUTOMATIC CHEMICAL ANALYTICAL DEVICES FOR DETECTION OF PROTEIN

BURETS, YA.

ELECTRONARCOSIS OF LOWER VERTEBRATES AND COMBINATION WITH DRUG NARCOSIS IN MAMMALS FTD-TT-63-931/162 N64-24064

CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN MAMMAL CAUSED BY INTENSE ACOUSTIC STIMULATION A64~81079

BURGEAT, M.

CHANGE IN COCHLEAR MICROPHONIC POTENTIAL IN
MAMMAL CAUSED BY INTENSE ACOUSTIC STIMULATION
A64-

PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS, AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD PURE TONES

BURGESS, B. F., JR.
HATERS CUVETTE MONITORING OF HUMAN ARTERIAL DXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION NADC-MA-6323

INCREASED HEART RATE AFFECTING PSYCHOMOTOR PERFORMANCE

SIMULTANEOUS BRIGHTNESS CONTRAST IN PERIPHERAL AND FOVEAL VIEWING OF TEST PATCHES

BURGHOFF, H.

MONAURAL ADAPTATION TO SOUND AND EFFECT OF NOISE
EXPOSURE IN CONTRALATERAL EAR

A64-8037

BURGRYSHEV, P. F.
CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS
MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN
SKELETAL BONES OF RATS
N64-1

BURKE, D. G.

PENTABORANE TOXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION

A64-80204

PENTABORANE POISONING AND RELATION BETWEEN LETHAL AND INCAPACITATING DOSAGES IN MAMMAL

A64-81177

BURNELL, J. A.
BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES
USING AUSCULTATORY TECHNIQUES
NASA-CR-56024
N64-20588

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS
FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED
ARTERIES
NASA-CR-56470
N64-22425

BURNETT, W. D.

RACICLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING WEAPONS
SC-4973/RR/
N64-14046

BURNS, N. M.

DATA FROM ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR
STUDIES AND PERSONAL REPORTS ON EFFECTS OF
ISOLATION, SENSORY DEPRIVATION AND EXTREME HAZARD

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH,
EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE
AND TOLERANCE
A64-12985

ISOLATION AND SENSORY DEPRIVATION PHENOMENA
RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION
OF BIOLOGICAL RHYTHMS
A64-80146

BURNS, S. K.

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY
RESTRICTION ON DOG

A64-80493

BURRONS, A. A.
HUMAN TRACKING PERFORMANCE & TOLERANCE TO
ACCELERATION
NASA-CR-21
N64-16534

BUSH, W. H.

CARBON DIOXIDE MEASURING SYSTEMS FOR MANNED

SPACECRAFT

A64-81109

BUSHUROVA, V. YE.
INTERACTION OF SPATIAL, DYNAMIC, AND TEMPORAL
COMPONENTS OF WORKING MOVEMENTS IN LEARNING TO
FILE METAL
N64-25156

BUSTAD, L. K.

DEGREE OF RETENTION IN MINIATURE SWINE OF
INGESTED AND INTRAVENOUSLY INJECTED
RADIONUCLIDES USED IN SNAP /SYSTEM FOR
NUCLEAR AUXILIARY POWER/ PROGRAM

A64-80839

BUSYGIN, V. E.
ATTACHMENT TO ELECTROCARDIOGRAPH FOR PULSE
RECORDING IN HUMAN A64-81309

BUSYGIN, V. YE.
REACTIONS TO ACCELERATION
JPRS-21908

N64-10383

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

BUTENKO, L. A.

ELECTROCARDIOGRAMS IN EVALUATING STATE OF ATHLETIC TRAINING AND PHYSICAL TRAINING METHODS

JPRS-22508

N64-12142

BUTKOVSKAYA, Z. M.
VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL
NERVOUS AND CARDIOVASCULAR SYSTEMS

N64-10782

VISUAL DISCRIMINATION OF FORM BY HUMANS IN CARD SORTING AND TACHISTOSCOPIC EXPOSURE TASKS
A64-8096

BUTLER, R. A.

EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS
OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF
SIGNAL SOURCE LOCATION A64-19516

DISTANCE PERCEPTION OF TWO AUDITORY SIGNALS, ONE EMITTED FROM HEADPHONE AND OTHER FROM NEARBY LOUDSPEAKER A64-25826

BUTOVETSKY, L. D.

ELECTROSLEEP INFLUENCE ON THERMOREGULATION REFLEX
AND ELECTRIC RESISTANCE OF SKIN IN PATIENTS WITH
PRURITIC DERMATOSIS
RSIC-105

BUXTON, J. T., JR.
HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC DXYGEN

BUYLOV, B. G.
METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT
N64-11690

BIOLOGICAL RESEARCH IN SPACE FLIGHT

N64-23746

BUZINI, P. A.
REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF
IONIZING RADIATION N64-30246

BYCHKOV, V. P.
PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL
ORIGIN
N64-11672

BYKOVSKIY, V. F.
ORGANIC CHANGES PRODUCED ON MICROSPORES
TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091

BYZOV, A. L.
VISUAL SYSTEM STRUCTURE AND PHOTORECEPTORS FOR
RETINAL IMAGE - CYBERNETICS N64-12522

 \mathbf{C}

CABEZAS, P. G.
PERCEPTIVE HEARING LOSS IN AIRMEN, CONSIDERING
CHARACTERISTICS AND EFFECTS OF AERONAUTICAL NOISE
A64-11731

CACERES, C. A.
AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL
PHENDMENA BY COMPUTERS
A64-B0533

CACLAIANU, G.

CYBERNETIC RELATION TO SCIENCE AND TECHNOLOGY,
NEUROLOGY, PATHOLOGY, MATHEMATICS, AND PHILOSOPHY
JPRS-23234

N64-1494

CADOUR, E. H.
VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT
A64-80280

CAFFREY, R. M.
RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN
RAT
AAL-TDR-63-17
N64-31829

CAHILL, G. F., JR.
BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN
COLD EXPOSED RAT
A64-81065

CAHN, R. D.
ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL
PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC
DEHYDROGENASES
PUBL.-281
N64-28295

CAHOON, M.

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN
BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION
N64-28111

CAIDIN, N. PARACHUTING HISTORY A64-80145

CAILLER, B.
ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS
OF WEIGHTLESSNESS
A64-13753

CAILLER, M. B.
DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF
CARDIAC FREQUENCY A64-80023

- CAIN, S. M.
 ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN
 UNANESTHETIZED DOGS AT 21,000 FEET

 A64-R0519
 - CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE SAM-TDR-64-2 N64-18886
 - CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS DURING PROGRESSIVE HYPOTHERMIA SAM-TDR-64-44 N64-29288
- CALDWELL, E. J.
 CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN
 TO GRADED TREADMILL EXERCISE A64-80516
- CALDMELL, L. S.
 MUSCLE LOADING AND ENDURANCE IN MALES AND FEMALES
 A64-80093
- CALLOWAY, D. H.
 NUTRITIONAL REQUIREMENTS IN SPACE TRAVEL
 A64-80395
- CALLOWAY, N. 0.

 RATE OF BIOLOGICAL SENESCENCE AT HIGH VELOCITY IN SPACE FLIGHT

 A64-81185
- CALVELLI, E. A.
 PRODUCTION METHOD FOR CONTROLLED MICROBIOLOGICAL
 CORROSION ON TEST SPECIMENS
 ADN-09-08A-63.1 N64-23899
- CALVERLEY, J. R.
 SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN
 ELECTROENCEPHALOGRAPHY A64-25557
 - ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
 DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
 AIR FORCE CREWS AND RECRUITS A64-80947
- CALVIN, G. J.
 ORIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL
 NONLIVING MATTER IN RELATION TO INFORMATION
 AND ENERGY TRANSFER
 A64-80368
- CALVIN, M.
 ORIGINS OF TERRESTRIAL LIFE IN TERMS OF CHEMICAL
 EVOLUTION OF ATMOSPHERE, CATALYSIS, MOLECULES AND
 CELLS, WITH REFERENCE TO EXTRATERRESTRIAL LIFE
 A64-10215

ORIGIN AND EVOLUTION OF LIVING CELLS FROM PRIMEVAL NONLIVING MATTER IN RELATION TO INFORMATION AND ENERGY TRANSFER A64-80368

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE
NASA-CR-50208
N64-22764

- CAMPBELL, A. J.
 HIGH ALTITUDE MAN SEAT STABILIZATION STUDY
 CEPE-1681
 N64-26348
- CAMPBELL, 8. A.

 WATER AND FOOD DEPRIVATION AS RELATED TO RANDOM
 ACTIVITY IN RAT IN VARIOUS ACTIVITY MEASURING
 DEVICES AT DIFFERENT ENVIRONMENTAL TEMPERATURES
 A64-80556
- CAMPBELL, P. A.

 LIFE SUPPORT MANAGEMENT WITHIN SPACECRAFT DURING
 EMERGENCY THAT MAY REQUIRE RESCUE

 A64-27823
- CAMPBELL, R. A.
 THRESHOLD SIGNAL TO NOISE RATIOS FOR FILTERED
 THERMAL NOISE SIGNAL PRESENTED IN THERMAL NOISE
 MASKER
 A64-16090
- CANFIELD, J. H.

 HYDROGEN-OXIDIZING BACTERIA FOR USE WITH
 ELECTROLYSIS IN CLOSED ECOLOGICAL SYSTEMS FOR
 REGENERATION OF FOOD AND OXYGEN FROM WATER AND
 CARBON DIOXIDE
 AMRL-TDR-64-35
 N64-27432

- CANFIELD, R. E.

 ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS
 POCKETS IN RATS DURING RESPIRATION
 N64-17947
- CANNON, M. D.
 PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED
 MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT
 SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA
 BIOSATELLITE PROGRAM
 A64-80261
- CANNON, P.
 TREATMENT OF SEVERE DECOMPRESSION SICKNESS IN
 AVIATORS
 A64-80216
- CANTONE, A.
 PHYSICAL EXERCISE AND EFFECT ON ALIMENTARY
 HYPERLIPAEMIA AND RELATION TO CATECHOLAMINE
 A64-81225
- CAPORALE, R.
 SOUND PRESSURE LEVEL MEASUREMENT, BY MEANS OF DATA
 ON NOISE SOURCE AND SOUND TRANSMISSION PROPERTIES
 IN PISTON AND JET AIRCRAFT A64-12381
- CAPOTOSTO, A., JR.
 ALKALI AND ALKALINE EARTH SUPEROXIDES USED IN
 NONREGENERATIVE AIR REVITALIZATION SYSTEMS FOR
 SPACE MISSIONS
 A64-19134
 - SUPEROXIDES FOR DXYGEN PRODUCTION AND CARBON DIOXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS A64-80831
- CAPPS, M. J.

 ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

 N64-10432
- CAPRARO, V.
 MODIFICATION OF SODIUM TRANSPORT IN FROG SKIN BY
 DC FIELD EXPLAINS DEPOLARIZATION IN NERVE CELLS
 A64-24974
- CARDENAS, R. R., JR.
 FECAL FLORA IN MAN UNDER NORMAL CONDITIONS AND IN
 SPACE FLIGHT SIMULATION WITH SPECIAL DIET
 A64-8082
- CARDUS, D.
 PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE,
 COMPOSITION AND OXYGEN CONSUMPTION
 A64-12995
- CAREY, C. R.
 RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE
 A64-80109
 - CALCIUM AND PHOSPHORUS METABOLISM IN MAN DURING ACCLIMATIZATION TO CARBON DIOXIDE

 A64-80110
 - ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT
- CARHART, H. W.
 AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED
 - NRL-6053 N64-18868

 CARBON MONOXIDE CONTAMINANT IN NUCLEAR SUBMARINE
 ATMOSPHERE N64-24619
- CARLISLE, R.
 HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF
 VISION IN RETINAL ISCHEMIA A64-81016
- CARLSON, K. E.

 ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL

 MUSCLE IN HUMAN

 A64-80966
 - CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE A64-80970

SUBMARINES

TARLSON, L. A.
TURNOVER RATE AND OXIDATION OF DIFFERENT FREE FATTY ACIDS IN MAN DURING EXERCISE

A64-80698

CARLSON, L. D.
SPACE FLIGHT AND SIMULATION EXPERIMENT REQUIREMENTS FOR DETERMINING ASTRONAUT PHYSIOLOGY AND SURVIVAL IN NEAR EARTH ORBIT

A64-28339

PSYCHOLOGICAL RESPONSES AND HUMAN ADAPTIBILITY TO HEAT AND COLD — INSTRUMENTATION N64-30859

EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW AAL-TDR-63-35 N64-33524

TALLING EFFICIENCY AT SURTING CARDS AND WEIGHT LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN HIMALAYAS A64-80915

CARR, R. E. RETINAL RESPONSES OF DARK ADAPTED MONKEYS, MACACA MULATTA, DURING STIMULATION WITH LIGHT A64-80672

CARRIER, O., JR. EVIDENCE FOR TISSUE OXYGEN DEMAND AS MAJOR FACTOR IN AUTOREGULATION IN DOG A64-81238

CARROLL, J. J.
POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION SAE PAPER 8510 A64-20452

CARROLL, J. R.
DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

CARROLL, M. T.

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR
CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS ASD-TDR-63-242

CARSON. T. R. CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE IRRITATION OF RAT AND DOG DUE TO VARYING CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE

CARTER, E. T.
CASE REPORT ON 36-YEAR OLD COMMERCIAL PILOT
SUFFERING FROM RHEUMATOID ARTHRITIS AND PROBLEM OF
THERAPY RELATIVE TO FLYING SAFETY A64-10262

AIR TRANSPORTATION OF PATIENTS WITH PULMONARY DISEASE A64-80757

CARTER, R. L.
OXYGEN CONSUMPTION DURING BAILOUT BETWEEN 45,000 AND 15.000 FEET A64-14014

CARTER, V. L.
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
N64-ARL-TDR-63-28 N64-13854

PRACTICE AND EXPOSURE TIMES EFFECT ON DIAL READING, COMPARING CIRCULAR AND LINEAR SCALES FOR ACCURACY

A64-2685 A64-26855

CASARETT, G. W.
STRONTIUM 90 TOXICITY IN RAT EMBRYO

RETENTION OF STRONIIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE UR-642 N64-207 N64-20715

CASBY, J. U. ANALYSIS OF NERVE ACTIVITY IN INTACT NERVE BY

UR-639

CROSS-CORRELATION AND USE IN AUTOMATIC CONTROL SYSTEM A64-81039

CASEY, R. P. ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE TRAVEL

CASTAGLIUOLO, P.
RELATIONSHIP OF VESTIBULAR TEST RESPONSES,
ESPECIALLY THOSE WHICH ARE ELECTRONYSTAMOGRAPHIC, A64-12380

CASTELNOVO, A. E.
PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO
TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE RATIOS USAPRO-TRN-135 N64-21741

CAUTELA. J. SUGGESTION - INFLUENCE OF INSTRUCTION ON PERCEPTION OF AUTOKINETIC EFFECT A64-80617

CAVAGNA, G. A.
ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS
A64-8 A64-80891

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS
NASA-TT-F-8823 N64-22 N64-22936

MECHANIZATION OF MENTAL PROCESSES AND DESIGN OF TALKING AUTOMATON - CYBERNETICS RADC-TDR-63-528 N64-15 N64-15726

CEDERQUIST, D. INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, ADRENAL WEIGHT IN RAT A64-80785

CEDRANGOLO, F.
ORIGIN OF LIFE RELATED TO FORMATION OF MACROMOLECULES A64-80807

ORIGIN OF LIFE ON EARTH BY INTERACTION OF PROTEIN AND NUCLEIC ACID MACROMOLECULES

A64-81126

CELENTANO, J. T.
RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY
AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS A64-22636

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW A64-80868

CENACCHI, G. C. VITAL CAPACITY, MAXIMUM EXPIRATORY VOLUME, AND TIFFENAU INDEX MEASURED IN MALES BETWEEN 15 AND 18 A64-81163

CERRETELLI, P.
BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE DURING STRENUOUS EXERCISE IN MAN A64-80735

CHAIMAN, D. D.
MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED SLUDGE CELLULOSE - METABOLIC WASTE SAM-TDR-64-25

RESTORATIVE PROCESSES IN DUODENAL MUCDSA AFTER RADIATION EXPOSURE JPRS-22276 N64-15828

CHALMERS, E. L. DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL ASPECTS OF PHOTO INTERPRETATION - EXPOSURE TIME & WORK-REST CYCLES N64-N64-10534

CHALMERS, T. C. HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE A64-80593

N64-18348

CHAMBERS, R. M.

ACCELERATION STRESS ON HUMAN BEHAVIOR AND PHYSIOLOGY, NOTING PSYCHOMOTOR PERFORMANCE, MENTAL ABILITIES AND EMOTIONAL RESPONSE

A64-12980

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH, EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE AND TOLERANCE A64-12985

EFFECTS OF ACCELERATION ENVIRONMENT ON ASTRONAUT PHYSIOLOGICAL AND PERFORMANCE CAPABILITIES A64-23213

RELATION OF PHYSICAL PROTECTION OF MAN TO ISOLATION AND DISORIENTATION DURING SPACE TRAVEL A64-24620

ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDIOVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS A64-80125

PHYSIOLOGIC AND PSYCHOLOGIC EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS A64-80126

ACCELERATION TOLERANCE, ACCELERATION PROTECTION, AND EFFECTS OF ACCELERATION ON VISION AND ORIENTATION A64-80143

ACCELERATION STRESS EFFECT ON HUMAN PERFORMANCE RELATED TO HUMAN ENGINEERING OF SPACE VEHICLES A64-80147

BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATION OF SPACE FLIGHT A64-80554

ISOLATION AND DISORIENTATION DURING SPACE FLIGHT AS RELATED TO SELECTION, TRAINING, AND HUMAN ENGINEERING A64-80647

PILOT BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR MONITORING PERFORMANCE DURING CENTRIFUGE SIMULATIONS OF SPACE FLIGHT N64-12256 NADC-MA-6308

HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG ACCELERATIONS IN CENTRIFUGE N64-15106

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL BEHAVIOR N64-15753 NADC-MA-6305

PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE N64-15755

PHYSIOLOGICAL & PSYCHOLOGICAL DISORIENTATION OF ASTRONAUT DURING SPACE TRAVEL NADC-MA-6321 N64-20329

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR TURBULENCE ON JET AIRLINE PILOTS NADC-ML-6411 N64-31666

CHAMPAGNAT, A.
MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES NASA-TT-F-233 N64-26836

CHAMPION. R. A. SHORT-TERM FOOD DEPRIVATION EFFECTS ON REACTION 464-80609

CHAN. D. APPARATUS FOR MEASURING TACTILE DISCRIMINATION A64-81304

CHANDLER, H.
CARBON DIOXIDE REDUCTION SYSTEM AMRL-TDR-64-42 N64-26906

CHANG, C. S.
X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT STATES OF SPERMATOGENESIS A64-2 A64-27144

CHAD. C.-M. BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-22879

CHAO, S. Y.

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
STATES OF SPERMATOGENESIS

A64-27144

CHAPLYGINA, Z. A.
HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL
SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER -POLYVINYL ALCOHOL N64-18523

CHAPMAN, R. M.
ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA
RHYTHMS/ DURING MENTAL ACTIVITY IN HUMANS 464-81043

EVOKED RESPONSES OF ELECTROENCEPHALOGRAM TO NUMERICAL AND BLANK VISUAL STIMULI WHILE PROBLEM A64-81135

CHARANIAN, T. R.
OXYGEN SUPPLY AND CARBON DIOXIDE CONTROL IN CLOSED FALLOUT SHELTER MRD-1242-2530 N64-28141

CHASE, E. T.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-2: N64-22042

CHASSAIN. A. ALVEOLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM OF HYPERPNEA IN RAT EXPOSED TO COLD A64-80046

MECHANISM OF HYPERPNEA DUE TO COLD IN RAT A64-80054

EFFECT OF INHALING COLD AIR ON PULMONARY VENTILATION IN MAN A64-81125

CHATELIER, G.
ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS OF WEIGHTLESSNESS A64-13753

PHYSIOLOGICAL REACTIONS OF CATS DURING ROCKET A64-24259

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION A64-80031

CHEBOTAREV, YE. YE.
PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR
ACUTE RADIATION SICKNESS N64-1 N64-12780

CHEKHONADSKII, N. A.
INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION A64-25605 MODELS

ANIMAL AND HUMAN PHYSIOLOGICAL PROCESSES REPRESENTED BY RANDOM FUNCTIONS

A64-25606

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS

A64-80896

CHEKHONADSKIY, N. A. MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772

PHYSIOLOGICAL CHANGES IN HUMAN UNDERGOING ACCLIMATIZATION TO SUBARCTIC ATMOSPHERIC A64-81104 CONDITIONS

CHELNOKOVA, N.
EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE N64-23695 SENSITIVITY

CHENG. M.-F. H.

APPARENT DISTANCE IN HORIZONTAL PLANE WITH
TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE
PERCEPTION

A64-8096

CHENYKAEVA, E. U.

DXYGENATING ENZYMES IN BRAIN CORTEX AND MEDULA IN
RAIS ADAPTED TO HYPOXIA

A64-81293

CHERKASOVA, L. S.
EFFECTS OF IONIZING RADIATION ON METABOLIC
PROCESSES
FTD-TT-62-1575/1&2
N64-22390

CHERNAEV, S.

MERVOUS SYSTEM CHANGES OF HUMAN DRGANISM AT 2000

METER ALTITUDE

A64-81275

CHERNIAKOV, I. N.
BRAIN DXYGEN TENSION IN DOGS DURING POSITIVE,

NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80043
BRAIN CXYGEN TENSION IN DOG DURING POSITIVE,

NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80359

POLAROGRAPHIC METHOD FOR STUDY OF OXYGEN

SATURATION OF BRAIN TISSUE IN DOG

OXYGEN SATURATION IN BRAIN TISSUE IN DOG INHALING VARIOUS GASEOUS MIXTURES A64-81255

A64-81254

CHERNICK, V.

VENTILATORY RESPONSE OF DOG TO INTERMITTENT
INSPIRED CARBON DIOXIDE

A64-80993

CHERNIGOVSKII, V. N.
BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE
FLIGHT USING GEOPHYSICAL ROCKET AND MANNED
SATELLITE OBSERVATIONS
A64-25571

CHERNIGOVSKIY, V. N.
CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL
EXPERIMENTS IN SATELLITE N64-11688

ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION AND PROTECTION - ANIMAL STUDY N64-23464

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737

CHERNOY, G. A.
ENDURANCE VARIATIONS IN MICE SUBJECTED TO
ACCELERATION, X-RAY AND PROTON IRRADIATION
A64-27273

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685

CHERNOV, V. N.
AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR
MICROORGANISM CULTURES
N64-23658

CHERNYAKOV, I. N.
OXYGENATION OF BRAIN TISSUE IN DOG DURING
BREATHING OF VARIOUS CONCENTRATIONS OF CARBON
DIOXIDE AND OXYGEN
A64-80793

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN JPRS-21984 N64-10388

EFFECT OF TRANSVERSE ACCELERATION ON DXYGEN
TENSION IN BRAIN TISSUE
FTD-TI-63-1215/18284 N64-22665

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-T1-63-8484/162 N64-29278

CHERNYAVSKAYA, M. A.
CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER
CONDITIONS OF DEEP HYPOTHERMIA

FTD-TT-63-1096/182

N64-22142

A64-80928

CHETVERIKOV, A. G.
SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING
BIOLOGICAL OXIDATION N64-28036

CHETYERIKOY, D. A.
TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE
OF X-RAYS
A64-81267

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS JPRS-21628 N64-10119

CHEVALERAUD, J.
INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING
SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF
GLAUCOMA INCIDENCE IN AVIATORS
A64-20700

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL A64-80506

CHEYMOL, G.
ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS
A64-13750

CHIANTA, M. A.
OXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND
EFFECT ON BURNING RATE OF FABRICS

CHICHESTER, C. D.
TECHNOLOGICAL PROBLEMS OF WATER AND FOOD SUPPLY IN
MANNED SPACE FLIGHT A64-80133

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT

CHILDERS, H. E.
GALVANIC SKIN RESPONSE STUDY USING AUTOMATIC
ANALYZER
SAM-TDR-63-74
N64-16641

CHILES, N. D.
HUMAN GROUP PERFORMANCE DURING CONFINEMENT
ER-6024 N64-15747

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63 N64-31827

CHINAEV, P. I.

SELF-LEARNING AS BASIC STEP IN DESIGN OF SELFADJUSTING SYSTEMS

N64-11039

CHINN, R. M.
VIGILANCE PERFORMANCE INFLUENCED BY THREE
DIFFERENT TYPES OF KNOWLEDGE OF RESULTS

A64-80589

CHIRAY, M.

COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS,
DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108
N64-33392

CHIRKOVA, D. O.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS
JPRS-23678
N64-16694

CHISTOVICH, L. A.
ELECTRIC RECORDING PROCEDURE FOR EXAMINING
ARTICULATION MOTIONS IN SPEECH IN ESTABLISHMENT OF
AUTOMATIC SPEECH RECOGNITION SYSTEM

A64-25601

PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767

CHISUM, G. T.
FLASHBLINDNESS PROBLEMS EVALUATED, DISCUSSING
RELATION OF ADAPTATION OF EYE TO CHANGING
LIGHTING CONDITIONS AND RECOVERY OF SENSITIVITY TO
FUNCTIONAL LEVEL
A64-25555

PROTECTION AGAINST FLASHBLINDNESS AND RELATION

BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING VISUAL STIMULI A64~80925

ADAPTATION OF EYE TO FLASHBLINDNESS

N64-15052

ANIMAL STUDY - PSYCHOLOGICAL DISCRIMINATION BETWEEN TWO STIMULI BY FEMALE HOODED RATS NADC-ML-6404 N64-22719

CHIZHOV, S. V.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

WATER REGENERATION METHODS FOR SPACECRAFT LIFE SUPPORT SYSTEMS A64-25577

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

REGENERATION OF WATER IN SPACESHIP CABIN

N64-23743

GRAVITATIONAL EFFECT ON COORDINATION OF HUMAN BODY
N64-11709

BALLISTIC MOVEMENT OF LOWER LIMBS OF HUMANS
N64-28039

CHOLIN

DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY LANDINGS IN FRANCE A64-80285

CHORLEY, R. A.

AIRCRAFT ENGINE INSTRUMENT DISPLAY TYPES IN
DISCUSSING EASE OF READING, ACCURACY, COMPLEXITY
AND SPACE

A64-24310

CHOM, B. F.
EFFECT OF COLD ON PROTEIN METABOLISM IN RATS
TN-62-11 N64-13830

CHOM, J.
HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
ULTRASOUND ON LABYRINTH AND TEMPORAL BONE
A64-80979

CHRIST, N. E.
INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN
MEMORY
NAVTRADEVCEN-1303-2
N64-2987

CHRISTENSEN, G.
CARBON DIOXIDE MANAGEMENT IN SPACECRAFT
ATMOSPHERES USING MOLECULAR SIEVES AND REDUCED
TEMPERATURE
A64-80536

CHRISTENSEN, G. M.
LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE
DISPOSAL, OXYGEN PRODUCTION, AND FOOD SUPPLY
A64-81223

GROWTH MEASUREMENTS AND PHOTOSYNTHESIS STUDY OF ANGIOSPERMS AMRL-TDR-63-131 N64-1877.

CHRISTENSEN, J. M.
EVALUATION OF PSYCHOLOGICAL ASPECTS OF EXTENDED
MANNED SPACE FLIGHT
A64-10114

PSYCHOLOGICAL EFFECT OF EXTENDED MANNED SPACE FLIGHT
AMRL-TDR-63-81 N64-12213

CHRISTENSEN, M. K.
PENTABORANE POISONING AND RELATION BETWEEN LETHAL
AND INCAPACITATING DOSAGES IN MAMMAL
A64-81177

CHRYSSANTHOU. C.
BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER
EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION
SICKNESS IN MICE
A64-80687

CHUA, K. E.

DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION
IN TWO STRAINS OF MICE

A64-80726

CHUBB, R. M.

REVIEW OF 273 CASES OF EJECTION FAILURES, GIVING
THE FATAL INJURY PATTERNS AND TOXICOLOGIC TEST
RESULTS

A64-10263

SURFACE WIND VELOCITIES CORRELATED WITH PARACHUTE LANDING INJURIES A64-27602

CHUCHKIN, V. G.
AUTOMATED SYSTEM FOR STUDYING EFFECT OF MINERAL
NUTRIENT SOLUTION COMPOSITION ON PHOTOSYNTHESIS IN
HIGHER PLANTS
A64-25616

PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782

CHUDINOVSKAYA, G. A.
CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF
BONE MARROW & LYMPH NODE CELLS IN DIFFERENT
SPECIES OF IRRADIATED MAMMALS
JPRS-22778
N64-13230

CHUNN, S. P.
AIRCRAFT ACCIDENTS AND FATALITIES WITH EMPHASIS ON
EJECTION AT SAFE ALTITUDE
A64-20697

ROCKET ASSISTED EJECTION ADVANTAGE OVER BALLISTIC EJECTION, CONSIDERING SYSTEM MALFUNCTION, PILOT INJURIES, ACCIDENT CAUSES AND ALTITUDE

AIR FORCE AIRCRAFT ACCIDENTS RESULTING IN INJURIES AND FATALITIES - RECOMMENDATIONS FOR SURVIVAL A64-80503

IMPROVEMENT OF ROCKET EJECTION SYSTEM LIFE-SAVING CAPABILITY THROUGH SYSTEM REFINEMENT AND AIRCREW TRAINING A64-80946

CHZHAN, K.

STREPTONYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN

SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION

A64-28414

CIRINCIONE, P. A.

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE
FILTERS AND STRUCTURES
NAVTRADEVCEN-IH-14

N64-28902

CLAMANN, H. G.
TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN
MAN
N64-12864

MEDICAL PROBLEMS OF CREW HEALTH IN CLOSED ECOLOGICAL SYSTEM N64-24629

HAZARDS IN OXYGEN ENVIRONMENT

N64-30727

CLAPPER, W. E.
INOCULATION OF DOG LIVER WITH VIRUS FOR
SUSCEPTIBILITY TEST
LF-10

N64-13344

CLARK, B.
VESTIBULAR STIMULATION EFFECTS ON VISUAL PERCEPTION FROM MANNED SPACE FLIGHT

A64-10629

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR DEFECTS NACA-CR-55614 N64-15355

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC ILLUSION N64-22434

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438

CLARK, C. C.

MANNED IMPACT TESTS OF ACTIVE ELASTIC RESTRAINT
SYSTEM, USING PRESSURIZED AIRBAGS ABOUT THE HUMAN
AIAA PAPER 64-220
A64-20231

SPACE RADIATION HAZARDS TO MAN AND MEANS OF A64-80648

RESTRAINT & PROTECTION OF HUMAN EXPERIENCING SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING SPACE FLIGHT

ELASTIC AIRBAG RESTRAINT SYSTEMS FOR VIBRATION AND IMPACT PROTECTION OF ASTRONAUTS OR AIRCRAFT PASSENGERS N64-24972

AIAA PAPER-64-220

CLARK, F. C.
ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE NASA-RP-188 N64-22094

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR UR-FNG-49-7 N64-19921

CLARK, W. B. AEROMEDICAL PROBLEM OF DETECTING AND HANDLING OF PATIENTS WITH GLAUCOMA, USING TONOMETRIC TECHNIQUES A64-10264

VISUAL POTENTIALITIES OF MAN IN SPACE

A64-16118

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720

ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA RHYTHMS/ DURING MENTAL ACTIVITY IN HUMANS A64-81043

CLARKE, D. H.
HOT AND COLD WATER IMMERSION EFFECT ON RECOVERY OF MUSCULAR STRENGTH FOLLOWING FATIGUING ISOMETRIC **EXERCISE** A64-80080

CLARKE. N. P. HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA A64-12941

B-58 ESCAPE CAPSULE FLIGHT TEST OF EIGHT EJECTIONS AT SUBSONIC AND SUPERSONIC SPEEDS TO ESTIMATE HUMAN RESPONSE TO ACCELERATION A64-13510

HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION **PATTERNS** A64-13518

MANS SHORT TIME TOLERANCE TO SINUSOIDAL VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN THREE ORTHOGONAL AXES A64-27596

MECHANICAL IMPEDANCE MODEL TO DEVELOP QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION

A64-27599

HUMAN BODY RESPONSE TO ACCELERATION, VIBRATION AND IMPACT IN PRESENCE OF OTHER STIMULI

A64-28345

CLARKSON, J. K.
CUEING AS TRAINING METHOD FOR SIMPLE AUDITORY
DETECTION TASKS NAVTRADEVCEN-3143-1 N64-22518

CLAUS. G. ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES SUGGESTING BIDGENIC ORIGIN A64-80452

HISTOPATHOLOGY OF EXPERIMENTAL DECOMPRESSION SICKNESS IN THE DOG, NOTING BONE MARROW EMBOLI AND
FAT EMBOLIZATION A64-13514

CLAY. M. H. COLD AND RESTRICTION STRESS EFFECT ON ACID MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE TISSUE AND ENDOCRINE GLANDS IN RAT A64-80514 CLEMEDSON, C .- J. INTEGRATED HUMAN RESEARCH TO DETERMINE PERFORMANCE CAPABILITIES UNDER NORMAL AND ABNORMAL INTERNAL AND EXTERNAL ENVIRONMENTS A64-20689

STERILIZATION OF LUNAR AND PLANETARY SPACECRAFT TO AVOID CONTAMINATION BY TERRESTRIAL MICRODRGANISMS AND ORGANIC MATTER A64-28456

SENSORY-PHYSIOLOGICAL PROBLEMS IN SPACE FLIGHT ARISING FROM STIMULATION OF VESTIBULAR APPARATUS A64-R0351

HUMAN TOLERANCE TO COMBINED SPACE FLIGHT STRESSES A64-80495

DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT EXPOSED TO AIR SHOCK WAVES A64-81 A64-81063

CLINE, V. B. INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION -**PSYCHOLOGY** AD-436402 N64-24234

CLOSE, P. IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE AND CONTAINMENT A64-14002

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS A64-25551

BIOLOGICAL EFFECT OF MAGNETIC FIELD ON DROSOPHILA NASA-CR-55625 N64-15346

CLYMER, A. B.
APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL

COMPUTERS IN LIFE SCIENCES - BIBLIOGRAPHY N64-17491

COBB, B. B. AIR TRAFFIC CONTROL SPECIALIST TRAINING PERFORMANCE PREDICTIONS BASED UPON APTITUDE TEST, PREEMPLOYMENT AND JOB RELATED EXPERIENCE

AIR TRAFFIC MANAGEMENT - IMPLICATIONS OF AGE AT ENTRY FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS A64-80

APTITUDE TEST MEASURES FOR SELECTION OF TOWER AIR TRAFFIC CONTROL TRAINEES A64-81334

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS

CARI-63-31

N6 N64-29848

SPACE CABIN ENVIRONMENT AND SPACE FLIGHT STRESSES 464-80226

IDENTIFICATION OF VARIABLES IN REPORTING PHYSIOLOGICAL EFFECTS OF ACCELERATION STRESS A64-80867

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS A64-61002 A64-81002

COCKETT, A. T. K.
CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD
PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS IN DOG

CODE, C. F.
PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION A64-80116

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TDR-63-106 N64-1680 N64-16808 COE, C. S.

CARBON DIOXIDE MANAGEMENT IN SPACECRAFT
ATMOSPHERES USING MOLECULAR SIEVES AND REDUCED
TEMPERATURE
A64-80536

COERMANN, R.

DYNAMIC PROBLEMS OF HUMAN BODY IN SPACE
ENVIRONMENT EXAMINING EFFECTS OF NOISE, VIBRATION
AND IMPACT ON PILOT EFFICIENCY

A64-27026

COHEN, A.

COMPARISON OF BROADBAND NOISE AND CONTINUOUS

SPECTRUM NOISE IN CAUSING TEMPORARY HEARING LOSS

A64-21334

AIRCRAFT NOISE AT AIRPORTS - EFFECT ON NEARBY
COMMUNITIES AND ON WORKING ENVIRONMENT OF AIRPORT
PERSONNEL A64-80369

TEMPORARY HEARING LOSS FOLLOWING EXPOSURE TO PRONOUNCED SINGLE FREQUENCY BROADBAND NOISE

A64-80649

COMEN, B.

EYE MOVEMENTS AND MUSCLE ACTIVITY RESULTING FROM ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN CAT

A64-80461

PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT A64-80760

COHEN, B. J.
GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS
AFFECTED BY CONFINEMENT AND EXERCISE

A64-80067

COHEN, D.
HUMAN WASTE COLLECTION AND STORAGE DURING SPACE
FLIGHT
AMRL-TDR-64-3
N64-18041

EVIDENCE FOR AND AGAINST THE PRESENCE OF EXTRATERRESTRIAL LIFE FORMS IN THE ORGUEIL METEORITE A64-80161

COHEN, L. A.
DISORIENTATION INDUCED BY HALLUCINOGENIC DRUGS IN
MACACA NEMESTRINA A64-14000

SPATIAL ORIENTATION DURING SPACE TRAVEL AND USE OF HALLUCINOGENS TO TRAIN ASTRONAUTS TO PERFORM UNDER CONDITIONS OF DISORIENTATION A64-81325

COHEN, L. D.

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL
VIGILANCE TASKS AT VARYING SPEEDS
PHS-G-GM-05385

A64-80129

COHEN, N.

SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL

SENSATIONS IN PERCEPTUAL ISOLATION

A64-80510

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES
INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY
SENSATIONS
A64-80897

COHEN, R. L.
MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED
SLUDGE CELLULOSE - METABOLIC WASTE
SAM-TDR-64-25 N64-27494

SLUDGE CELLULOSE - METABOLIC WASTE
SAM-TDR-64-25 N64-27494

COHEN, S.
SENSORY DEPRIVATION AND LYSERGIC ACID

CONSIDERATIONS A64-80678
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE

DIETHYLAMIDE /LSD/ EFFECT-PHYSIOLOGICAL

ARL-TDR-63-28

COHEN, S. I.

COGNITIVE STRUCTURING, FIELD DEPENDENCE—
INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO
PERCEPTUAL ISOLATION

A64-80727

COIN, J. B.

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE

OF HEART AND RESPIRATORY RATES OF RATS TO

ACCELERATION

A64-B0031

COLBY, S. J.

MANNED SPACE STATION FOR BIOLOGICAL AND ENGINEERING RESEARCH

A64-80011

COLE, E. M.
SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL
AND HUMAN FACTORS RESEARCH IN EARTH ORBITING
STATIONS
A64-80850

COLE, J. N.
AIRCRAFT NOISE EVALUATION AS RELATED TO
RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING
A64-80682

COLE, L. J.
PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED
DEDXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
USNRDL-TR-655 N64-24185

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNROL-TR-740 N64-27649

COLE, R. B.
INSPIRED OXYGEN TENSION VARIATION AND ALVEOLAR—
ARTERIAL OXYGEN TENSION DIFFERENCE IN SITTING AND
SUPINE MALES AND FEMALES

A64-80187

COLEHOUR, J. K.

HEMATOLOGY AND BIOCHEMICAL STRESS EFFECTS OF
CORIOLIS ACCELERATION DURING ZERO-GRAVITY
PARABOLIC FLIGHT

A64-25547

LEUKOCYTE, CORTICOSTEROID, AND CATECHOLAMINE
RESPONSE TO CORIOLIS ACCELERATION DURING
ZERO-GRAVITY PARABOLIC FLIGHT A64-80921

EFFECT OF CORIOLIS ACCELERATION DURING ZERO GRAVITY FLIGHT ON CERTAIN HEMATOLOGICAL AND URINARY PARAMETERS IN NORMAL AND LABYRINTHINE DEFECTIVE SUBJECTS NASA-CR-58675 N64-28876

COLES, R. R. A.
PROCEDURES DEVISED FOR DIVERS, SUBMARINERS, AND
PILOTS FOR CHECKING THEIR ABILITY TO REGULATE
PRESSURE IN MIDDLE EAR
A64-80949

COLIN, J.

HUMIDITY IN THE CABIN OF A DOUGLAS DC-8 AIRLINER
DURING COMMERICAL FLIGHT

A64-80025

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS

A64-80771

COLLET, M.
MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME
OPERATION WITHOUT REFUELING
EUR-407.F
N64-10465

COLLIER, C.

DETERMINING HEART PARAMETERS ON BASIS OF SKIN
POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL
RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS
RM-4138-NIH
N64-26475

COLLIER, D. R., JR.
VESTIBULAR, AND CARDIOVASCULAR RESPONSES TO
WEIGHTLESSNESS AND ADAPTATION TO INCREASED G
FORCES AS RELATED TO PULSE, BLOOD PRESSURE,
RESPIRATION, AND ELECTROCARDIOGRAM
A64-

A64-80845

COLLINS, W. E. ELICITATION OF SECONDARY AND INVERTED PRIMARY NYSTAGMUS FROM THE CAT WITH VESTIBULAR STIMULATION BY REPEATED UNILATERAL CALORIC IRRIGATION

N64-13854

A64-13521

HABITUATION TO ROTATION RESULTING IN CHANGES IN PRIMARY, SECONDARY, AND CALORIC NYSTAGMUS

A64-80620

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION

A64-80999

ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGNUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

NYSTAGNUS RESPONSES OF CATS TO ROTATION AND DIRECTIONAL STIMULI AFTER CALORIC HABITUATION OF ONE EAR - VESTIBULAR EFFECT CARI-63-14

PRIMARY, SECONDARY, AND CALORIC MYSTAGMUS OF CATS FOLLOWING HABITUATION TO ROTATION N64-14544

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS NASA-CR-55756

EFFECT OF REPEATED MILD ANGULAR ACCELERATIONS IN TOTAL DARKNESS ON HUMAN VESTIBULAR NYSTAGMUS WHILE SUBJECTS PERFORM ATTENTION-DEMANDING TASKS CARI-63-29 N64-29847

COLLINS, W. R., JR.
FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY HASL-132 N64-12908

FALLOUT - RADIONUCLIDE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE HAS1-135 N64-12909

RADIDACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, MATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142 N64-13329

COLQUHOUN, W. P. VIGILANCE DECREMENT AS FUNCTION OF PRETEST A64-80938

MONITORING TRACE CONTAMINANTS IN SIMULATED MANNED SPACECRAFT A64-80538

CONNORS, M. M. HUMAN COLOR DISCRIMINATION IN PURPLE REGION A64-27753

REACTION TIME UNDER THREE VIEWING CONDITIONS -BINOCULAR, DOMINANT EYE, AND NONDOMINANT EYE A64-80229

CONSOLAZIO. C. F. EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT REPT.-280 N64-23896

RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN A64-80312

STATIC VOLUME-PRESSURE CHARACTERISTICS OF RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN RELATION TO MUSCLE TONUS A64 A64-81000

COOK, R. N. PHOTO INTERPRETATION PERFORMANCE AS FUNCTION OF PHOTOGRAPHIC RESOLUTION AND CONTRAST N64-10529

COOKE, H. M. PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

COMMUNICATION AND SOUND TRANSMISSION IN SPACE CABIN ATMOSPHERE OF HELIUM AND OTHER GASES AT REDUCED PRESSURE A64-81323 SOUND ATTENUATION IN ATMOSPHERES OF AIR, NITROGEN, DXYGEN, HELIUM AND 50-50 HELIUM-DXYGEN MIXTURES AT LOW PRESSURES SAM-TDR-64-43

COOMBER, J. E. B.
EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND
CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION NASA-CR-56130

WATER PHOTOLYSIS AND DXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR

NASA-CR-59220 N64-33124 COONE, H. W.

CONTACT DERMATITIS OF HANDS OF PILOT DUE TO WEARING UNLINED FLIGHT GLOVES, NO. 83A

A64-80098

COOPER, K. H. MONITORING ELECTROCARDIOGRAMS ON ACTIVELY EXERCISING SUBJECTS SAM-TDR-64-38 N64-31050

COOPER, T.
PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG DURING SURFACE HEATING

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-1294:

COOPER, W. R. RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR N64-21837

COPE, F. W.
KINETIC THEORY OF ION TRANSPORT ACROSS BIOLOGICAL CELL SURFACES NADC-MA-6325 N64-15051

COPELAND, W. C.
NOISE RATING SCALES FOR EVALUATION OF INFLIGHT AIRCRAFT NOISE A64-12996

PSYCHOLOGICALLY PRODUCED HYPERVENTILATION IN AIRCRAFT ACCIDENTS AND METHODS OF PREVENTION A64-80818

CORCORAN, D. W. J. SLEEP LOSS EFFECT ON VIGILANCE LESSENED BY INCREASE IN RATE OF SIGNAL PRESENTATION A64-80078

SLEEP DEPRIVATION EFFECT ON HEART RATE AND PERFORMANCE IN MAN A64-81114

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION **PROCEDURES** SAM-TDR-63-73 N64-25040

CORDAY, E. EXERCISE TEST TO DEMONSTRATE CORONARY INSUFFICIENCY A64-80777

PHYSICAL EFFECTS OF WOBBLE, STATIC AND DYNAMIC UNBALANCE, DOCKING AND CREW MOVEMENTS ON ROTATING SPACE STATION AIAA PAPER 64-335 A64-20358

SELECTION AND TRAINING REQUIREMENTS FOR BIOMEDICAL AND HUMAN FACTORS RESEARCH IN EARTH ORBITING STATIONS A64-80850

CORREALE, J. V.
PROJECT APOLLO SPACE SUIT AND LIFE SUPPORT
EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL
A64-18257

MERCURY PRESSURE SUIT AND SPACE SUIT DESIGN FOR PROJECT GEMINI, NOTING TEMPERATURE CONTROL BY VENTILATION DISTRIBUTION SYSTEM

A64-18995

- CORREIA, M. J.
 GRAVITATIONAL EFFECT ON CUPULA DISPLACEMENT
 NASA-CR-56791
 N64-27891
- CORRICK, J. D.
 CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH
 AUTOTROPIC BACTERIA MINERALOGY
 BM-RI-6423
 N64-18987
- CORSI, G. C.
 SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS
 INTOXICATED WITH TETRAETHYL LEAD

 A64-80404

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID
IN TETRAETHYL LEAD POISONING OF RABBITS

A64-81085

- CORTEEL. A.
 HUMIDITY IN THE CABIN OF A DOUGLAS DC-8 AIRLINER
 DURING COMMERICAL FLIGHT A64-80025
- CORTESINA, G.
 LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,
 TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON
 VESTIBULAR FUNCTION IN RABBIT A64-80981
- COSTELLO, L. C.
 CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES
 DURING EMBRYONATION N64-32225
- COTZIAS, G. C.
 TRACE METAL ESSENTIAL OR DETRIMENTAL TO LIFE
 BNL-828-/T-323/ N64-21733
- COUCHMAN, C. C.

 PHYSICAL EFFECTS OF WOBBLE, STATIC AND DYNAMIC
 UNBALANCE, DOCKING AND CREW MOVEMENTS ON ROTATING
 SPACE STATION
 A1AA PAPER 64-335

 A64-20358
- COULES, J.

 HUMAN ENGINEERING IN POWER GENERATOR AND VOICE
 COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR
 TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
 ESD-TDR-63-656
- COVELL, W. P. NOISE INDUCED DEAFNESS IN CAT A64-80308
- COWLEY, R. A.

 EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN
 THE HUMAN A64-80084
- COWPER, G.
 GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL
 AT NUCLEAR RESEARCH FACILITY
 AECL-2050
 N64-32308
- COX, P. A.
 SPONTANEOUS PNEUMOTHORAX IN FLYING PERSONNEL ITS
 ETIOLOGY, PATHOLOGY, DIAGNOSIS, AND TREATMENT
 A64-80096
- METABOLIC INTERCHANGES OF MAN FOR DESIGN OF SPACE
 VEHICLES
 SM-45905
 N64-27338
- CRADDICK, R. A.
 PSYCHOLOGICAL CORRELATES OF BIODYNAMIC STRESS DESCRIPTION OF SIX MEN SUSTAINING OVER 500
 ACCUMULATED G A64-80095
- CRAIG, D.

 EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN
 LIVER AND MARROW OF MICE IRRADIATED WITH FAST
 NEUTRONS, GAMMA-, AND X-RAYS
 USNRDL-TR-740
 N64-27649
- CRAIG, F. N.
 REGULATION OF BREATHING AT BEGINNING OF EXERCISE
 A64-80117
- CRAMER, E. H.
 AIRCRAFT ACCIDENT INVESTIGATION WITH AID OF
 HYPNOTIC RECALL
 A64-8033

CRAMER, K. R.
ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS
IN SPACE SUITS USING WATER
AMRL-TDR-63-80
N64-13653

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION AMRL-TDR-63-102 N64-15093

- CRAMER, R. L.
 VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO
 HARMONIC STIMULATION OF THE HORIZONTAL
 SEMICIRCULAR CANAL
 A64-10257
- CRANE, C. R.

 COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS
 UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH
 OXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK
 CARI-63-27
 N64-23618
- CRANE, H. D.
 PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION
 BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR
 DESIGN OF TACTILE COMMUNICATION DEVICE
 ASD-TDR-63-732
 N64-14689
- CRANFORD, T. N.
 BIBLIOGRAPHY OF LITERATURE OF DETECTION
 INSTRUMENTS USED TO MONITOR TOXIC GAS
 CONCENTRATION IN ATMOSPHERE
 SID-63-755
 N64-10137
- CRANNELL, C. W.
 SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST
 ANXIETY SCALE A64-80936
- CRANSTON, W. I.

 DIURNAL VARIATION IN PLASMA VOLUME AND HEMOGLOBIN
 CONCENTRATION OF NORMAL AND HYPERTENSIVE SUBJECTS
 TREATED WITH GUANETHIDINE OR OTHER DRUGS
 A64-81095
- CRAWFORD, 8. M.
 COMPARISON OF JOY STICK WITH MULTIPLE LEVERS FOR
 EFFECTIVE CONTROL-EFFECTOR RELATIONSHIPS IN REMOTE
 MANIPULATOR APPLICATIONS
 A64-26852
- CRAWFORD, M. L. J.
 CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO
 CONFINED GROUPS WITH AND WITHOUT REFERENCE TO
 CLOCK TIME
 A64-80747
 - TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY A64-8077
- CREELMAN, C. D.

 BANDPASS FILTERING EFFECTS ON LOUDNESS OF GATED
 AUDITORY SIGNALS RELATIVE TO UNFILTERED SIGNALS,
 RELATING DETECTABILITY SCALE AND LOUDNESS-MATCHING
 DATA
 A64-19520
- CRETEL, J. P.
 ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY
 MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION
 A64-81153
- CRISMON, Jo Ho DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN AD-405777 N64-20445
 - DISTRIBUTION OF BLOOD FLOW IN HUMAN SKIN AD-411171 N64-25383
- CROCKETT, A. T.

 QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD
 FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL
 ISCHEMIA
 UCLA-12-523
 N64-21215
- CROCKFORD, G. W.
 RADIAL VENTILATED GARMENT FOR USE IN TEMPERATURES
 UP TO 200 DEG CENTIGRADE
 A64-80875
- CROMARTIE, H. J.
 EMERGENCY MEDICAL SERVICE IN SHELTERS IN POSTNUCLEAR ATTACK
 OU-107
 N64-20811

CROMPTON, J. VISUAL AIDS FOR MANUFACTURING PERSONNEL IN PRODUCTION OF ATOMIC WEAPONS SC-4959/M/

N64-14997

CRONIN. L.

FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT DXYGEN A64-8081 A64-80817

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL DXYGEN CONCENTRATION AMRL-TDR-63-104 N64-16806

CROSBIE, R. J.
FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR
TURBULENCE ON JET AIRLINE PILOTS NADC-ML-6411 N64-31666

CROSBY, H. J.
SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942

N64-24606 CROSS, C. A. TOPOGRAPHICAL AND METEOROLOGICAL ASPECTS OF MARS

AS RELATED TO LIFE SUSTAINING CAPABILITY A64-80527

HYPOXIC EFFECTS ON HEART AND CIRCULATION

A64-80101

CROSS, K. FACILITATIVE INTERACTION BETWEEN TWO SEPARATE CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY, CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO THO-HAND CRANKING TASK 464-26851

CROSSMAN. E. R. F. W. INFORMATION THEORY APPLIED TO DEVELOPMENT OF SKILL A64-80381

CRONELL. J. W.
HEMATOCRIT RATIO AND SURVIVAL OF UNACCLIMATIZED DOGS AT SIMULATED ALTITUDE 464-80103

CULLEN. K. J. ELECTROCARDIOGRAMS OF MARATHON RUNNERS

A64-R0951

CULVER, C. M.
COGNITIVE STRUCTURING, FIELD DEPENDENCEINDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO PERCEPTUAL ISOLATION A64-80727

CULVER, VER, J. F.
EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE
VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/ A64-10254

AEROMEDICAL PROBLEM OF DETECTING AND HANDLING OF PATIENTS WITH GLAUCOMA, USING TONOMETRIC **TECHNIQUES** A64-10264

PHOTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM A64-12989

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETWEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH A64-13511

VISUAL POTENTIALITIES OF MAN IN SPACE

A64-16118

DIAGNOSIS AND TREATMENT OF CORNEAL ENDOTHELIAL DYSTROPHY IN FLYING PERSONNEL A64-8 A64-80693

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720

CUMMING, G. RESPIRATORY FREQUENCY AND COMPLIANCE AT DIFFERENT LUNG VOLUMES A64-80108

CUMMINGS, E. G. REGULATION OF BREATHING AT BEGINNING OF EXERCISE A64-80117

CURATOLD, G. RESPIRATORY OUTPUT DURING WORK AS AFFECTED BY AMPHETAMINE AND METHAMPHETAMINE COMBINATION A64-80721

CURETON, T. K. FACTOR ANALYSIS OF CARDIOVASCULAR TEST VARIABLES A64-81224

CURRY. A. S. TOXICOLOGICAL METHODS FOR DETECTION OF POISONOUS COMPOUNDS OF INTEREST IN AEROSPACE MEDICINE

CURTIS. H. J.
BIOLOGY OF AGING USING IONIZING RADIATION STUDIES BNL-854/T-340/ N64-21591

CURTIS, J. L. OCULAR DEFECTS DISQUALIFYING AIR FORCE RECRUITS A64-12142

CUTLER. R. G. HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE OXYGEN RICH ATMOSPHERE A64-80323

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN SAM-TDR-63-52

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE STILLS SAM-TDR-63-59 N64-12855

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED DXYGEN TENSION SAM-TDR-63-64

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

D

INPUT FACTORS AFFECTING ACCURACY WITH WHICH OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET DISPLAYS DAHEQUIST, E. A64-21610

DAHL, N. A. PROLONGED ANOXIC SURVIVAL OF RAT DUE TO ANOXIA
PRE-EXPOSURE AS RELATED TO BRAIN ADENOSINE
TRIPHOSPHATE, LACTATE, AND PYRUVATE CONCENTRATIONS

DAHLEN. R. W. HYPOTHERMIA AND THE CARDIOVASCULAR SYSTEM AND ELECTROCARDIOGRAM OF CATS A64-80159

DAIL, C. PHOTO RECORDING ELECTROMYDGRAPH FOR PHYSIOLOGICAL **PHENOMENA** A64-80260

DALLOS. P. INTEGRATION OF ENERGY BY EAR THRESHOLD TESTED, USING TONE PIPS AS STIMULI A64-17999

ACOUSTIC REFLEX OF MIDDLE EAR UPON STEP STIMULATION OF WHITE NOISE STUDIED BY VARIATION OF INPUT IMPEDANCE TO HUMAN SUBJECTS A64-23808

DALTON, G. A. HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASOUND ON LABYRINTH AND TEMPORAL BONE A64-80979

DALY, R. L.
SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

A64-80316 A64-80316

DALY, R. M.
PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT
MOVEMENT AS FUNCTION OF BACKGROUND STIMULI
A64-80580

DAMATO, M. J.
RAPID DECOMPRESSION HAZARDS AFTER PROLONGED
EXPOSURE TO 50 PER CENT OXYGEN-50 PER CENT
NITROGEN ATMOSPHERE
A64-10259

PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS RELATED TO SKIN AND RECTAL TEMPERATURES

A64-80179

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

DAMOISEAU, J.
OXYGEN CONSUMPTION DURING DIFFERENT TYPES OF
EXERCISE A64-80055

PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND RECUMBENT POSITION A64-80058

DAMON, E. G.
EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE
TO AIR BLAST
DASA-1483
N64-21078

DANIEL, S. S.
TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN
BLOOD OF HUMAN ADULT AND NEWBORN

A64-81012

DANILEIKO, V. I.

ELECTROCARDIDGRAM OF SNAKES, COLUBER JUGULARIS AND PTIAS MUCOSUS, UNDER NORMAL CONDITIONS AND DURING HYPOXIA

A64-81289

DANILEVICH, L. T.
ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF
HEART N64-30393

DANILEYKO, V. 1.
BIOLOGICAL EFFECT OF COSMIC AND SOLAR RADIATIONS
ON HUMAN BODY AT HIGH ALTITUDES
N64-11700

DAOUST, D. L.

EFFECTS OF MASSIVE DOSES OF IDNIZING RADIATION
UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES
DASA-NHER-03.008
N64-15993

DAPSHIS, V. M.

LOWER LIMIT OF FRONT GAS REACTIONS DETERMINED IN

COMBUSTIBLE MIXTURES OF DRGANIC WASTE IN LIMITED

AND UNLIMITED SPACE

A64-25614

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780

DAUGHERTY, R. M.
PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE,
VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND
HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND
HYPERTENSIVE SUBJECTS
A64-81002

DAVID, A.
OCCUPATIONAL CHARACTER OF LEUKEMIAS IN PERSONS
EXPOSED TO BENZENE A64-80366

DAVIDON, R. S.

APPARENT DISTANCE IN HORIZONTAL PLANE WITH
TACTILE-KINESTHETIC STIMULI IN RELATION TO SPACE
PERCEPTION

A64-80969

DAVIDS, D. J.
MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE
A64-80660

DAVIDSON, W. H.

REVIEW OF 273 CASES OF EJECTION FAILURES, GIVING
THE FATAL INJURY PATTERNS AND TOXICOLOGIC TEST
RESULTS

A64-10263

PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS

A64-80132

PATHOLOGY OF LIGHT AIRCRAFT ACCIDENTS

A64-80177

DAVIES, A. D. M.
PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED,
AND OLD INDIVIDUALS OF SIMILAR NONVERBAL
INTELLIGENCE
A64-81115

DAVIES, C. T. M.
HEART RATE AND OXYGEN CONSUMPTION OF HEALTHY
HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION
FROM REST TO EXERCISE IN RELATION TO EXERCISE
TOLERANCE
A64-81007

DAVIES, D. R.
AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT
LOW SIGNAL FREQUENCY
A64-80130

DAVIES, N. E.
IN FLIGHT HYDROCARBON JET FUEL INTOXICATION ON
PILOT
A64-19143

DAVIS, A. W., JR.
PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE —
ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM
CARI-63-12
N64-14409

DAVIS, E. E.
HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION
SAM-TR-63-82
N64-30498

DAVIS, G.
TOXIC EFFECTS OF ELEVATED OXYGEN LEVELS ON PLANTS,
INVERTEBRATES AND HUMAN CELLS A64-10258

DAVIS, H.

ENVIRONMENTAL CONTROL, REPLENISHMENT AND STABILITY
OF SPACE LIFE SUPPORT SYSTEM WITH PRIMARY
CONSIDERATION GIVEN TO OXYGEN-CARBON DIOXIDE AND
THE WATER CYCLE
AIAA PAPER 63-65
A64-14332

EVOKED CORTICAL POTENTIALS DURING PERFORMANCE OF TASK REQUIRING DECISION IN DISCRIMINATING FILTERED SOUNDS A64-80621

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425085 N64-136

DAVIS, H. A.

SPECTROPHOTOMETRIC DETERMINATION OF CARDIAC OUTPUT
BY MEANS OF NEW DYE, PATENT BLUE A

A64-80540

DAVIS, H. L.
SAFETY PROBLEMS IN NUCLEAR SPACE SYSTEMS
ENGINEERING, INCLUDING STUDY OF SNAP AND NERVA
PROJECTS
A64-11918

DAVIS, H. T.

SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY FROM SIMULATED NUCLEAR FLASH ON AIRCREM MEMBERS

A64-80327

DAVIS, N. S.

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON MICROORGANISMS

A64-24980

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288 N64-15181

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-50333 N6

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-56524 N64-22785

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY
OF MICRODRGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786

- DAVIS, T.

 RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM
 UR-648
 N64-31319
- DAVIS, N. V.

 HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED
 FOR DENTAL SURGERY
 SAM-TDR-63-11

 N64-12366
- DAYYDOV, B. I.
 ENDURANCE VARIATIONS IN MICE SUBJECTED TO
 ACCELERATION, X-RAY AND PROTON IRRADIATION
 A64-27273
- DAVYDOVA, N. V.
 INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND
 SALMONELLA THYPIMURIUM
 JPRS-18092
 N64-1121
- DAVYDOVA, S. A.

 EFFECT OF SEX HORMONES ON ACUTE RADIATION SICKNESS
 IN RATS AND MICE
 JPRS-22000
 N64-10392

PROTECTIVE AND THERAPEUTIC EFFECT OF SOMATOTROPIC HORMONE IN RADIATION SICKNESS N64-12769

- DAWES, G. S.
 BRAIN CIRCULATION, OXYGEN SUPPLY, AND ANDXIC
 SURVIVAL
 N64-14584
- DAMSON, G. W. P.
 GENETIC INSTABILITY IN BACTERIA AND PRESENCE OF
 CONTROLLING EPISOMES
 QTSR-1
 N64-32514
- DAMSON, J. E.
 PLANT STUDY EFFECT OF TEMPERATURE, MOISTURE AND
 LIGHT ON COMPOSITION OF PLANTS GROWN BY USE OF ION
 EXCHANGE RESINS AS MEDIA
 RADC-TDR-63-183
 N64-21353
- DAY, R. H.
 SPATIAL AFTEREFFECTS WITHIN AND BETWEEN
 KINESTHESIS AND VISION
 A64-81197
- DE BIAS, D. A.

 THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE—
 EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL
 SAM-TDR-63-101
 N64-15746
- DE BUSK, A. G.
 BIOSATELITE PROJECT MUTATION BY RADIATION AND
 BIOPHYSICAL STUDIES
 NASA-CR-50046
 N64-22757
- DE FRANCISCIS, P.
 PURIFICATION AND IDENTIFICATION OF FACTOR FROM
 CALF SPLEEN WHICH PREVENTS RADIATION INJURIES
 AD-432125
 N64-16831
- DE JUAN, P.
 VESTIBULAR RECEPTORS FINE STRUCTURE AND FUNCTION
 A64-80302
- DE LEO, J. D.
 ERYTHROCYTES, LEUKDCYTES, AND HEMOGLOBIN OF MOUSE
 EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC
 FIELDS
 A64-80841
- DE PADUA, C. B.
 ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD
 CIRCULATION AND HEART FUNCTION IN MAN
 A64-80319

DE ROBERTIS, E.
MATER & ION SHIFTS IN CENTRAL NERVOUS SYSTEM OF
FROG - MORPHOLOGY N64-14593

- DE SOCIO, E.
 ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING
 TASKS UNDER STRESS
 AD-428112
 N64-14168
- DE STEIGUER, D.
 MEDICAL CLINIC INVESTIGATION OF WATER
 RECOVERED FROM HUMAN URINE
 AMRL-TOR-63-70

N64-11445

- DE TROPAREVSKY, M. L. P.
 THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D
 AND CHOLESTEROL
 N64-32016
- DE VITA, C.

 CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS
 AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY
 INTERMITTENT AUDITORY STIMULATION

 A64-80722
- DEAL, P. H.
 BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN
 CONDITIONS AND POSSIBLE EFFECTS ON EXTRATERRESTRIAL LIFE
 A64-24948
 - DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED BACTERIA N64-10989
 - BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT NASA-TM-X-50873 N64-22777
- COMPUTER TO MAN INFORMATION TRANSFER COMPARING TECHNOLOGY WITH INTUITION A64-22531
- DEBRAY, C.
 COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS,
 DISTILLED, AND VICHY WATER ON WATER TOXICITY
 NASA-TT-F-9108
 N64-33392
- DECHER, H.

 ROTATIONAL STIMULUS THRESHOLDS OF VERTICAL
 SEMICIRCULAR CANALS BY ELECTRO— AND
 PHOTOELECTRONYSTAGMOGRAPHY A64-80373
- DECDURSEY, G.
 ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE
 BAT ADAPTIVE ASPECTS A64-80212
- DECOURSEY, P. V.
 ACTIVITY RHYTHMS IN GREATER EUROPEAN HORSESHOE
 BAT ADAPTIVE ASPECTS A64-80212
- DEDIULIN, I. M.
 SODIUM-POTASSIUM ION SHIFT IN HUMAN BLCOD PLASMA
 AND ERYTHROCYTE A64-81271
- DEFIBAUGH, J. J.
 JOINT MOTION MEASUKING METHODS AS APPLIED TO HEAD
 MOVEMENT A64-81129
 - HEAD MOTION OF ADULT MALES MEASURED WITH HEAD GONIOMETER A64-81130
- DEGENS, E. T.
 GENETIC RELATIONSHIPS BETWEEN ABIOTIC AND BIOGENIC DRGANIC MATTER IN METEORITES AND SEDIMENTS
- DEHAVEN, J. C.
 COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL
 ANALYSIS AND BY DIGITAL COMPUTER

 A64-80543
- DEJOURS, P.
 PULMONARY VENTILATION ADJUSTMENT TO HIGH ALTITUDE
 EXERCISE
 A64-23256
 - VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPERDXIA IN NORMAL AND CHEMODENERVATED DOGS A64-80052
 - CONTINUOUS MEASUREMENT OF ALVEOLAR AIR COMPOSITION . A64-80056
 - CARBON DIOXIDE VENTILATORY STIMULUS AND RELATION TO NEUROGENIC VENTILATORY STIMULUS OF MUSCULAR EXERCISE A64-81219
- DEL DUCA, M. G.

 LIFE SUPPORT SUBSYSTEMS CONSIDERING FOOD, WATER,
 WASTE, ATMOSPHERIC AND THERMAL CONTROLS

 ... A64-20257
 - LIFE SUPPORT SYSTEMS FOR FUTURE ORBITAL AND EXPLORATORY MISSIONS FOR PERIODS UP TO A YEAR A64-80563

- DEL RIO, H. G.
 RADIOISOTOPES IN CLINICAL MEDICINE LOCALIZATION
 OF PLACENTA IN GASTROINTESTINAL TRACT
 N64-24007
- DEL VECCHIO, R. J.
 HUMAN TOLERANCE TO TRANSVERSE ACCELERATION AND
 DECELERATION FORCES
 N64-22075
- DELAGE, R.
 FRONTAL MUCOCELE REVEALED BY BAROTRAUMA
 A64-80034
- DELAHAYE, R.
 INTRAVENOUS UROGRAPHY IN AIRCREWS

A64-80033

- DELAHAYE, R. P.
 THORACIC RADIOPHOTOGRAPHY AND RADIOSCOPY IN
 SELECTION AND PERIODIC EXAMINATION OF MILITARY
 FLYING PERSONNEL IN FRANCE
 A64-80303
 - POSSIBLE HAZARD OF GALACTIC AND SOLAR RADIATION
 BETWEEN 20 AND 30 KILOMETERS A64-80770
 - REVIEW OF STUDIES OF RADIATION EFFECTS ON ANIMALS AND PLANTS A64-80773
 - REVIEW OF COSMIC RAY EFFECTS ON BIOLOGICAL MATERIAL ON EARTH, IN AIR, AND IN SATELLITE A64-80912
- DELALLA, O. F.
 PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL
 LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN
 POPULATION N64-15213
- DELAND, E. C.
 COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL
 ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

- DELANY, M. E.
 ACOUSTICAL IMPEDANCE PRESENTED TO EARPHONES BY
 HUMAN EAR IS CRITICAL DESIGN FACTOR OF ACCURATE
 ARTIFICIAL EAR
 A64-26636
- DELIBERATO, V. C.
 BIOS I RECOVERY VEHICLE DESIGN AND EXPERIMENTAL
 MISSION A64-80275
- DELONE, N. L.
 CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA
 MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT
 A64-11351
 - CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT A64-17074
 - ORGANIC CHANGES PRODUCED ON MICROSPORES TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT A64-18575
 - WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON REPRODUCTION IN DROSOPHILA MELANOGASTER AND HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA A64-18673
 - CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK XII AND IV
 - CHROMOSOME REARRANGEMENT IN MICROSPORES UNDER INFLUENCE OF SPACE FLIGHT CONDITIONS

 JPRS-22585 N64-12393
 - EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III
 SPACECRAFT ON SEED OF HIGHER PLANTS
 N64-21643
 - EFFECT OF SPACE FACTORS ON MITOSIS IN
 MICROGRAPISMS DURING FLIGHT
 N64-23042
 - NASA-TT-F-8825 N64-23042

 EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD N64-29091

 VOSTOK V AND VI SPACECRAFT N64-29091

- DEMARCO, A. O.

 ACCELERATION FORCES CAUSING DISRUPTION OF TIMING
 BEHAVIOR IN WHITE RAT

 A64-13748
- DEMBNOVETSKYY, D. F.
 VARIABILITY OF PRIMARY EVOKED POTENTIALS RECORDED
 UNIPOLARLY FROM CORTICAL SURFACE OF CAT IN STATE
 OF NARCOSIS ELECTROPHYSIOLOGY
- DEMENT, W. C.

 SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

 A64-80316
- DEMENTYEV, YE. P.
 THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS
 JPBS-19999
 N64-10592
- DEMESHKEVICH, N. G.
 TOXICOLOGY OF ALIPHATIC AMINES N64-23370
- DEMIDOVICH, N. B.
 GROUP CODE THEORY AND APPLICATION OF HADAMARD
 MATRIX TO CODING PROBLEM CYBERNETICS
 FTD-TT-63-544/18284
 N64-12384
- DEMIN, N. N.

 BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
 AFTER SPACE FLIGHT N64-11673
- DEMIRCHOGLYAN, G. G.
 EFFECT OF IONIZING RADIATION ON RETINA AND OTHER
 PHOTOSENSITIVE SYSTEMS
 FTD-TT-63-163/16284
 N64-2234
- DEMPSTER, W. T.
 PERFORMANCE OF SEATED HUMAN BODY IN SPACE
 ENVIRONMENT
 N64-24343
- DENISON, D.
 TRANSMISSION LOSS DETERMINATION IN BICYCLE
 ERGOMETER
 FPRC/MEMO-198
 N64-25843
- DENISOV, A. F.
 GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY
 COBALT-60 AND CERIUM-144
 N64-12435
 - EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND IODINE-131 FROM RATS N64-12436
 - MATHEMATICAL ANALYSIS OF EXCRETION CURVES FOR RADIOACTIVE ISOTOPES OF COBALT, SODIUM, CERIUM, BROMINE, AND RUBIDIUM N64-12438
- DENISOV, V. G.
 PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON
 PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN
 A64-25574
 - ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS

 A64-27272
 - ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

NO4-23140

- TRAINING OF SOVIET ASTRONAUTS SIMULATED FLIGHT ENVIRONMENT
 JPRS-26762 N64-31440
- DENISYUK, S. D.
 ASEPTIC INFLAMMATION OF CORNEA UNDER INFLUENCE OF
 BETA RADIATION FROM RADIOACTIVE THALLIUM
 JPRS-24936
 N64-21285
- DENNER, B.
 CRITICAL FLICKER FREQUENCY: THRESHOLD AS FUNCTION
 OF ARTIFICIALLY MANIPULATED PHENOMENAL TIME
 A64-81150
- DENNIS, J. B.
 ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882
- DENNIS, J. P. VIBRATION EFFECTS ON VISUAL PERFORMANCE

A64-80165

DENYES, A. ACETATE METABOLISM OF WHITE FAT FROM HAMSTERS IN

COLD EXPOSURE AND HIBERNATION A64-80099

PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN

A64-81119

DEREVENKO, P.
HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON
CAROTTO STMIS CHEMORECEPTORS I EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

A64-80752

DEREVIANKO, E. A.
GRADIENT LOAD EFFECT ON HUMAN DUE TO
ACCELERATION STRESS DURING FLIGHT

A64-81059

DEREVYANKO, YE. A. PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION OF AIRCRAFT IN INSTRUMENT FLYING

N64-2515R

THRESHOLD OF ACCELERATION SENSATION IN MAN JPRS-25929

N64-26880

DEROANNE, R. OXYGEN CONSUMPTION DURING DIFFERENT TYPES OF EXERCISE A64-80055

DERRYBERRY, O. M.
RADIATION PROTECTION AND CONTAMINATION CONTROL FOR EXPERIMENTAL GAS-COOLED REACTOR

N64-21837

DERYABINA, V. M.

MEDICAL CONFERENCES ON MINERAL WATER USE,
CLIMATOPATHOLOGY, CORONARY SURGERY, HIGH ALTITUDE
PHYSIOLOGY, AND EPIDEMIOLOGY JPRS-21836 N64-10515

DERYAGIN, B. V.

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS USING RADIOACTIVE ISOTOPES N64-30395

DESBORDES. P.

ELECTRORETINOGRAPHY - USEFULNESS IN SELECTION OF FLYING PERSONNEL A64-80802

ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

A64-80803

DESIDERIO, M. A.

IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGGEN IN NORMAL AND TUMOR-BEARING RATS UR-634

N64-10190

DESMARAIS, A.

DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON BODY WEIGHT OF COLD ACCLIMATED RATS

A64-80089

DESCILLE. H.

ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION

ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY SLEEP DEPRIVATION A64-81154

PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT AND GUINEA PIG A64-81155

DESPONS, J.
ORIGIN OF SINUSITIS AND OTITIS AND MECHANISM OF BAROTRAUMA IN AVIATORS AND TRAVELERS

A64-80264

DETAMBEL, N. H.

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287 N64-13846 DEUTSCH, E. CUMULATIVE EFFECTS OF HYPOXIA ON ELECTRICAL PHENOMENA OF COCHLEA IN CAT A64-81234

DEUTSCHOVA, E. K.
BLOOD SUGAR, PYRUVIC AND LACTIC ACID, AND
CREATININE CONTENT OF URINE OF WORKERS EXPOSED TO
CENTIMETER WAVES FOR 24 HOURS
A64-8071 A64-80715

DEVOE, D. B.
INTEGRATED GUIDE FOR DESIGNERS OF DISPLAYS FOR COMPLEX SYSTEMS A64-22080

DEWAN, E. M.

HUMAN BEHAVIOR - NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY AFCRL-63-364

N64-18581

DEZMELYK, E. W.
THERMOCHENICALLY SELF-PROPAGATING OXYGENGENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE AMRI-TDR-64-1

DI GIOVANNI, C., JR.
ACCELERATION EFFECT ON PSYCHOMOTOR PERFORMANCE, EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS ON THE CARDIOVASCULAR SYSTEM, AND TECHNIQUES FOR THE STUDY OF ACCELERATION AND WEIGHTLESSNESS

A64-80125

PHYSIOLOGIC AND PSYCHOLOGIC EFFECTS OF SUBGRAVITY AND WEIGHTLESSNESS

ACCELERATION TOLERANCE, ACCELERATION PROTECTION, AND EFFECTS OF ACCELERATION ON VISION AND ORIENTATION A64-801 A64-80143

BLOOD PRESSURE EFFECTS OF DEHYDRATION AND HEAT AFTER SHORT PERIOD IN RECLINING POSITION

ACCELERATION STRESS ON HUMAN PSYCHOPHYSIOLOGICAL **BEHAVIOR** NADC-MA-6305 N64-15753

MEASUREMENT OF AMPLITUDES OF VISUAL ACCOMMODATION UNDER RED AND WHITE ILLUMINATION LEVELS APPROXIMATING COCKPIT CONDITIONS

A64-10251

DIANOV, A. G.

HIGHER HEAT CONDUCTIVITY RESULTING FROM SUBSTITUTION OF HELIUM FOR ATMOSPHERIC NITROGEN IN SPACESHIP CABINS A64-21118

HELIUM REPLACEMENT FOR NITROGEN IN SPACECRAFT CABIN AND HELIUM-OXYGEN VENTILATION FOR PRESSURE N64-31535

DICKER, S. E. FACTORS CONCERNED IN TEMPERATURE REGULATION IN MAN A64-81294

DICKERSON, K. H. PATHOPHYSIOLOGY OF PULMONIC TOXICITY IN RATS BREATHING PURE OXYGEN AT REDUCED ATMOSPHERIC PRESSURE

NADC-ML-6403

N64-27953

DICKEY. J. R.

MONITORING TRACE CONTAMINANTS IN SIMULATED MANNED SPACECRAFT A64-80538

ACOUSTIC TRAUMA, NOISE THRESHOLDS, AND THEIR RELATION TO ASSESSMENT OF HEARING LOSS AND OCCUPATIONAL DEAFNESS
A64-A64-80263

DIENSTBIER, Z.
POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING
BODY REACTION TO SMALL DOSES OF IONIZING RADIATION
BY OBSERVING PHOSPHINE THRESHOLD OF RETINA

N64-15679

EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY FTD-TT-63-923/162 N64~32662 DILL, D. 8.
AGE INFLUENCE ON WORK PERFORMANCE AS SHOWN BY EXERCISE TESTS A64-12994

HEMOGLOBIN AT HIGH ALTITUDE AS RELATED TO AGE
A64-80045

AGE IN RELATION TO OXYGEN CONSUMPTION AND WORK
CAPACITY IN ALTITUDE ACCLIMATIZATION
A64-80518

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE

A64-80664

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33 N64-29849

DILLE, J. R.
TOXIC ACTION OF ORGANOPHOSPHATE PESTICIDES ON
CENTRAL NERVOUS SYSTEM A64-19142

ELECTROENCEPHALOGRAPHIC FINDINGS AND CALORIC IRRIGATION OF RIGHT EAR STUDIED IN DIAGNOSIS OF INFLIGHT LOSS OF CONSCIOUSNESS IN PRIVATE PILOT FLYING ALONE A64-20702

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE HISTORY A64-80508

STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY A64-80851

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS ELECTROENCEPHALOGRAPHIC STUDIES
CARI-63-21 N64-1495

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH DXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK CARI-63-27 N64-23618

DILLEY, J.

CYANIDE AND NITRILE COMPOUNDS FOR THERAPY OF
RADIATION EXPOSURE IN MICE
N64-13505

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT N64-13506

DILLMAN, A.

OBJECTIVE MEASUREMENT OF VISUAL ACUITY BY NEW
METHOD A64-80512

DINES, J. H.
PROLONGED EXPOSURE OF YOUNG RATS TO AN OXYGEN
ATMOSPHERE AT REDUCED PRESSURE A64-80169

DINMAN, B. D.

CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
STRUCTURE AND ENZYME ACTIVITY A64-80074

DINNERSTEIN, A. J.
PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY
IN DIFFERENT MODALITIES A64-80289

DIONESOV, S. M.
BODY REACTION TO PAINFUL STIMULI - ACTIVE AND
PASSIVE
JPRS-21617
N64-10117

DITTMER, E. C.

DESIGN AND FABRICATION OF MASK AND HELMET FOR
CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3 N64-21311

DIVERTIE, M. B.
AIR TRANSPORTATION OF PATIENTS WITH PULMONARY
DISEASE
A64-80757

DIVINE, J.
INJURIES SUSTAINED DURING HIGH SPEED EJECTION FROM
AIRCRAFT A64-13749

INJURIES SUSTAINED DURING SURVIVABLE SONIC EJECTION WITH FRENCH E. 96 AND E. 97 SEATS

A64-80669

DMITRIYEV, A. P.
EQUATIONS OF EQUAL PLANET SYSTEM VIEWED FROM
SURFACE WAVE
N64-13575

DOBBINS, D. A.

PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO
TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE
RATIOS
USAPRO-TRN-135
N64-2174)

DOBROMYSLOY, A. N.
RELATIONSHIP BETWEEN CORTICAL ENDING OF VISUAL
ANALYZER IN BINOCULAR VISION AND VISION
DISTURBANCE - ELECTROENCEPHALOGRAPHY

N64-25136

DOBRONRAVOV, S. N.
SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND
COLOR SENSITIVITY OF SKIN OF FINGERS
N64-32778

DOBROV, N. N.
BIOLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE
AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION
METHODS
A64-25578

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND PROBLEMS OF PROTECTION A64-80911

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT - PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY N64-10514

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES FTD-TT-64-33/1&2&4 N64-23335

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-2374

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

DOBROVA, N. B.

MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE
SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR
SYSTEM OF DOGS
JPRS-18644
N64-11

DOBROW, R.

AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL
PHENOMENA BY COMPUTERS

A64-80533

DOCTER, R. F.
PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL
EFFECTS OF STRESS IN FASTING MAN

A64-81005

DODSON, J.
WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE
U413-64-056
N64-26883

DOEHRING, D. G.
PHYSIOLOGICAL RESPONSES ASSOCIATED WITH TIME
ESTIMATION IN HUMAN OPERANT SITUATION
A64-80801

DOERFLER, L.

METHODS OF TESTING & MEASUREMENT OF NONDRGANIC
HEARING IMPAIRMENT
AD-425085
N64-13615

DOHLER, G.
PHOTOSYNTHESIS AND FLUORESCENCE DURING VARIOUS
STAGES OF CELL GROWTH IN SYNCHRONIZED CULTURES OF
CHLORELLA PYRENOIDOSA A64-80805

FLUORESCENCE OF CULTURES OF CHLORELLA
PYRENOIDOSA EXPOSED TO VARYING CONCENTRATIONS OF
PLASMOLYTICS AT DIFFERENT STAGES OF CELL
DEVELOPMENT
A64-80806

PHOTOSYNTHESIS AND FLUORESCENCE OF CULTURES OF CHLORELLA VULGARIS EXPOSED TO INCREASING CONCENTRATIONS OF CALCIUM CHLORIDE AND SUCROSE

A64-80808

OCLABCHYAN, Z. L.
SYNTHETIC ELECTROCARDIOLOGY - STUDY OF CARDIAC FUNCTIONS
JPRS-25015

N64-21482

DOLANSKY, L.
INFORMATION RATE NECESSARY FOR ADEQUATE
TRANSMISSION OF PITCH SIGNAL FROM SPOKEN MESSAGE
A64-2173

DOLGO-SABUROV, V. B.
RADIATION EFFECT ON ORGANISM OF MAMMALS,
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

DOLINA, S. A.

MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR
CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY
TO STIMULANT DRUG

A64-81252

DOLL, E.

OXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND
ANALYSIS OF BLOOD GASES

A64-80247

DOLL. R. E.
INTERDEPENDENCE OF FACTORS LEADING TO CORDNARY
DISEASE
REPT.-9
N64-2995

DOLLERY, C. T.
HIGH PRESSURE OXYGEN AND CARBON DIDXIDE TENSION AS
RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR
PRESSURE

DOLMITZ, D. A.
VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF
CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN
MAN
A64-80340

DOMANSKI, T. J.

CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS

AMRL-TDR-63-69

N64-22290

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947

DOMAREVA, D. P.
IONIZING & X-RAY RADIATION EFFECTS ON MICE GLANDS & PROTECTIVE SUBSTANCES
JPRS-20421
N64-11355

DOMINGUEZ, A. M.
CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS
AMRL-TDR-63-69
N64-22290

RAPID SCREENING TECHNIQUE IN VIVO FOR METABOLIC STUDY OF CHEMICAL TOXICITY OF HYDRAZINE AND ITS DERIVATIVES IN RATS N64-28947

DONALD, D. E.
TECHNIQUES FOR MEASURING INTRAPLEURAL AND
PERICARDIAL PRESSURES IN DOGS
AMRL-TDR-63-107
N64-16809

DONCHIN, E.
VISUAL EVOKED POTENTIALS CAUSED BY STIMULI OF
CONSTANT DURATION AND VARYING LUMINANCE AND BY
FLASHES
A64-2608

DONESON, I. N.
MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION
AND PURINES IN ESCHERICHIA COLI

DONSKOY, M. D.
INFLUENCE OF MEXAMINE ON REACTION OF PATIENT
SUBJECTED TO RADIATION THERAPY N64-30242

DORE, E. K.

SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS UCLA-519

N64-13004

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES
OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521
N64-20672

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD

FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA UCLA-12-523

DOROFTEI, M.
HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON
EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER
DIFFERENT CONDITIONS OF DXYGEN DIFFUSION

DORONIN, G. P.
HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS
SYSTEM FUNCTION DURING RELATIVE SENSORY
DEPRIVATION
A64-80235

DOSSETOR, J. B.
DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS
RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE

DOST, F. N.
TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO
SMALL MAMMALS
AMRL-TOR-63-128
N64-16585

DOTTER, C. T.
PORTABLE ELECTROMANOMETER FOR DIRECT BLOOD
PRESSURE MEASUREMENT UNDER FIELD CONDITIONS
A64-80295

DOUGHERTY, D. J.

EFFECT OF ADDING BODY MOTION CUES, PROVIDED BY VEHICULAR MOTION, UPON THE INTERPRETATION OF OUTSIDE-IN AND INSIDE-OUT VISUAL DISPLAY

DOUGLAS, W. K.
ASTRONAUT TRAINING REQUIRING MEDICAL KNOWLEDGE AND PHYSICAL FITNESS DEVELOPED BY SCUBA DIVING AND CENTRIFUGE CONDITIONING

A64-24403

ROLE OF FLIGHT SURGEON IN SELECTION, TRAINING, AND CARE OF ASTRONAUTS

A64-80392

MEDICAL ASPECTS OF ASTRONAUT TRAINING AND ROLE OF FLIGHT SURGEON A64-80487

DOULL, J.

CYANIDE AND NITRILE COMPUUNDS FOR THERAPY OF

RADIATION EXPOSURE IN MICE

N64-13505

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT

SURVIVAL TIME OF MICE PROTECTED WITH NITRO-SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF X-RAYS N64-13507

ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509

DOND, P. J.

VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO
HARMONIC STIMULATION OF THE HORIZONTAL

SEMICIRCULAR CANAL

A64-10257

DOWLING, J. J.
WHIPLASH INJURY - MECHANICS, SITE OF INJURY,
DIAGNOSIS, AND TREATMENT A64-80557

DOWNES, H.

ABDOMINAL REFLEX INHIBITION IN RAT DURING
HYPERVENTILATION

A64-80022

DOWNS, W. L.

CONTROL FEMALE ALBIND RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION TEST

UR-646

DOYLE, B. C.

POST CRASH SURVIVAL CONSIDERING DROWNING, FIRE AND PROVISIONS FOR RAPID EVACUATION

SAE PAPER 8510

A64-20452

DOYLE, M. PATHOLOGICAL STUDIES ON STEROID SEX HORMONES, RADIATION EFFECT ON METABOLISM, LEUKEMIA, PARATHYROID, AND HYPOTHYROIDISM ARCH-20

N64-15398

DRASKOCZY, P. R.

DXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION

N64-1283 N64-12835 SAM-TDR-63-50

DRAZIC, M.
YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES AMRL-TDR-64-23

DREHER. J. J. ELECTROSTATIC FIELD AND NEGATIVE ION EFFECTS ON HUMAN PERFORMANCE

HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS A64-22062

VIEWER INTERPRETATION AND CONNOTATION OF ABSTRACT A64-80634 VISUAL FORMS

DRENNAN, J. E.

BENEFICIAL USES OF RADIATION EFFECTS - POWER,
ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND
TRACER TECHNOLOGY

N64-N64-24967 REIC MEMO-25

DREVUSH, V. P.
AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR N64-23658 MICRODRGANISM CULTURES

DREM, R. M.

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUMLABELED THYMIDINE ON CELL GROWTH

N64-220 NASA-RP-196

DROGAYTSEV, A. D. MECHANICAL PROPERTY CHANGES OF PLASTIC TUBULE SUBSTITUTED FOR BLOOD VESSEL IN CARDIOVASCULAR SYSTEM OF DOGS N64-11316 JPRS-18644

DRUM. D. E. PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS A64-80119

DRYDEN, H. L.
NASA SPACE MEDICINE PROGRAM, BIOMEDICAL RESEARCH, AND LIFE SCIENCES RESEARCH N64-14866 NASA-TM-X-51344

SPACE MEDICINE AND MANNED SPACEFLIGHT

N64-30714

DU BOIS. K. P. BIOCHEMISTRY - IONIZING RADIATION EFFECT ON MOUSE TISSUE, THERAPEUTIC AGENTS FOR RADIATION INJURIES, AND IRRADIATION EFFECT ON ANIMAL LIFESPAN

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION

EFFECT OF IONIZING RADIATION ON MAMMALIAN TISSUES, CHEMOTHERAPY FOR RADIATION SICKNESS IN ANIMALS, & INFLUENCE OF RADIATION EXPOSURE ON LIFESPAN N64-16645 AD-430559

IONIZING RADIATION EFFECTS ON MAMMALIAN TISSUES,
THERAPEUTIC AGENTS FOR RADIATION SICKNESS AND
EFFECTS OF LOW LEVEL EXPOSURE ON LIFESPAN OF MICE OPR-51

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS N64-25340 SAM-TDR-64-29

EFFECT OF IONIZING RADIATION ON BIOCHEMISTRY OF MAMMALIAN TISSUE - PHARMACOLOGICAL & TOXICOLOGICAL AGENTS FOR RADIATION PROTECTION - EFFECT OF GAMMA & NEUTRON IRRADIATION ON ANIMAL LIFESPAN N64-29872 OPR-52

DUANE, T. D.
VISUAL FIELD LOSS PATTERN DURING POSITIVE
ACCELERATION DEMONSTRATED AND REFINED WITH PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER A64-27604

DUBIKAYTIS, YU. V.
MECHANISM OF IONIC EXCHANGE OF POTASSIUM AND SODIUM - NATURE OF NEUTRON DISCHARGE N64-28038

N64-11684

GROWTH-RELATED CHANGES IN ZINC CONTENT OF HUMAN BLOOD N64-25196 JPRS-25364

DUBININ, N. P.

EFFECT OF IONIZING RADIATION ON HEREDITARY
MOLECULAR STRUCTURES - BIBLIOGRAPHY
N N64-10121 JPRS-21754

RADIOLOGICAL MEDICAL ENCYCLOPEDIA N64-10866 JPRS-18414

SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT

RADIATION AND CHEMICAL GENETIC EFFECTS N64-12701 JPRS-22581

DUBROVINA, Z. V.

PASSAGE OF STRONTIUM 90 INTO BROTH FORMED DURING
COOKING OF BONES, MEAT, POTATOES, AND CABBAGE N64-18114 JPRS-24139

DUCHESNE, J. PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN 464-81119

DUCKWORTH, G. E. RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT N64-18629 AMRL-TDR-64-9

DUCROS, H CONTINUOUS MEASUREMENT OF RESPIRATORY AIR
TEMPERATURE IN RELATION TO RESPIRATORY PHASE,
AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY

DUDAREV, V. P.
ADRENALECTOMY EFFECT IN RAT ADAPTED TO HYPOXIA ON RADIAL ACCELERATION TOLERANCE A64-80932

DUFFY, J. C.

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS
OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO
SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL
METABOLISM, AND ACID-BASE BALANCE

A64-808 A64-80823

DUKHOVICHNII, S. M.
CARDIOVASCULAR, RESPIRATORY, AND METABOLIC
RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS A64-80044

DUKOFF, V.

CLINICAL RADIOLOGY RELATION TO SURGERY AND STUDIES

OF ORGANS AND TISSUES N64-15336 JPRS-23317

FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS N64-16694 JPRS-23678

DUNAYEVA, V. P.

PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS
DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR JPRS-24119

DUNCAN. C. J. CONTINUOUS AND QUANTAL THEORIES OF SENSORY A64-12939 DISCRIMINATION

464-80993

DUNCAN, J. C.
BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT,
WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE
AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS OF ASTRONAUTS

DUMN, C. B. VIABILITY OF MICRODRGANISMS IN SIMULATED SPACE N64-3 NASA-CR-59092 N64-33099

EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288 N64-15181

DUNN, J. E., II
ARTERIAL BLOOD CHANGES IN LACTIC ACID CONTENT IN
UNANESTHETIZED DOGS AT 21,000 FEET 464-80519

CHANGES IN ARTERIAL LACTIC ACID OF DOGS AT HIGH ALTITUDE SAM-TDR-64-2 N64-18886

PENSACOLA SLOW ROTATION ROOM IN DISORIENTATION AND
MOTION SICKNESS STUDIES A64-80976

PERSONALITY VARIABLES AS DETERMINED BY MMPI RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR STIMULATION A64-80582

DUPUY, G.
EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF ANESTHETIZED DOG TO HYPOTHERMIA

DURAND, M.
AIR TRANSPORTATION OF PATIENTS WITH CONGENITAL HEART DISEASE A64-80029

AIR TRANSPORTATION OF CARDIAC PATIENTS

A64-80775

DURFEY, J. Q.
POST-MORTEM PULMONARY CHANGES OCCURRING IN MICE
EXPOSED TO 100 PER CENT OXYGEN AT 740 MM HG A64-80856

DURLACH, N. I.

QUANTITATIVE BLACK BOX MODEL FOR INTERPRETING DATA
ON BINAURAL MASKING LEVEL DIFFERENCE AT HIGH

A64-16091

MODEL FOR INTERPRETING DATA, DESCRIBING BINAURAL MASKED THRESHOLD DEPENDENCE ON PROPORTION OF MOISE IN MASKING SIGNALS A64-27497

DURMISHYAN, M. G. BIOLOGICAL EFFECT OF IONIZING RADIATION ON RATS N64-12432

BIOLOGICAL EFFECT OF LOW DOSES OF RADIOACTIVE ISOTOPES - SODIUM-24 AND PHOSPHORUS-32 IN RATS, RABBITS, AND DOGS N64-12

DURR, L. ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112

DURRER. RER, J. L. RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT AAL-TDR-63-40 N64-13633

DISCUSSING ASTRONAUT ISOLATION AND CREW MEMBER
COOPERATION A64-1 A64-11442

DUSTERLHO, R. V.
RADIATION PROTECTIVE EFFECT OF PYRIDOXAL-5PHOSPHATE IN RAT AND DOG
A60 A64-81092 DUTTON, R. E., JR. BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455 VENTILATORY RESPONSE OF DOG TO INTERMITTENT INSPIRED CARBON DIOXIDE A6

DUTZMANNA R. J. SELF PROPULSION SYSTEM DESIGN OF ASTRONAUT MOBILITY IN SPACE SAE PAPER 857H A64-20307

CORRELATION OF FLYING APTITUDE WITH ELECTRO-ENCEPHALOGRAM FOR AIRCREW SELECTION

ELECTROENCEPHALOGRAPHY FOR USE IN AIRCREW AND ASTRONAUT SELECTION REPT.-12-63 N64-20380

DYAL, J. A.
MOTOR SKILL ACQUISITION AFFECTED BY DELAY OF KNOWLEDGE OF RESULTS 464-81140

DYMERSKIY, V. YA.

PHYSIOLOGICAL MECHANISMS INVOLVED IN VISUAL
PERCEPTION OF DISTANCE TO MOVING OBJECTS

DZENDOLET, E.
PERSONALITY VARIABLES AS DETERMINED BY MMPI RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR STIMULATION A64-80582

DZHAFROY, G. K.
TOXICITY OF RAT BLOOD PLASMA DURING RADIATION M64-12783

DZHAVADYAN, N. S.
INSTRUMENTATION FOR SIMULTANEOUS RECORDING OF
BLOOD PRESSURE CURVE, PHONOCARDIOGRAM, AND
ELECTROCARDIOGRAM JPRS-25897 N64-27125

EAGAN, C. J.
RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW TEMPERATURE ENVIRONMENT AAL-TDR-63-40 N64-13633

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287 N64-13846

EASON, R. G.
ELECTRICAL ACTIVITY IN HUMAN SKELETAL MUSCLES,
SKIN AND HEART INVESTIGATED TO DETERMINE ACTION
A64-249 POTENTIAL OF MUSCLE GROUPS

EBE, M.

CORTICAL POTENTIALS EVOKED BY PHOTIC STIMULATION AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN

EBERT, P. A.
DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, A64-81102

SPACECRAFT AND SATELLITE PROGRAMS REVIEWING RECENT MAJOR FLIGHTS AND EMPHASIZING ADVANCES IN LIFE-SUPPORT SYSTEMS A64-10 A64-10151

LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

EDDY, N.

INPUT FACTORS AFFECTING ACCURACY WITH WHICH
OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY
EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET
A64-2161

EDELBERG, R.	
ELECTROPHYSIOLOGIC CHARACTERISTICS	AND
INTERPRETATION OF SKIN POTENTIALS	
SAM-TDR-63-95	

N64-15570

ELECTRODE FOR RECORDING OF PSYCHOPHYSIOLOGICAL AND PHYSIOLOGICAL PHENOMENA IN HUMANS N64-25767

EDEN, M.

NEUROPHYSIOLOGICAL INFORMATION PROCESSING AS IT RELATES TO SENSORY COMMUNICATION

A64-12417

SHORT TERM STORAGE OF VISUAL INFORMATION AND PROPERTY OF MEMORY READ-OUT A64-80705

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

EDHOLM. O. G.
ACCLIMATIZATION OF MAN TO POLAR REGIONS

A64-80426

EDMUNDOWICZ, A. C.
TECHNIQUES FOR MEASURING INTRAPLEURAL AND
PERICARDIAL PRESSURES IN DOGS
AMRL-TDR-63-107
N64-16809

AMRL-TDR-63-107 N64EDWARDS, A. E.

SENSÓRY DEPRIVATION AND LYSERGIC ACID
DIETHYLAMIDE /LSO/ EFFECT-PHYSIOLOGICAL
CONSIDERATIONS A64-80678

EDMARDS, A. W. T.
DETERMINATION OF TEMPERATURE OF PULMONARY
CAPILLARY BLOOD
N64-17932

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937

EDWARDS, D. K., III
PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT
LOOPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL
SUIT
A64-27600

EDWARDS, R. J., JR.
GALVANIC SKIN RESPONSE STUDY USING AUTOMATIC
ANALYZER
SAM-TDR-63-74
N64-16641

EFREMOV, IU. I.

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS
CONDUCTED DURING FLIGHTS OF VOSTOK III AND
VOSTOK IV

A64-23667

EGGLESTON, J. M.
SPACE RADIATION PROTECTION IN SPACECRAFT

EGGLETON. M. G. FACTORS CONCERNED IN TEMPERATURE REGULATION IN MAN

A64-81294

INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION MODELS

A64-25605

ANIMAL AND HUMAN PHYSIOLOGICAL PROCESSES REPRESENTED BY RANDOM FUNCTIONS

A64-25606

N64-30719

EGOROV, B. B.
VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION
TO TRANSVERSE ACCELERATION STRESS
A64-80896

EHRLICH, N. J.

HYPNOTIC CONTROL OF COMPENSATORY TRACKING WITH
NORMAL AND REVERSE COMPATIBILITY UNDER DIFFERENT
STATES OF AROUSAL

A64-80713

EHRLICH, R.

RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER
EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN
ENVIRONMENT
SAM-TDR-64-9 N64-2250

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE N64-25115

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559

EHRLICH, R. E.

SHORT TERM PSYCHOTHERAPEUTIC TREATMENT OF AVIATORS
WITH PSYCHOGENIC PROBLEMS, AND SUBSEQUENT FLIGHT
STATUS

A64-10261

FEAR OF FLYING SYNDROME - REAPPRAISAL AND PROGNOSIS A64-80181

EICHMEIER, J.
PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS
INCLUDING DEVICES FOR MEASURING CONCENTRATION AND
MOBILITY
A64-24167

EIMER, M.
FUTURE PLANS FOR SPACE PROBES IN RELATION TO
COSMOLOGY, BIOGENESIS AND EXTRATERRESTRIAL LIFE
A64-80790

EISDORFER, C.
RORSCHACH PERFORMANCE AND INTELLECTUAL FUNCTIONING
IN AGED INDIVIDUALS
A64-80128

EITAN, A.

NUMBER OF CODE SIGNALS AFFECT LEARNING TIME FOR TACTILE COMMUNICATION

A64-16199

EKELUND, L.
TURNOVER RATE AND OXIDATION OF DIFFERENT FREE
FATTY ACIDS IN MAN DURING EXERCISE

A64-80698

EL DAROV, A. L.
MAGNETIC FIELD EFFECT ON BODY MOVEMENTS IN BIRD
A64-80872

EL TAMAMI, M. Y.
MICROMAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION
A64-25543

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-8083

ELISBERG, E. 1.
HEART RATE RESPONSE TO VALSALVA MANEUVER AS TEST
OF CIRCULATORY INTEGRITY A64-80008

ELISEEV, V. G.
INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION
STRESS IN VENTRODORSAL DIRECTION AND RELATION TO
VASCULAR AND PARENCHYMAL ELEMENTS

A64-25588

ELKIN, E. H.

ABILITY TO DISCRIMINATE SMALL SPATIAL SEPARATIONS
IN MOVING VISUAL TARGET /DYNAMIC VISUAL ACUITY/
AND EFFECT OF INCREASING TARGET VELOCITY AND
EXPOSURE TIME

A64-80832

ELKIND, J. I.

OPERATOR ADAPTATION TO SUDDEN CHANGES IN
CONTROLLED ELEMENT GAIN AND POLARITY BASED ON
TRACKING ERROR AND RESPONSE TIME

A64-24127

SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME INVARIANT CONTROL SYSTEM A64-24833

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL NASA-TN-D-2255 N64-18734

ELLEGAST, H.

RADIATION PROTECTION EFFECT IN MOUSE OF NEW PSYCHOTROPIC DRUGS

A64-81157

ELLIOTT, D. W.
MODERATE POSTSTIMULATORY FATIGUE EFFECT ON EAR
TUNING, USING BINAURAL PITCH MATCHING DATA
A64-18000

AUDITORY RESPONSE TO REPEATED EXPOSURE TO HIGH INTENSITY SOUND A64-80668

- ELLIOTT, H. W.

 COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS
 AND MICE
 AAL-TDR-62-50

 N64-23109
- ELLIOTT, L. L.

 CHANGE IN FLUTTER RATES AND LOUDNESS OF NOISE
 BURSTS IN TERMS OF NEUROPHYSIOLOGICAL EVIDENCE AND
 AUDITORY THEORY

 A64-13301
- ELLIS. G. E.

 BACTERIAL CELL DIVISION IN RELATION TO OXIDATIONREDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL
 LIFE DETECTION
 NASA-CR-53734
 N64-1957
- ELLIS, H. C.
 EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES
 /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES
 A64-80746

TRANSFER IN PERCEPTUAL LEARNING FOLLOWING STIMULUS PREDIFFERENTIATION A64-81200

- ELLIS, J. P., JR.
 SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC
 EFFECTS OF SHORT DURATION HYPEROXIA

 A64-19136
 - ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA SAM-TDR-64-6 N64-18917
- ELLIS, S.
 THIOL-ACTIVATED AMINOPEPTIDASE OF PITUITARY
 EXTRACT
 NASA-RP-55
 N64-10293

HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY PLASMA AMINOPEPTIDASES
NASA-RP-236
N64-26710

N64-26711

INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PUROMYCIN NASA-RP-252

- ELMADJIAN, F.

 RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL
 STRESS

 ARL-TDR-63-26

 N64-14044
- ELPINER, I. YE.
 BIOLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC
 TREATMENT
 N64-10798

ACOUSTIC PARAMETERS & ULTRASONIC VISUALIZATION OF ORGANS & TISSUES OF MAN & ANIMALS JPRS-22840 N64-13350

METACHROMATIC REACTION OF NUCLEIC ACIDS, DNA AND RNA, PRODUCED BY ULTRASONIC RADIATION JPRS-24353

ULTRASONIC WAVES AND MOLECULAR BIOPHYSICS JPRS-25651 N64-26086

- ELWORTH, C. L.

 ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS RADC-TDR-64-144

 N64-33536
- EMANUEL, A. M.
 INTERACTION OF FREE RADICAL FROM INHIBITORS OF
 ENZYMES WITH PROTEIN SULFUR COMPOUNDS
 N64-10854
- BIOLOGICALLY RESISTANT PIGMENT FROM AEROBIC WASTE DIGESTERS SAM-TDR-63-57 N64-13852
- EMANUEL, N. M.

 REACTION OF IRRADIATED PROTEIN RADICALS WITH
 RADICAL-REACTION INHIBITORS

 N64-12897
- EMDE, G.
 TRAINING AND INSTRUCTION BY MEANS OF TEACHING
 MACHINES IN FIELD OF AVIATION
 A64-28168

- EMELIANOV, M. D.
 PHYSIOLOGICAL INTERACTION OF VESTIBULAR, VISUAL
 AND PROPRIOCEPTIVE ANALYZERS DURING LONG SPACE
 FLIGHTS
 A64-2575
- EMERSON, T. E., JR.
 TOXICOLOGY EFFECTS OF ENDRIN INSECTICIDE ON DOG
 CARDIOVASCULAR SYSTEM
 CARI-63-16
 N64-1654

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES
FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22
N64-16574

- EMPEY, S. L.

 COMPUTER APPLICATIONS IN MEDICINE AND BIOLOGICAL
 SCIENCES BIBLIOGRAPHY
 SP-1025/001/00

 N64-3232
- ENDERWICK, T. P.
 IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS
 BY USE OF TRAINING AIDS
 NAVTRADEVCEN-1105-1
 N64-29280
- ENENSTEIN, J.

 SUBLIMINAL PERCEPTION LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY

 A64-80571
- ENGEL, P.
 REACTION TIME DURING RESPIRATORY CYCLE
 A64-80012
- ENGELKE, M. J.
 HEALTH AND SAFETY PROCEDURES FOR HIGH ENERGY
 ELECTRON SCATTERING FROM TRITIUM GAS
 LAMS-2959
 N64-12113
- ENGLE, E.
 HISTORY OF ESCAPE SYSTEM DEVELOPMENT FOR AIR, SEA,
 AND SPACE USE
 A64-80198
- ENOKSSON, P.
 BINOCULAR RIVALRY AND STEREOSCOPIC ACUITY
 A64-81122
- EPPLEY, R. W.

 OPTIMUM ENVIRONMENTAL CONDITIONS FOR GROWTH OF
 STRAINED MARINE ALGAL FLAGELLATES
 SAM-TDR-63-91
 N64-16643
- EPSTEIN, W.

 PERCEPTION OF RELATIVE SIZE EXAMINED AS SOLE
 STIMULUS FOR DISTANCE PERCEPTION

 A64-80561

DEPTH PERCEPTION - EFFECTIVE DIFFERENCE IN INFLUENCE OF RELATIVE SIZE ON PERCEIVED RELATIVE DISTANCE A64-80794

- ERBSLOH, F.
 GLUCOSE UTILIZATION OF BRAIN CORRELATED WITH
 INSUFFICIENT OXYGEN CONSUMPTION IN LIVER HYPOXIA
 N64-14604
- ERDBRINK, W. L.
 EYE MOTILITY EXAMINATION BY OBJECTIVE TECHNIQUES
 TO SUPPLEMENT AVIATION PHYSICAL EXAMINATION
 A66-13995
- EREYDEL, V. R.

 RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND
 BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT
 JPRS-26081

 N64-28062
- ERICKSON, R. A.

 VARIATION IN VISUAL SEARCH PERFORMANCE, WITH
 CHANGING VELOCITY AND DENSITY OF OBJECTS IN A
 MOVING STRUCTURED FIELD

 A64-15168
- ERIKSEN, C. W.
 FORM RECOGNITION AT BRIEF DURATION AS FUNCTION OF ADAPTING FIELD AND INTERVAL BETWEEN STIMULATIONS
 A64-80070
- ERIKSSON, E. S.

 MONOCULAR SLANT PERCEPTION AND TEXTURE GRADIENT
 CONCEPT

 A64-80781

ERNST, F. H.

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER
ZERO GRAVITY CONDITIONS
GA-63

N64-32154

ERNSTING, J.

PHYSIOLOGICALLY DESIRABLE RELATIONSHIP BETWEEN
OXYGEN CONCENTRATION IN THE INSPIRED GAS AND THE
ABSOLUTE PRESSURE WITHIN A PRESSURE OR SEALED
CABIN

A64-10248

ARTERIAL AND VENOUS BLOOD OXYGEN AND CARBON DIOXIDE TENSIONS DURING BRIEF HYPERVENTILATION WITH NITROGEN IN MAN A64-80122

ELECTROENCEPHALOGRAPHIC RECORDING OF EFFECTS OF PROFOUND ANOXIA UPON CENTRAL NERVOUS SYSTEM N64-14585

RELATIONSHIP BETWEEN INSPIRED OXYGEN CONCENTRATION AND AIRCRAFT CABIN ATMOSPHERIC PRESSURE IN HIGH ALTITUDE FLIGHT PRC-1214 N64-25848

ERVIN, F. R.
VISUAL DEPRIVATION EFFECTS ON IMAGERY
EXPERIENCED BY DEAF SUBJECTS
A64-80799

ESIPENKO, B. E.
HIGH ALTITUDE EFFECT ON SALIVARY SECRETION AND
KIDNEY FUNCTION IN DOG A64-81277

KIDNEY FUNCTION AT HIGH ALTITUDE IN DOG

A64-81278

ESMOND, W. G.
EFFECT OF HYPOTHERMIA ON CIRCULATORY REFLEXES IN
THE HUMAN A64-80084

ESSMAN, W. B.
REDUCTION OF RETROACTIVE EFFECT OF INTERPOLATED
MAZE TRAINING IN HYPOTHERMIC MICE

A64-81015

ESTES, H. D.

TIME-TEMPERATURE RELATIONSHIP OF AIR COMPRESSORS
OF TURBOJET, TURBORAMJET, OR SUPERSONIC TRANSPORT
PROPULSION TO DEVELOP ADEQUATE TECHNIQUES OF OZONE
DESTRUCTION

A64-21181

OZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

ESTEVEZ, J. M.

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS
SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

ESTRIN, H. M.
MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION
TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG
N64-21346

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM -TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412

BIOLOGICAL AND MUTATIONAL EFFECTS OF COSMIC RADIATION ON HUMAN SKIN TISSUE A64-80443

EUGSTER, J. G.
SUBRADIATION EFFECTS ON BIOLOGICAL OBJECTS
CONCERNING NATURAL RADIATION ENVIRONMENT
A64-20691

NATURAL RADIATION AS RELATED TO INNATE RADIOACTIVE LEVELS IN PLANTS AND ANIMALS A64-80497

EULER, U. S. Y.

CATECHOLAMINE EXCRETION PATTERNS DURING VARIOUS
PHYSIOLOGICAL AND PATHOPHYSIOLOGICAL CONDITIONS
A64-80652

EUROPA, D.
ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES
SUGGESTING BIOGENIC ORIGIN
A64-80452

EVANS, C. R.

COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA
CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE
A64-25825

ALPHA FREQUENCY OF ELECTROENCEPHALOGRAM AND STABILIZED RETINAL IMAGE A64-81241

EVANS, W. E.
HUMAN EMOTIONAL REACTION TO ABSTRACT VISUAL FORMS
A64-22062

VIEWER INTERPRETATION AND CONNOTATION OF ABSTRACT VISUAL FORMS A64-80634

EVERETT, N. B.

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN

RAT

AAL-TDR-63-17

N64-31829

EVERETT, N. V.

LABELLED THYMIDINE AND RADIDAUTOGRAPHY TO ASSESS
ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS
TIMES OF COLD EXPOSURE
AAL-TDR-63-7

N64-13631

EVERETT, R., JR.
EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING
POTABLE WATER FROM URINE USING MEMBRANE FILTERS
AMRL-TOR-63-113
N64-14695

EVON, W. J.

CAPILLARY ACTION AND DIELECTROPHORESIS CONVERTERS
FOR OVERCOMING RANDOM ORIENTATION OF LIQUID OXYGEN
FOR BREATHING SYSTEM DURING WEIGHTLESSNESS
A64-80835

EWING, A. M.
COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861

EYDELMAN, F. M.
EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION
ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE
ACTIVITY IN HUMAN BODY
N64-31540

EYGES, N. S.
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &
DEVELOPMENT IN ACTINOMYCETES AND PLANTS
N64-11682

F

FABRE

DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL
FRACTURES OCCURRING DURING FORCED OR FAULTY
LANDINGS IN FRANCE

A64-80285

FABRE, F.
INJURIES SUSTAINED DURING HIGH SPEED EJECTION FROM
AIRCRAFT
A64-13749

FABRE, J.
BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION
INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS
EFFECTS, RADIATION, CONFINEMENT AND SUPPORT
SYSTEMS
A64-26917

INJURIES SUSTAINED DURING SURVIVABLE SONIC EJECTION WITH FRENCH E. 96 AND E. 97 SEATS

A64-80669

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED ORIGIN A64-80717

MEDICAL ASPECTS OF EJECTIONS FROM MIRAGE III
AIRCRAFT A64-80768

FABRY, C.

ANATOMICAL & PHYSIOLOGICAL DATA OF GASTROINTESTINAL TRACT FOR CALCULATING LEVELS OF
RADIOACTIVE CONTAMINATION IN FOOD CHAIN
EUR-489-F

N64-16927

FAHRION, N. G.
MOTOR STYLE AS FUNCTION OF HANDEDNESS, SPEED
CONTROL, AND TREMOR CONTROL
A64-80707

FAINERMAN, I. D.
 ERROR ANALYSIS OF PARALLAX IN INDIVIDUAL SCALE
 READINGS
 A64-13081

ERROR ANALYSIS OF PARALLAX IN INDIVIDUAL SCALE
READINGS A64-17598

FAIRMAN, W. D.
INDRGANICALLY BOUND IODINE-131 SEPARATED FROM
URINARY CONSTITUENTS BY ION EXCHANGE ON SILVER
CHLORIDE COLUMN
ANL-6887
N64-30602

FAIVRE, G.
ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY
SLEEP DEPRIVATION A64-81154

FALET, R.
WATER LOSS THROUGH RESPIRATION A64-80028

FALKOM, S.

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR
TAXONOMY OF BACTERIA

N64-18056

FALUDI, B.

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR
BIOLOGY
JPRS-26558

N64-30777

FANG, H. S. FIRE HAZARD IN LOW PRESSURE DXYGEN ATMOSPHERE REPT.-4 N64-22705

FANT, C. G. M.
ACOUSTIC SPECIFICATION OF SPEECH
AFCRL-64-263

N64-26499

SPEECH DISCRIMINATION, VOICE COMMUNICATION, AND STUDIES OF SPEECH TRANSMISSION EFFICIENCY STL-QPSR-3/1963/ N64-26675

FARHI, L. E.
ATMOSPHERIC NITROGENS ROLE IN BIOLOGICAL PROCESSES
MITH PARTICULAR REFERENCE TO PHYSIOLOGICAL
RESPIRATION
A64-20648

LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY NEGATIVE PRESSURE BREATHING OF 100 PER CENT DXYGEN IN DOG A64-80738

KESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION AMRL-TOR-63-103/1/ N64-17926

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933

DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS CHROMATOGRAPHY N64-17937

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE
OF LUNGS
N64-17939

MEASUREMENT OF OXYGEN, CARBON DIOXIDE, & NITROGEN GAS PRESSURES IN ALVEOLUS AND ARTERY REGIONS

DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944

PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE
N64-17949

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY PHYSIOLOGY N64-17955

FARINA, A. J., JR.
FLASH AND REAL-TIME IDENTIFICATION OF HIGH
PRIORITY TARGETS - PHOTO INTERPRETATION
N64-10535

FARR, D. E.
TRAINING PLAN FOR PERSONNEL TO MONITOR FLIGHT
CONTROL SYSTEM FOR DETECTING SLOW MALFUNCTION
PROBLEMS
N64-25355

FARR, M. K.

IDENTIFICATION OF CELL WALL SUBSTANCES IN ALGAE &
FUNGI - SPACE FOOD FOR ASTRONAUTS

AMRL-TDR-63-72

N64-11461

CYTOCHEMICAL IDENTIFICATION AND LOCALIZATION OF POLYSACCHARIDE /CHITIN/ IN CELL WALLS OF FUNGI AMRL-TDR-64-52 N64-29974

FARRER, D. N.
CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS
AVOIDANCE TASK
ARL-TDR-64-7
N64-22697

STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER SERNYL ANESTHESIA ARL-TDR-64-9 N64-32026

FASTYUCHENKO, O. V.
PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE
RADIATION SICKNESS
N64-12778

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

A64-80514

FEDERER, W. T.
BIBLIOGRAPHY OF EXPERIMENT DESIGN RESEARCH
MRC-405
N64-17921

FEDEROVA, T. A.
BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
AFTER SPACE FLIGHT N64-11673

FEDIAY, Z.

COLD AND RESTRICTION STRESS EFFECT ON ACID
MUCOPOLYSACCHARIDE CONTENT OF DERMAL CONNECTIVE
TISSUE AND ENDOCRINE GLANDS IN RAT

FEDONYUK, P. M.

UREA USED FOR TREATMENT OF IMPAIRED EXCRETORY
FUNCTION OF KIDNEYS IN BURN INJURY
JPRS-25928

N64-27324

FEDORISHIN. B. A.
ROLE OF SPATIAL PERCEPTION IN WORKING AT CONVEYER
N64-25157

FEDDROV, B. A.
FLEXIBILITY OF MOLECULES OF NATURAL DNA DETERMINATION USING LIGHT SCATTERING AT LARGE
ANGLES
N64-19783

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC
WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE
A64-25581

FEDDROV, 1. V.
EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND
5-HYDROXYINDDLEACETIC ACID DURING JET FLIGHTS
JPRS-23607
N64-16544

FEDDROV, V. D.

INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND
SALMONELLA THYPIMURIUM
JPRS-18092
N64-11211

CELL DEATH RATE AND DEAD CELL CONTENT OF GROWING CULTURES OF ALGAE IN MINERAL MEDIA, AND MATHEMATICAL EXPLANATION JPRS-19286 N64-11216

FEDOROV, V. M.
VESTIBULAR STIMULUS EFFECTS ON ELECTROCORTICOGRAM

A64-80870 IN CAT

FEDOROV, YE. A.
METABOLIC INDICES IN ASTRONAUTS

N64-23747

FEDOROVA, R. I. SOLAR ULTRAVIOLET RADIATION EFFECTS ON MICROORGANISMS AND RELATION TO GERM TRANSPORTATION IN INTERPLANETARY SPACE A64-24973

FEDOROVA, T. A.
SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC
WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

METABOLIC INDICES IN ASTRONAUTS

N64-23747

FEDOSEEV, V. M. MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

FEDOTOV, YU.
EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS
& BIOLOGICAL RHYTHMS ON MAN IN SPACE
N64-10503 N64-10503 JPRS-18627

BIOLOGICAL RHYTHMS & ASTRONAUTICS FTD-TT-64-26/1

N64-19768

FEDOTOVA, M. I.
PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE
RADIATION SICKNESS OF WHITE RATS N64-32781

FEEHRER, C. E.
CHOICE REACTION TIME AS FUNCTION OF COGNITIVE 464-80573 ASPECTS OF TASK

FIGURAL AFTEREFFECTS INFLUENCED BY EXPOSURE VARIABLES IN TACHISTOSCOPIC PRESENTATION

A64-80071

FEINHANDLER, H. S.
EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION
ON TISSUES OF DOG EYE AMRL-TDR-63-120

FEJER, G.
LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

FELBERG, B.
CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-80142

ELECTROMYOGRAPHIC STUDY OF AGING OF SKELETAL A64-80966

FELDMANN, H.
BINAURAL HEARING UNDER INFLUENCE OF INTERFERING
NOISE - CONTRIBUTION TO CENTRAL NERVOUS PROCESSING OF ACOUSTIC INFORMATION

A64-80363

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES NASA-CR-53302

FELIG, P PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99 PERCENT DXYGEN - MICROSCOPIC CHANGES IN THYROID N64-32223

FENDER, D. H.
CONTROL SYSTEM OF EYE IN TARGET TRACKING INVESTIGATED BY SYSTEMS ANALYSIS, SHOWING RETINAL IMAGE MOTION SERVING AS FEEDBACK A64-25747

COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE

FENN, W. O. VELOCITY OF MUSCLE CONTRACTION IN RESPIRATORY SYSTEM AIRFLOW

FENSTER, G. S.
TRAINING FOR OXYGEN DEFICIENCY IN WHITE RATS
IMMEDIATELY AFTER SEVERE BURN INJURY JPRS-21999 N64-10391

FERGUSON. PSYCHOLOGY OF WATER IMMERSION TECHNIQUE FOR SIMULATING WEIGHTLESSNESS - AVIATION MEDICINE N64-15755 NADC-MA-6328

FERNANDEZ-MORAN, H.

CORRELATIVE STUDIES OF BIOLOGICAL MOLECULAR
STRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY NASA-CR-56227 N64-24110

CORRELATIVE STUDIES OF BIOLOGICAL ULTRASTRUCTURE BY HIGH RESOLUTION ELECTRON MICROSCOPY

N64-30791

A64-25825 *

ELECTRON MICROSCOPE FACILITIES AND RESEARCH PROGRAM IN MOLECULAR BIOLOGY NASA-CR-59151 N64-33277

FEROGLIA, W. E.

MAN-MACHINE INTERACTION MODELS USED TO SHORTEN
PRELIMINARY SYSTEM DESIGN A64-24 A64-24845

FERREIRA, A. J.
VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX A64-80069

FERRIS, 8. G. JR.
RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF RESPIRATORY SYSTEM IN MAN IN SEATED POSTION A64-80699

FESSEL. W. J. PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL A64-81087 STRESS IN RATS

CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN **TEMPERATURES** A64-13516

FEUGE, R. L.
EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES
/TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES
A64-80746

FICHTBAUER, S. VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES

PROBLEMS OF VISUAL PERCEPTION AND REACTION TIME FOR PREVENTION OF SUPERSONIC AIRCRAFT COLLISIONS N64-15047

FIELD, R. K. SHORT-TERM FOOD DEPRIVATION EFFECTS ON REACTION TIME

CATHETER FOR RIGHT HEART AND PULMONARY ARTERY IMPLANTATION SAM-TDR-64-10 N64-18918

FILATOVA, I. T.
VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE
DURING METAMORPHOSIS JPRS-22666

FILATOVA, L. G.
ROLE OF THYROID GLAND AND SENSE ORGANS IN
ADAPTATION TO HYPOXIA

FILCESCU, V CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-80142 FILIMONOV, N.

PHYSIOLOGICAL RESPONSE OF HUMAN BODY DURING
SPACEFLIGHT - EFFECTS OF WEIGHTLESSNESS
FTD-TT-64-258/18284 N64-27844

FILION, R. D. L.
THRESHOLD OF VISUAL DETECTION OF ACCELERATED
MOTION
AFOSR-64-0189
N64-21381

FILOSA, J.
MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEINVITAMIN CONCENTRATES
NASA-TT-F-233
N64-26836

FILOY, V. A.

RELATIONSHIP OF TWO-PHASE TOXICITY AND THERMODYNAMIC ACTIVITY IN TOXICOLOGY

N64-23367

FILSON, G. W.
MOVEMENTS AND DISPERSION OF RESPIRED AIR OF
IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT
A64-80826

FINDLAY, G. H.

OXYGEN CONSUMPTION COLOR CHANGES IN HUMAN
EPIDERMIS, AND EFFECTS OF PURE OXYGEN INHALATION
MEASURED IN VIVO WITH CYCLOPS OXIMETER

A64-81207

FINDLEY, J. D.
ANIMAL BEHAVIOR STUDIES WITH MULTI-ENCLOSURE,
PROGRAMMED ENVIRONMENT, AND TELEMETRY SYSTEMS
N64-11258

LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED ENVIRONMENT NASA-CR-52913 N64-11825

FINKELSTEIN, B.
FOOD MANAGEMENT AND NUTRITION FOR MANNED SPACE
STATIONS A64-B0396

FINKINSHTEYN, YA. D.
MECHANISM OF OSMORECEPTOR STIMULATION - DETECTION
OF OSMOTIC PRESSURE OSCILLATIONS
N64-32777

FISCH, L.
RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION
OF PLACENTA IN GASTROINTESTINAL TRACT
N64-24007

FISCH, R. I.
MOTIVATIONAL INTENSITY AND RELEVANCE EFFECT ON
ATTENTION SPAN AND SCANNING
A64-81147

FISCHER, H.
FAT EMBOLISM ASSOCIATED WITH UNEXPLAINED AIRCRAFT
ACCIDENT
A64-80791

FISCHER, O.
LOCATION OF CENTER OF GRAVITY IN HUMAN BODY
N64-24340

KINETICS OF JOINT SYSTEMS AND STATE OF MOTION & EQUILIBRIUM IN MAN N64-24341

FISCHTHAL, M.
PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR
FOR ASTRONAUT TRAINING
SAE PAPER 866H
A64-20850

FISHELEY, YA. R.
SKIN VISION - TACTILE, VIBRATIONAL, THERMAL, AND
COLOR SENSITIVITY OF SKIN OF FINGERS
N64-32778

FISHER, L.
STIMULATION DUE TO SELF-INDUCED MOVEMENT IN
PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727

FISHZON-RYES, YU. I.

ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL
ACTIVITY OF STOMACH DURING DIGESTION
JPRS-21925
N64-10850

FITCH, F.
NATURE OF ORGANIZED ELEMENTS IN ORGUEIL AND
IVUNA METEORITES A64-80449

RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY SODIUM SULFITE OR THIAZOLIDINE TREATMENT
N64-13506

FITCH, R. F.

ALTITUDE SICKNESS EXPRESSED AS CENTRAL NERVOUS
SYSTEM SYMPTOMS IN FEMALE MOUNTAIN CLIMBER

A64-B0467

FITZGERALD, R. S.
PULMONARY CIRCULATION AND CARDIAC DUTPUT OF
RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE
HYPOXIA
A64-80338

FLANDROIS, R.
DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF
CARDIAC FREQUENCY A64-80023

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA
AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS
A64-80052

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA A64-80053

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465

FLICKINGER, D. D.
STATE OF AEROSPACE MEDICAL RESEARCH WITH LIST OF
BIOMEDICAL REQUIREMENTS CRITICAL TO FUTURE
PROGRAMS
A64-11426

OPTIMUM ASTRONAUT SELECTION WITH REGARD TO IN FLIGHT TESTING AND ACTUAL MISSION PERFORMANCE REQUIREMENTS A64-28344

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

FLINN, D. E.
HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING
PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK
COMMITMENT STRESS
A64-12978

PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE FLIGHT A64-80457

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE MISSIONS N64-30718

FLISBERG, K.
EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM
A64-80306

MIDDLE EAR PRESSURE DETERMINED BY MASTOID PUNCTURE TECHNIQUE A64-80307

FLOCK, H. R.
ACCURACY OF SPACE PERCEPTION AS FUNCTION OF
IRREGULARITY AND REDUNDANCY OF SURFACE TEXTURE
A64-80714

SLANT PERCEPTION - GESTALT, HELMHOLTZ, AND GIBSON THEORIES A64-81159

OPTICAL BASIS PROPOSED FOR MONOCULAR SLANT PERCEPTION A64-81202

FLORENTIN, E.

ALVEDLAR CARBON DIOXIDE AS INDICATOR OF MECHANISM
OF HYPERPNEA IN RAT EXPOSED TO COLD

A64-80046

MECHANISM OF HYPERPNEA DUE TO COLD IN RAT
A64-80054

EFFECT OF INHALING COLD AIR ON PULMONARY VENTILATION IN MAN A64-81125

FLUUR, E. HABITUATION, EFFERENCE, AND VESTIBULAR INTERPLAY

A64-80305

VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL ROTATION A64-80384

FLYER, E. S.
PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION
STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE
FLIGHT
A64-80457

FOA, P. P.
ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED
DOGS TO WHOLE-BODY VIBRATION
AMRL-TOR-64-54
N64-31943

FOELSCHE, T.

RADIATION DOSES DUE TO VAN ALLEN BELTS, GALACTIC
COSMIC RAYS AND SOLAR COSMIC RAYS FOR
INTERPLANETARY FLIGHT

A64-27129

FOERSTER. H. V.
COMPUTATIONAL PRINCIPLES OF LIVING ORGANISMS AND
RELATION TO ELECTRONIC HARDWARE

A64-80489

FOFANOV, V. I.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS
JPRS-23678
N64-1669

FOGEL, L. J.
ARTIFICIAL INTELLIGENCE GENERATED BY NATURAL
EVOLUTION PROCESS
A64-24824

FOLDESSY, K.

CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION
AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN
MAN AND DOG

A64-81209

FOLEY, J. M.

DESARGUESIAN PROPERTY IN VISUAL SPACE VERIFIED,
USING POLARIZATION STEREOSCOPIC TECHNIQUE

A64-18367

FOLEY, J. P., JR.
FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING
AMRL-TDR-63-78
N64-11177

FOLEY, M. F.
METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO
EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED
HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK
A64-20696

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

FOLLEY, J. D., JR.

DEVELOPMENT OF TASK ANALYSIS METHOD AS PART OF
TRAINING PROGRAM
NAVTRADEVCEN-1218-1

N64-29247

FOMICHENKO, K. B.

EFFECTS OF IONIZING RADIATION ON METABOLIC
PROCESSES
FTD-TT-62-1575/1&2
N64-22390

FOMIN, A. G.
ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS
ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

FOMIN, S. V.

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA CYBERNETICS N64-12516

FORBES, N. H.

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE

ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE

A64-80664

FORGUS, R. H.
PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE
MEASUREMENT OF STRESS INTENSITY

A64-80711

FORNEY, R. B.
TRACKING APPARATUS FOR DETECTION OF SLIGHT
IMPAIRMENT OF ATTENTION AND MOTOR PERFORMANCE
A64-80709

COMPARATIVE EFFECT OF CHLORMEZANONE, SINGLY AND IN COMBINATION WITH ASPIRIN, ETHANOL, AND PLACEBO ON HUMAN PERFORMANCE UNDER DELAYED AUDITORY FEEDBACK A64-81240

FORNOZA, A.
BLOOD CELL CHANGE IN ATHLETES DURING EXERCISE AND
SAUNA BATH AND RELATION TO ADAPTATION IN SPORTS
A64-81232

FORSSMAN, B.
VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF
CALORIC NYSTAGMUS, LATEROTORSION, AND VERTIGO IN
MAN
A64-80340

FORSTER, R. E.
CARBON DIDXIDE EFFECT ON PULMONARY VASCULAR
RESISTANCE
A64-80701

FORTNEY, R. E.
RADIATION DOSE DISTRIBUTION IN MODEL ASTRONAUT
AMRL-TDR-64-9
N64-18629

FOSTER, D. L.
LIFE SUPPORT SYSTEMS IN SPACE ENVIRONMENT
EXAMINED, PROPOSING NORMAL SEA-LEVEL ENVIRONMENT
FOR EARLY MANNED SPACE OPERATIONS

RESPIROMETER AND LIFE SUPPORT SYSTEM FOR POTATO SPECIMEN IN SPACE ENVIRONMENT NASA-CR-58945 N64-33189

FOSTER, G. L.

HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY

NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA

PECTORIS

A64-81077

FOSTER, R. F.
SURVEILLANCE OF RADIOACTIVE MATERIALS IN AIR,
WATER, AND FOOD
HM-79652
N64-14924

FOTHERBY, K.

ADRENOCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER

STRESS CONDITIONS

A64-12990

FOULKE, E.
ELECTROCUTANEOUS COMMUNICATION BASED ON LOCUS
DIMENSION A64-80309

CUTANEOUS CODE TRANSFER TO DIFFERENT LOCI
A64-80584

FOURNIER, P. E.
NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND
HUMAN CASE REPORTS A64-81152

FOWLER, K. T.
PULMONARY BLOOD FLOW DURING EXERCISE IN
COMPARISON TO RESPONSE TO HYPOXIA AND
AMINOPHYLLINE

REPRODUCIBILITY OF TRANSIENT RESPONSE TO CARBON DIOXIDE INHALATION IN MAN A64-80766

A64-80739

RELATIVE COMPLIANCES OF WELL AND POORLY VENTILATED SPACES IN NORMAL HUMAN LUNG A64-81013

FOX, C. F.

CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
STRUCTURE AND ENZYME ACTIVITY A64-80074

FOX, M.

METHODS OF TESTING & MEASUREMENT OF NONORGANIC
HEARING IMPAIRMENT
AD-425085
N64-1361

FOX, R. H.
MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED
BDDY TEMPERATURE
A64-80272

SMEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

LOCAL SMEATING RESPONSE TO HEATING AND LOCAL SMEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BUDY 0.464-80940

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION
BEHAVIOR IN RELATION TO ANXIETY AND SHOCK

A64-80150

FUX, S. W.
AMINO ACID COMPOSITIONS OF PROTEINDIDS

N64-12944

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID N64-19825

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES
NASA-CR-50483 N64-22775

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIGGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NSA-CR-56526 N64-22787

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS
NASA-CR-56527
N64-227

ORIGINS OF AMINO ACIDS AND PROTEINS - MOLECULAR EVOLUTION N64-27797

FOYE, W. O.
AMINO ACID ESTERS OF 2-MERCAPTOETHYLAMINE FOR
RADIATION PROTECTION
A64-80909

FRADKIN, G. E.

IONIZING RADIATION EFFECT ON STABILITY OF GENETIC
INFORMATION STORAGE AND TRANSMISSION MECHANISMS IN
TERMS OF CYBERNETICS

A64-27587

FRADKIN, G. YE.
STABILITY OF HETEROGENEOUS DEOXYRIBONUCLEIC ACID
TO IONIZING RADIATION
JPRS-25282
N64-24487

FRAGDYANNIS, G.
ELECTROCARDIDGRAM IN SINUS TACHYCARDIA AND
AURICULAR HYPERTROPHY A64-80024

FRAJOLA, W. J.

CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
STRUCTURE AND ENZYME ACTIVITY

A64-80074

FRANCIS, R. D.
PRIOR INSTRUCTIONS, TIME ORIENTATION, SEX, AND
SKILL IN SCUBA DIVING AS RELATED TO TOLERATION OF
SENSORY ISOLATION
A64-80965

FRANK, G. M.

CELLULAR AUTOMATIC CONTROL OF ENZYMATIC TRANSFER
OF NUCLEOSIDE SUBSTANCES

N64-12510

PRIMARY AND INITIAL PROCESSES OF BIOLOGICAL EFFECT OF RADIATION JPRS-23426 N64-16902

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSUES N64-16907

RATIONAL ANALYSIS OF RELATIONSHIPS BETWEEN RADIO-CHEMICAL, BIOLOGICAL, AND CYTOCHEMICAL DATA OF RADIOBIOLOGY N64-16909

FRANKE, V. A.
ELECTRONICS AND INDUSTRIAL SAFETY
FTD-TT-63-1200/164

N64-22160

FRANKEL, H. M.
CHANGES IN CEREBRAL METABOLIC PARAMETERS OF DOGS
DURING PROGRESSIVE HYPOTHERMIA
SAM-TDR-64-44
N64-29288

FRANKENHAEUSER, M.
CATECHOLAMINE EXCRETION AND PERFORMANCE DURING
STRESS A64-80743

TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE REACTIONS TO D-AMPHETAMINE AND PHENOBARBITAL A64-80780

FRANKLIN, D. L.
CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABDONS
DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND
EXERCISE
A64-80087

BLOOD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS A64-80916

FRANKOWITZ, S. H.
RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA
PIGS INHALING LOW CONCENTRATIONS OF OZONE AND
NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE
A64-80457

FRANKS, W. R.
PHYSIOLOGICAL REACTIONS TO ACCELERATION STRESS AND
PROTECTIVE CLOTHING
N64-13453

MEASUREMENT OF POST-MORTEM LACTIC ACID
CONCENTRATIONS IN ASSESSING ANTE-MORTEM HYPOXIA
N64-14586

FRANQUE, E.
TRANSPORTATION TECHNIQUES OF AEROMEDICAL
EVACUATION IN ALGERIA
A64-80035

FRANTIK, E.

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN
STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS
JPRS-25861
N64-27066

FRANZINI, C. PROTEIN AND LIPID CHANGES OF BLOOD SERUM DURING NORMAL AGING IN MAN A64-81070

FRASER, T. M.
HIGH SPEED LOW LEVEL FLIGHT - PHYSIOLOGICAL
RESPONSES DURING AND AFTER FLIGHT
A64-80333

FRAYSER, R.

ARTERIAL OXYGEN SATURATION REDUCTION DUE TO
INDUCED HYPERLIPIDAEMIA IN HUMANS BY INTRAVENOUS
INFUSION OF FAT EMULSION

A64-10789

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND DXYGEN CONCENTRATIONS

A64-B0941

FRAZIER, L.

MODERATE POSTSTIMULATORY FATIGUE EFFECT ON EAR
TUNING, USING BINAURAL PITCH MATCHING DATA
A64-1800

AUDITORY RESPONSE TO REPEATED EXPOSURE TO HIGH INTENSITY SOUND A64-80668

FREDKIN, E.
PROGRAMMING NEEDS FOR AUTOMATED LABORATORY FOR
PSYCHOLOGICAL RESEARCH
ESD-TDR-63-353
N64-14469

FREDRICKSON, A. G.
EFFICIENCY IN PHOTOSYNTHESIZING ALGAL CULTURES
INCREASED, USING PHOTOSYNTHETIC GAS EXCHANGER WITH
FLASHING LIGHT EFFECT A64-16191

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION N64-11436

FREEBERG, N. E.

THRESHOLD FOR VISUAL PERCEPTION OF RANDOM FORMS
UNDER DEGRADATION AND STEREOSCOPIC CONDITIONS
ESD-TDR-63-136
N64-13656

FREED, A. M.
HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE
FOR TITAN II ENGINE
LRP-317/TDR-63-218
N64-26025

FREEDMAN, S. J.
DISORDER IN THE MOTOR-SENSORY LOOP CAUSES
INSTABILITY IN HUMAN PLASTIC SYSTEMS OF
COORDINATION
A64-10090

FREEMAN, N. K.
INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM
LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION
N64-22860

INFRARED SPECTROPHOTOMETRY FOR MICRODETERMINATION OF SERUM TRIGLYCERIDES AND CHOLESTERYL ESTERS N64-22862

FREGLY, M. J.
HYPOXIA EFFECTS ON BLOOD PRESSURE AND THYROID
FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS
A64-23254

FREIDEL, V. R.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT A64-2558

FREIER, P.
SOLAR FLARE RADIATION HAZARDS, DISCUSSING PARTICLE
FLUX CALCULATIONS AND RADIATION DOSAGE UNDER
VARIOUS SHIELDING THICKNESSES A64-13477

FREIFELDER, D.
RING STRUCTURE OF SINGLE STRAND DEOXYRIBONUCLEIC
ACID SHOWN BY ELECTRON MICROSCOPY

N64-30785

FREINKEL, N.
EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS
RELATED TO GLUCOSE UTILIZATION A64-80732

FREMMING, B. D.

ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE
EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC
FIELDS

A64-8084

FRENCH, J. D.
ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL
STUDIES OF BRAIN FUNCTION AND BEHAVIOR
AFOSR-64-1195 N64-3046

FRENK, S.

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

N64-17885 Freundlich, H. F.

FREUNDLICH, H. F.
HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
ULTRASOUND ON LABYRINTH AND TEMPORAL BONE
A64-80979

FREY, H. H.

THRESHOLD OF DISTORTION EXPLORED FOR DETECTION OF
SUSCEPTIBILITY TO ACOUSTIC TRAUMA

A64-B0987

FREY, T.

CELL REGULATION PROBLEMS - LECTURES IN MOLECULAR
BIOLOGY
JPRS-26558
N64-30777

FREYDEL, V. R.

COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR
DIAGNOSIS OF HEART MALFUNCTION N64-23698

FRICK, M. H.

BASE-LINE EFFECTS ON RESPONSE ON STROKE VOLUME TO
LEG EXERCISE IN THE SUPINE POSITION

A64-80736

FRIED, R.
MONOCULAR AND BINOCULAR COMPARISON OF APPARENT
SIZE
A64-8130

FRIEDEL, W.
FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER
GRADED PHYSICAL STRESS A64-81327

FRIEDMAN, M.

HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH
AS RELATED TO CARDIOVASCULAR DISEASE

A64-80821

FRITZ, E. A.

STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA
FOR SIZING OF PROTECTIVE CLOTHING
AMRL-TDR-64-66 N64-31842

FROGGATT, P.
ACCIDENT PRONENESS AND INDIVIDUAL VARIATION IN
LIABILITY A64-80403

FROLKIS, V. V.

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC
RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS

A64-8004

FROLOV, N. I.

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING
IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM
A64-27274

FROLOV, YU.

ROLE OF CYBERNETICS IN MEDICAL SCIENCE & PRACTICE
JPRS-22647 N64-13085

FROLOVA, L. T.
WORKING CONDITION EVALUATION & HEALTH STATUS OF
PERSONNEL DEALING WITH ULTRAHIGH FREQUENCY
ELECTRIC CURRENTS
N64-11858

FROST, G. G.

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS
TASK USING PREDICTOR DISPLAY
AMRL-TOR-64-55

N64-27445

FRUTTERO, F.
VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT,
AND CAT AS AFFECTED BY CHLORPROMAZINE

A64-81208

FRY, D. L.

GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL
EXPIRATORY FLOW VOLUME RELATIONSHIP

A64-80068

FRY, G. A.

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM
XENON-FILLED FLASH TUBE
SAM-TDR-64-36

N64-33352

FRYER, D. I.

DECOMPRESSION SICKNESS AT 18,500 FEET - CASE
HISTORY OF PILOT

A64-80442

PHYSIOLOGICAL REQUIREMENTS FOR PROTECTION AGAINST ATMOSPHERIC PRESSURE CHANGES FPRC/MEMO-201 N64-2869

DECOMPRESSION SICKNESS OF PILOT IN UNPRESSURIZED AIRCRAFT IN TROPOSPHERE FPRC-MEMO-199 N64-29768

FU, K. S.
HUMAN OPERATOR ADAPTATION TO DISCRETE AND
CONTINUOUS TIME VARIATIONS IN CONTROL SYSTEM
A64-24841

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN
OPERATOR IN VISUAL-MANUAL TRACKING SITUATION
TR-EE64-15 N64-30018

FUJIUARA, T.
DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING
A64-80591

FUKUDA, T.

VESTIBULAR FUNCTION - DECLINE IN DURATION OF
POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH
REPEATED MOTIONS
A64-80245

FULEIHAN, F. J. D.
BLOOD, CARBON DIOXIDE, AND REGULATION OF
RESPIRATION DURING EXERCISE
A64-8045

FULLER, E. A.
PHYSIOLOGICAL RESPONSES ASSOCIATED WITH TIME
ESTIMATION IN HUMAN OPERANT SITUATION
A64-80801

PERSONAL AUTHOR INDEX GALZIGNO, L.

FUNK, J. H. REVIEW OF THE SYMPTOMS, ETIOLOGY AND TREATMENT OF THE COMMON COLD, WITH SPECIAL ATTENTION TO THE AEROMEDICAL PROBLEM IT PRESENTS

A64-10265

N64-28696

FUNKHOUSER, G. E.
MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS CARI-63-25

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION MEDICINE, AND BIOPHYSICS N64-10328

PATHOLOGICAL ANATOMY OF ACUTE RADIATION SICKNESS IN RABBITS AEC-TR-5630 N64-10430

FUNTIKOV, B. A.
CLIMATIC EFFECT ON EXCITABILITY OF VISUAL & AUDITORY ORGANS IN MAN N64-13584

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS
DURING SENSORY DEPRIVATION A64-81 A64-81212

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS N64-21056 NT.JS-R-421

TOLERANCE OF MICE X-IRRADIATED IN HYPEROXIC

ENVIRONMENT TO EXPLOSIVE DECOMPRESSION A64-80441

LIDOCAINE HYDROCHLORIDE AND VIBRATIONAL STRESS AS RELATED TO DECOMPRESSION TOLERANCE OF RAT

PROTECTIVE EFFECT OF XYLOCAINE ON TOLERANCE OF VIBRATED RATS TO EXPLOSIVE DECOMPRESSION AD-432880 N64-20373

EFFECT OF VIBRATION AND RESTRAINT ON BODY WEIGHT AND SURVIVAL OF ALBINO RAT REPT.-5 N64-295

FUTTERMEIT, A.

HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING
IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN
STATIONARY SIMULATION

G

NADC-AC-6406

MODIFICATION TO FACEPIECE OF P AND Q TYPE OXYGEN MASKS FOR AIRCREMS FPRC/MEMO-194 N64-20666

GABLE, M. D.
REVIEW OF 273 CASES OF EJECTION FAILURES, GIVING
THE FATAL INJURY PATTERNS AND TOXICOLOGIC TEST A64-10263

GAEL, S.
MANPOHER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS -ESTIMATION OF REQUIREMENTS AMRL-TDR-63-110

GAFFEY, C. T.
IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE OF CAT UCRL-11005 N64-11097

CONDUCTION BLOCKAGE OF ISOLATED SCIATIC NERVE OF FROG BY HIGH ENERGY IRRADIATION

GAFFNEY, J. L. SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY A64-22635 IN X-15 AIRCRAFT

WEIGHT AND STORAGE FACTORS INVOLVED IN A MANNED MARS MISSION EMPLOYING FULLY REGENERATIVE LIFE-SUPPORT SYSTEMS 464-10113 PHOTOSYNTHETIC GAS EXCHANGERS FOR CLOSED N64-13715 **ECOLOGICAL SYSTEM**

CONVERSION OF LIGHT INTO CHEMICAL ENERGY BY LIVING ORGANISMS AFDSR-64-1192

GALANSINO, G.
ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED
DOGS TO MHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-3:

GALANTER, L.
COBALT-60 BULK GRAIN IRRADIATION FACILITY BNL-810/T-312/

GALBAN, P.
NEPHRITIS AND RENAL CALCULUS IN FRENCH AIRCREWS A64-80032

GALE, C. C.
PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL CORTEX IN GOAT

GALININA, T. B.
NUTRIENT MEDIA FOR CULTIVATION OF CHLORELLA PYRENOTOOSA N64-23777

GALKINA, O. I.

DEVELOPMENT OF SPATIAL CONCEPTS IN ELEMENTARY SCHOOL CHILDREN N64-25151

GALKINA, T. B.
CHLORELLA PYRENIDOSA GROWTH UNDER STIMULATORY AND INHIBITORY EFFECTS OF CULTURE LIQUIDS A64-25611

GALKOVSKAYA, K. F. LEUKOSIS IN MICE DUE TO IONIZING RADIATION N64-12724

CYSTEAMINE ASCORBATE AS SHIELDING AGENT IN ANIMALS GIVEN PRIMARY & SECONDARY IRRADIATION N64-12888

FECAL FLORA IN MAN UNDER NORMAL CONDITIONS AND IN SPACE FLIGHT SIMULATION WITH SPECIAL DIET

ISGLATION OF FECAL BACTERIA AND ESTABLISHMENT OF TYPE CULTURES OF ANAEROBIC ORGANISMS NASA-CR-55561 N64-15550

PHYSIOLOGY OF PREDOMINATING TYPE CULTURES ISOLATED FROM HUMAN WASTE /FECES/ NASA-CR-58287 N64-29194

NORMAL FECAL BACTERIAL FLORA OF MAN -MORPHOLOGICAL TYPE CULTURES
NASA-CR-59257 N64-33288

GALLINI, R. UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN RADIOGRAPHIC STUDY OF EFFECT OF AGING ON VENTRICULAR STROKE AND PULMONARY CIRCULATION A64-81071

GALLO, R.
PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH SEXES BY NOISE EXPOSURE AND AGING A64-80656

GALLOWAY, W. J.
AIRCRAFT NOISE EVALUATION AS RELATED TO RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING A64-80682

GALZIGNO, L. SEROTONIN AND 5-HYDROXYTRYPTOPHAN LOADS IN RABBITS INTOXICATED WITH TETRAETHYL LEAD A64-80404

URINARY EXCRETION OF 5-HYDROXYINDOLE ACETIC ACID IN TETRAETHYL LEAD POISONING OF RABBITS A64-81085

- GAMALEYA, R. N.
 INFLUENCE OF MEXAMINE ON REACTION OF PATIENT
 SUBJECTED TO RADIATION THERAPY N64-N64-30242
- GAMBARYAN, L. S.
 NEUROPHYSIOLOGICAL ANALYSIS OF MECHANICAL,
 INTEGRATED FUNCTIONS OF ANIMAL MOTOR SYSTEM
- GAMBING, J. J.
 COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL

STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH NASA-CR-55553 N64-15902

HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF POCKET MICE NASA-CR-58526

GAMEZO, M. V.
ROLE OF SPATIAL CONCEPTS IN MAP READING AND INTERPRETATION OF AERIAL PHOTOGRAPHS N64-25159

GAMKRELIDZE, R. V.
MAXIMUM PRINCIPLE IN THEORY OF OPTIMAL CONTROL **PROCESSES** FTD-TT-62-1746/18284 N64-22143

GANCHROW, D. FIGURAL AFTEREFFECTS INFLUENCED BY EXPOSURE VARIABLES IN TACHISTOSCOPIC PRESENTATION

GANDY, G. TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLOOD OF HUMAN ADULT AND NEWBORN

A64-80071

A64-81012

ELECTRONIC EQUIPMENT FOR RHYTHMIC STIMULATION OF N64-30392

GANNETT. J. R. SUPERSONIC TRANSPORT DESIGN WITH REGARD TO BIOENGINEERING REQUIREMENTS FOR DISPLAY AND CONTROL SYSTEMS A64-24717

ARTIFICIAL HIBERNATION AND SPACE BIOLOGY N64-23756

GANSLEN, R. TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE A64-22057

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS A64-80628

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE — ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CARI-63-12 N64-14409

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845

GANYELIN, G. Z.
RADIATION DAMAGE TO OVARIES, AND ELECTRICAL
STIMULATION OF HEART IN MICE - BIBLIOGRAPHY N64-10453

GANZ. V. ADRENALIN EFFECT ON RELATIONSHIP BETWEEN DXYGEN

NEED AND SUPPLY IN HEART IN DOG

GAOS. C. CARDIAC OUTPUT AND OXYGEN CONSUMPTION AS RELATED TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING EXERCISE IN NORMAL AND HEART DISEASED SUBJECT A64-80990 GARATTINI, S.
ANIMAL STUDIES ON EFFECTS OF ANTISEROTONIN DRUGS
N64-336

GARBUS, J.
BLOOD, TISSUE, ENZYME, AND ISOENZYME CHANGES OF
RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET
A64-8132

GARCIA, J. F. PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH HUMAN URINARY ERYTHROPOIETIN - HUMAN PHYSIOLOGY N64-22854

GARNER, J. D.
HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER
EVACUATION FROM SURVIVAL ACCIDENTS A64-20760

GARTNER, W.

COLD STRESS - INTENSITY AND DISTRIBUTION OF REFLEX MUSCULAR ACTIVITY IN MAN

GARVEY. N. BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION SICKNESS IN RATS JPRS-18153 N64-10744

RELATIONSHIP BETWEEN BIOCHEMILUMINESCENCE AND HEAT RESISTANCE OF PLANTS JPRS-23735 N64-16950

GASAWAY, D. C.
NOISE ANALYSIS OF MILITARY AIRCRAFT AND SEPARATE COMPONENTS IN FLIGHT AND ON GROUND

GASENKO, O. G.
MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF
VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD N64-11862

GASTEVA, S. V.
TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE A64-81267

PERMEABILITY OF HEMATOENCEPHALIC BARRIER TO INORGANIC PHOSPHATE IN ACUTE RADIATION SICKNESS N64-10119

GATLAND, K. W. FUNCTION OF PROJECTS GEMINI AND APOLLO IN MANNED SPACE FLIGHT A64-80523

GAUER, O. H.
NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE AND VENOUS PRESSURE IN THE FOREHEAD

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENOUS PRESSURE IN THE FOREHEAD

A64-80500

GAULTIER, M. NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND **HUMAN CASE REPORTS** A64-81152

GAVRILIN, V. A.

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES

GAZENKO, O. G.
REACTION OF CARDIOVASCULAR SYSTEM OF MEN AND
ANIMALS UNDER CONDITIONS OF WEIGHTLESSNESS ONBOARD U.S. AND U.S.S.R. SPACECRAFT A64-18574

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING COSMIC RADIATION EFFECTS ON GENETIC CHARACTERISTICS OF PLANT SEEDS, CELLS AND FRUIT A64-18630

BIOLOGICAL EFFECT OF WEIGHTLESSNESS AND ACCELERATION EXPERIENCED IN SPACE FLIGHT

A64-18743

BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEOPHYSICAL ROCKET AND MANNED SATELLITE OBSERVATIONS

SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF

SENSITIVITY AND REACTION CAPABILITY OF CRANIOCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF BODY POSITION A64-25604

PHYSIOLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458

REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN PROLONGED EXPERIMENTS A64-80042

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS

A64-80896

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11 N64-11687

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N64-11688

SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT EXPERIMENTATION N64-11692

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT N64-11694

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT

STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD

THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD **ACCELERATIONS**

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837 N64-18084

REACTION OF HUMAN AND ANIMAL CARDIOVASCULAR SYSTEM UNDER CONDITIONS OF WEIGHTLESSNESS NA SA-TT-F-8895 N64-22941

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM FTD-TT-63-719/182 N64-23309

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS N64-23737 N64-23737

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770

RHYTHM VARIATIONS OF NEURONS OF RETICULAR FORMATION DURING LATERAL OVERLOADS

NASA-TT-F-230 N64-26784 REACTION OF NEURONS OF VESTIBULAR NUCLEI TO

STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS .IPRS-25896 N64-27323

REACTION OF CARDIOVASCULAR SYSTEM OF MAN AND

ANIMALS UNDER WEIGHTLESSNESS

N64-29090

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE N64-32796

JPRS-26994

GEBER. W. F. HYPODYNAMIC STATE INFLUENCE ON HEMODYNAMICS OF ANESTHETIZED DOG DURING SIMULATED WEIGHTLESSNESS

A64-27605

MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE CHANGE A64-80541

GEDYE, J. L. LATERALITY FACTOR IN RELATIONSHIP BETWEEN HAND PREFERENCE PATTERN AND FLYING SKILL IN AIRCREW TRAINING A64-22817

HAND PREFERENCE IN PILOTS AS RELATED TO FLYING A64-80690

HUMAN BEHAVIOR - RELATION OF CONSISTENCY AND STRENGTH OF LATERAL PREFERENCE IN ONE-HAND TASKS TO AIRCRAFT PILOT PERFORMANCE FPRC/MEMO-203 N64-26000

OPTINUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION N64-29906 SERL-64-5

SEFTER. A. I. ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES

N64-30393

GEIGER, A. CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO DXYGEN TENSION REDUCTION IN BLOOD - HYPOXIA N64-14603

GELFAND, I. N.
MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA -CYBERNETICS N64-12513

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION JPRS-24606 N64-21826

GELINEO, S.
THERMOREGULATORY SYSTEM OF HOMEOTHERMS AND POIKILOTHERMS IN COLD AND HOT ENVIRONMENTS A64-80419

GELLER. I.

ACCELERATION FORCES CAUSING DISRUPTION OF TIMING BEHAVIOR IN WHITE RAT A64-13748

GENERALES, C. D. J., JR.

SPACE RESEARCH CONTRIBUTION TO KNOWLEDGE OF THE

ORIGIN OF LIFE, CLOSED ECOLOGICAL SYSTEMS, EFFECTS

OF WEIGHTLESSNESS AND RADIATION, AND MEASURING A64-80124 INSTRUMENTS

GENEROZOVA, I. P.
OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS,
NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND
A64-25602

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS N64-23768

GENES, V. S.
HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO
N64-1: RADIATION N64-12784

GENIN, A. M.
LIFE SUPPORT SYSTEMS FOR ARTIFICIAL ATMOSPHERES IN A64-25573 SPACECRAFT CABINS

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667 MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696

FORMATION OF ARTIFICIAL ENVIRONMENT IN SPACESHIP CABIN N64-23739

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT
NASA-TT-F-9131 N64-2 N64-29730

GENKIN, A. A.
VISUAL PERCEPTION STUDIES & PSYCHOLOGY N64-12504 JPRS-19615

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING N64-1 N64-12505

GEORGE, J. C.
UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF PIGEON DURING EXERCISE A64-80734

GEORGIADIS, E.
ELECTROCARDIOGRAM IN SINUS TACHYCARDIA AND AURICULAR HYPERTROPHY A64-80024

GEORGIYEVSKIY, V. S.
SELECTION & PREPARATION OF DOGS FOR SPACE FLIGHT **EXPERIMENTATION**

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT

GERARDE, H. W.
ADAPTATION IN MAN DURING REPEATED EXPOSURE TO INDUSTRIAL CHEMICALS OF SIGNIFICANCE IN AEROSPACE MEDICINE 464-80430

GEREB, G. DYNAMICS OF FATIGUE CONDITION DETERMINATION USING REFLEXOMETER AND TREMOMETER TO MEASURE MOTOR REACTION TIME AND FINGER TREMOR

GERGHESE, C. A.
THRESHOLD WIDTH OF OBJECT MOVING BEHIND SLIT DETERMINED FOR DIFFERENT SPEEDS

A64-20346

GERNANDT, B. E.
SPINAL MOTOR RESPONSE TO ACQUISTIC STIMULATION IN LIGHTLY STRYCHNINIZED CAT A64-80962

COMPARISON OF AUTONOMIC AND SOMATIC MOTOR OUTFLOW TO VESTIBULAR STIMULATION - MOTION SICKNESS STUDY

SPINAL MOTOR RESPONSES TO AUDITORY STIMULI NASA-CR-58548 N64-28833

AXIAL LENGTH AND REFRACTIVE INDEX OF EMMETROPIC LIVING EYE IN MEN AND WOMEN A64-81074

THEORETICAL TOTAL REFRACTION INDEX OF UNACCOMMODATED LIVING EYE CALCULATED FROM SIMPLE OPTICAL MODEL A64-81075

GERSHENOVICH, Z. S.
HYPEROXIA EFFECT ON PROTEOLYSIS OF BRAIN OF WHITE
RATS FOLLOWING OXYGEN EXPOSURE OF 6 AND 3.5 ATMOSPHERES FOR VARYING TIME

GERSHUNI, G. V.
BIOLOGICAL ANALYZER SYSTEMS STUDY - CYBERNETICS

GERSTEIN, G. L.
RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUDITORY STIMULI IN CATS

GERVAIS, P. NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND HUMAN CASE REPORTS

A64-81152

GERVAIS, R. L.
SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

N64-11808

GESTELAND, R. C.
NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA

PLASMA CHANGES DUE TO CHANGES IN CONCENTRATION OF CHLORIDE AND CARBON DIOXIDE BY THERMAL DEHYDRATION N64-10783

GETTYS, C. F.
ALERTED EFFECTIVE THRESHOLD IN AUDITORY VIGILANCE TASK A64-80662

GIAMMANCO, R. P. EXPOSURE OF MICROORGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE NASA-CR-59092 N64-3 N64-33099

GIBSON, W. A. MICROORGANISMS IN HUMAN GINGIVAL TISSUES N64-13865 SAM-TDR-63-88

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY SAM-TDR-64-4 N64-17963

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION SAM-TR-63-82 N64-30498

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS SAM-TDR-64-57 N64-32981

GIFFORD, E. C.
FLIGHT SURGEON USE OF ANTHROPOMETRY IN ASSESSING POTENTIAL ACCOMMODATION OF PILOT IN NAVAL AIRCRAFT

GIGAURI, V. S.
TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME

N64-12772

GILBERT. G. CONVULSIONS PREVENTED BY TREATMENT WITH MANGANESE SULFATE IN RATS EXPOSED TO OXYGEN UNDER PRESSURE A64-80283

GILDNER, G. G.
EXPERIMENT FOR COLLECTING EMPIRICAL DATA ON HUMAN PERFORMANCE IN COMMAND AND CONTROL SYSTEMS A64-22513

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO DXYGEN INTAKE, VENTILATION, AND HEART RATE

FALLING EFFICIENCY AT SORTING CARDS AND WEIGHT LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN HIMALAYAS A64-80915

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /19,000 FEET/ ELEVATION IN HIMALAYAS

GILL, W. L.
RADIATION DOSIMETRY ABOARD MERCURY /MA-8/ SPACECRAFT NASA-TN-D-1862 N64-28320

NEUROLOGIC ASPECTS OF HIGH BAROMETRIC PRESSURE PHENOMENA AND EFFECT OF ATMOSPHERIC CONTAMINANTS UPON NERVOUS SYSTEM ACTIVITY N64-27693 AD-600259

GILLEY, L. W.
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK &
COBALT 60 SOURCE OPERATION IN BREN PROJECT
CEX-6203 N64-10408

GILLINGHAM, K.
MECHANISM OF MOTION SICKNESS IN CAT

A64-80234

GILSTRAP, L. O., JR.
PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369 N64-32865

GINET
DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL
FRACTURES OCCURRING DURING FORCED OR FAULTY
LANDINGS IN FRANCE
A64-80285

GINET, J.

ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS

OF WEIGHTLESSNESS

A64-13753

PHYSIOLOGICAL REACTIONS OF CATS DURING ROCKET FLIGHT A64-24259

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE
OF HEART AND RESPIRATORY RATES OF RATS TO
ACCELERATION
A64-80031

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED ORIGIN A64-80717

GINOZA, H. S.

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER
FACTOR AND CHROMOSOME OF ESCHERICHIA COLI
NASA-RP-296

N64-28231

GINSBURG, T.

BIOLOGICAL AND TECHNOLOGICAL PROBLEMS OF MANNED

SPACE FLIGHT

A64-80602

GINZBURG, H.

CARBON DIOXIDE CONCENTRATION AS RELATED TO PHOTOSYNTHESIS IN MASS CULTURE OF ALGAE

A64-80608

GIRARD-WALLON, C.
PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT
AND GUINEA PIG
A64-81155

GIRARDI, F.
SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE
ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION
ANALYSIS & STUDIES ON BIVALVE MOLLUSK
EUR-474.E
N64-15672

GIROTTI, G.
IMPROVEMENT OF PERIPHERAL VISUAL ACUITY IN BOTH
EYES FOLLOWING AUDITORY STIMULATION
A64-B0189

GITELZON, I. N.
AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL
ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING
TRANSITION PROCESSES DURING GROWTH OF CULTURES
A64-25615

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

GIULIANT, V.
HUMDRAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT
AFTER BENZENE POISONING
A64-80670

GIUMARRO, C.
TOXIC EFFECTS OF ELEVATED OXYGEN LEVELS ON PLANTS,
INVERTEBRATES AND HUMAN CELLS
A64-10258

GIURD-HIAN, A. A.
FUNCTIONAL STATE OF ORGAN OF EQUILIBRIUM IN WHITE
MOUSE GROWN WITH DAILY EXPOSURE TO ACCELERATION
A64-81023

GIURDZHIAN, A. A.
REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN
PROLONGED EXPERIMENTS A64-80042

GLAESER, R. M.
ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD

CELLS UCRL-10898

N64-22855

GLAISTER, D. H.

PULMONARY GAS EXCHANGE AND LUNG FUNCTION IN MAN
DURING POSITIVE ACCELERATION IN SITTING POSITION
FPRC-1212

N64-22218

GLANZER, M.
ELECTROENCEPHALOGRAPHIC CHANGES /ALPHA AND KAPPA
RHYTHMS/ DURING MENTAL ACTIVITY IN HUMANS
A64-81043

GLAVATY, V.

POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING
BODY REACTION TO SMALL DOSES OF IONIZING RADIATION
BY OBSERVING PHOSPHINE THRESHOLD OF RETINA
N64-15679

GLEASON, T. L., III
RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL
STRESS
ARL-TOR-63-26
N64-1404

DESIGN AND FABRICATION OF MASK AND HELMET FOR CHIMPANZEE RESPIRATORY SYSTEM RESEARCH ARL-TDR-64-3 N64-21311

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES
UNDER STABLE FLIGHT CONDITIONS
ARL-TDR-64-4
N64-26197

GLEMBOTSKII, IA. L.
MUTATION FREQUENCY OF DCCURRENCE FOR DROSOPHILA
MELANOGASTER CARRIED BY VOSTOK SPACECRAFT

GLEMBOTSKIY, YA. L.

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC
MUTATION OF DROSOPHILA MELANOGASTER INSECTS
N64-11680

INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TI-F-RR26

GLEM, D. H.
BIOLOGICAL EFFECT OF LASER RADIATION ON ANIMAL
TISSUES
A64-20638

GLEZER, V. D.
VISUAL SYSTEM - SYNCHRONOUS AND CONSECUTIVE
INFORMATION PROCESSING A64-80778

VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS N64-12523

GLICK, G.
CIRCULATORY RESPONSE TO HYPOXIA IN
UNANESTHETIZED DOG WITH AND WITHOUT
CARDIAC DENERVATION

A64-81061

GLOD, G. D.

ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING
METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN
DOGS AND RATS

A64-25590

ARTIFICIAL HIBERNATION AND SPACE BIOLOGY

N64-23756

GLORIG, A.

PERMANENT THRESHOLD SHIFT CHANGES PRODUCED IN BOTH
SEXES BY NOISE EXPOSURE AND AGING

A64-R0656

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425085 N64-13615

GLUSHKOV: V. M.
COMPARATIVE ELECTRONIC APPARATUS OPERATION STUDY
OF CYBERNETIC MECHANISM
JPRS-18873
N64-10506

GENERAL PURPOSE DIGITAL COMPUTERS IN CYBERNETICS ~

SIMULATION OF BIOLOGICAL SYSTEMS, SELF-ORGANIZING AND TEACHING, AND VISUAL IMAGE PERCEPTION

GNOSIOLOGICAL NATURE OF INFORMATION MODELING
JPRS-22518
N64-12144

GNEDENKO, B. V.
MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA CYBERNETICS
N64-12516

GODDING, R. M.
UTILIZATION OF URINARY NITROGEN BY CHLORELLA
PYRENOIDOSA FOR BIOLOGICAL REGENERATION SYSTEM
FOR LONG TERM SPACE FLIGHT
A64-80828

GODIN, V. P.
EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND
RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
N64-12434

EXCRETION RATE OF SODIUM-24 FROM SODIUM CHLORIDE AND CAFFEINE AS FUNCTION OF RATS NERVOUS SYSTEM N64-12437

GODDY, A.
QUANTITATIVE ANALYSIS BY RADIDACTIVE PHOSPHORUS-32
OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
N64-13474

GOEDEKE, A. D.
PROPERTIES OF SOLAR, AND GALACTIC RADIATION AND
METHODS OF RADIATION SHIELDING
A64-80789

GOGEL, W. C.

VARIATION OF VISUAL PERCEPTION OF PERCEIVED
FRONTOPARALLEL SIZE AND DEPTH WITH OBSERVATION
DISTANCE

A64-15170

INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND PERCEIVED ABSOLUTE DISTANCE A64-80139

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
A64-80318

SIZE CUE OPERATING IN VISUALLY PERCEIVED DISTANCE
A64-81295

DEPTH PERCEPTION FROM BINOCULAR DISPARITY
CARI-63-10 N64-15165

VISUAL PERCEPTION OF SPATIAL EXTENT - RELATION BETWEEN PERCEIVED & PHYSICAL DISTANCE CARI-63-20 N64-17235

ADJACENCY PRINCIPLE APPLIED TO PERCEPTION OF RELATIVE DEPTH FROM SIZE CUES CARI-63-28 N64-23619

GOKSEL, S. A.
TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING
MONKEYS AND RATS
UR-635
N64-10616

GOLD, A. J.
ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND
AMOEBA EXPOSED TO ATMOSPHERIC OXYGEN
A64-20699

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMOEBA, PELOMYXA CAROLINENSIS A64-80505

GOLD. T.
VISUAL GUIDANCE AIDS FOR MANUAL FLIGHT CONTROL
A64-23298

GOLDBERG, M. E.
POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY
INHALATION OF NINE SOLVENT VAPORS

A64-81096

BEHAVIOR AND BODY WEIGHT OF RAT INHALING
TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS
A64-81242

GOLDBERG, S.
PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY
HYPERVENTILATED DOG AS RELATED TO PH AND CARBON

DIOXIDE TENSION

A64-81009

GOLDBERG, YE. D.
ACID STABILITY OF BLOOD ERYTHROCYTES IN HUMAN
BODIES BY IONIZING RADIATION
JPRS-18938
N64-11317

IONIZING RADIATION EFFECT ON DEVELOPMENT OF LEUKEMIA IN MAN JPRS-22520 N64-12145

(3-22520 104 1214)

GOLDBLITH, S. A.

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON
VIABILITY OF MICROORGANISMS
NASA-CR-56524
N64-22785

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY
OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT
NASA-CR-56525 N64-22786

GOLDENBERG, L.
GALVANIC STIMULATION OF VESTIBULAR SYSTEM AND
PERCEPTION OF VERTICAL IN PRESENCE OF TILTED
VISUAL FIELD
A64-80703

GOLDFARB, J. L.
TIME DISCRIMINATION - AUDITORY AND VISUAL TIME
JUDGMENT A64-80358

AUDITORY-VISUAL DIFFERENCES IN TIME JUDGMENT MAINTAINED WITH WHITE LIGHT AND WHITE SOUND STIMULI A64-81217

GOLDHABER, M. H.
NAVIGATION & GUIDANCE OF INSECT BY SENSE OF SMELL
LAMS-3027 N64-17241

GOLDING, L. A.
D-AMPHETAMINE SULFATE INFLUENCE ON PHYSICAL
PERFORMANCE
A64-80388

GOLDMAN, D. E.
PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF
VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

GOLDMAN, J. K.
PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99
PERCENT DXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223

GOLDMAN, R. F.
SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT
ON PLASMA FREE FATTY ACIDS DURING PHYSICAL
EXERCISE
A64-80884

GOLDMANN, J. B.
BIBLIOGRAPHY - RADIATION EFFECT ON ANIMALS, MAN,
AND PLANTS
SB-62-60 N64-20517

BIBLIOGRAPHY OF RADIATION EFFECTS ON LIVING ORGANIC MATERIAL SB-62-60, VOL. II N64-25511

GOLDRICK, R. B.
STARVATION AND REFEEDING EFFECTS ON LIPOGENESIS
AND FREE FATTY ACID METABOLISM IN OBESE AND
NONOBESE HUMAN
A64-81047

GOLDSHVEND, 8. L.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752

GOLDSMITH, J. R.
TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF
FLUCTUATING CARBON MONOXIDE EXPOSURES FROM

MULTIPLE SOURCES

A64-80075

GOLDSMITH, R.
MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED
BODY TEMPERATURE
A64-B0272 A64-80272

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

GOLDSMITH, W. M.
STEREODEPTH FROM AFTERIMAGES

A64-81213

COMPUTER AND RELATION TO HUMAN PERCEPTION A64-81164

TIME DISCRIMINATION - AUDITORY AND VISUAL TIME JUDGMENT A64-80358

AUDITORY-VISUAL DIFFERENCES IN TIME JUDGMENT MAINTAINED WITH WHITE LIGHT AND WHITE SOUND ST I MULT A64-81217

GOLENHOFEN, K.

COLD STRESS - REGULATION AND DISTRIBUTION OF REFLEX MUSCLE ACTIVITY IN MAN A64-80344

RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS

N64-22731

PHYSIOLOGICAL REACTION OF HUMAN BODY DURING ACCELERATION DIRECTED ALONG SPINE-BREAST AXIS FTD-TT-63-1095/162 N64-N64-21941

PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO **ACCELERATION**

N64-23697

GOLOVCHENKO, S. F. CARDIOVASCULAR, RESPIRATORY, AND NETABOLIC RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS

A64-80044

GOLUBKOVA, F. S.
INJURIES FROM X-IRRADIATION

JPRS-24185

N64-18967

GOLUEKE, C. G.

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND MICROTERELLA ADVANCED MODEL DESCRIPTION SERL-64-5

N64-29906

GOMBOS, G.
CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO OXYGEN
TENSION REDUCTION IN BLOOD - HYPOXIA
N64-14603

GOMORI, P.
DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY

NASA-TT-F-9110

GOODALL, M. C. URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-80200

ANALOG MODEL FOR CONSTRUCTABILITY OF INDUCTIVE LOGIC - COMPUTER SIMULATION N64-1 N64-18839

PHYSIOGICAL RESPONSES OF MAN IN ORBIT, EMPHASIZING WEIGHTLESSNESS AND IONIZING RADIATION A64-16313

GOODGLASS, H.
HANDEDNESS AND DIFFERENTIAL PERCEPTION OF VERBAL
STIMULI IN LEFT AND RIGHT VISUAL FIELDS

A64-80202

GOODLAND, R. L.
IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT ANTIBODY TO RAT FIBRINGEN IN NORMAL AND

TUMOR-BEARING RATS UR-634

N64-10190

GOODMAN, M. W.

QUANTITATIVE INTERACTIONS OF INCREASED DXYGEN AND CARBON DIOXIDE TENSIONS UPON RESPIRATION IN MAN

GOODRICH, R. M.

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM

GORANOV, A.

RELATIONSHIPS BETWEEN BIOLOGY & CYBERNETICS

GORBACH, M. L.
INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS JPRS-23060

GORBAN, G. M.
EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY
SEALED CABIN WITH REFERENCE TO AIR PURIFICATION
ACA-2558 REQUIREMENTS

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755

JPRS-21586

JPRS-21976

BEFFECTS OF CHRONIC IRRADIATION ON CIRCULATION IN WORKERS EXPOSED TO OVERDOSES OF X-RAYS AND GAMMA RAYS - INDUSTRIAL SAFETY

GORBOY, F. D.
EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON

MAN - SELECTION & TRAINING OF ASTRONAUTS, AND NUTRITION PROBLEMS

FUNCTIONAL ANALYSIS OF HUMAN ENGINEERING -**PSYCHOLOGY**

N64-10852

SPACE PSYCHOLOGY

FTD-MT-63-68/18384

N64-14375

N64-10197

STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING ISOLATION FROM EXTERNAL STIMULI

N64-21288

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTD-TT-63-1015/18284 N64-N64-21938

GORBUNOV, O. N.

ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLOOD, AND TISSUE RESPIRATION IN RAT AND RABBIT

A64-80560

GORDEE, R. S.
EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS
SYSTEM IN VIVO AND AT CELLULAR LEVEL
NASA-CR-58974
N64-3309

N64-33095

GORDON, J. I.
VISUAL DETECTION LOBES IN CALCULATING DETECTION
PROBABILITY IN VISUAL SEARCH STRATEGIES

A64-17

A64-17626

GORDON, J. J.
ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING

BLACKOUTS INDUCED BY ACCELERATION NADC-ML-6402

N64-20450

GORDON, L. K.
EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III SPACECRAFT ON SEED OF HIGHER PLANTS

ENGINEERING SAFETY IN MISSILE-SPACE SYSTEMS

N64-25823

BIOLOGICAL RESPONSE TO CONTINUOUS ACCELERATIONS IN

ORDER OF MAGNITUDE OF MICRO-G NASA-CR-51180

N64-22776

GORDY, W. WATER VAPOR FOUND TO PROTECT ARTEMIA CYSTS FROM RADIATION DAMAGE OR TO HEAL THE DAMAGE

A64-10092

GORGILADZE. G. I.

VESTIBULAR STIMULUS EFFECTS ON ELECTROCORTICOGRAM A64-80870 IN CAT

POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT A64-80871

ELECTROPHYSIOLOGICAL STUDY OF VESTIBULAR APPARATUS MECHANISMS AND INTERCONNECTIONS BETWEEN CANALS AND NUCLEI IN MEDULLA OBLONGATA OF CATS NASA-TT-F-9147 N64-33408

GORIZONTOV, P. D.

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE JPRS-25130

N64-23255

GORMAN, H. M.
DIURNAL RHYTHM OF URINARY ELECTROLYTE EXCRETION AS RELATED TO PHYSICAL ACTIVITY AND DIETARY INTAKE

GORODETSKIY, A. A. RADIATION PROTECTION AND THERAPY FOR RADIATION SICKNESS - GALLATE THERAPY JPRS-23834 N64-17555

GORODYSKIY. V. I.

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND MEDICAL STUDIES JPRS-27237

N64-33675

WEIGHTLESSNESS EFFECTS ON EXCITABILITY OF MANS
VESTIBULAR ANALYZER A64-2 A64-25583

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS N64-23749

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS N64-27633

GORSHKOV, S. I.

ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID, BLOOD, AND TISSUE RESPIRATION IN RAT AND RABBIT A64-80560

EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND RABBITS FOR INTERNAL RADIATION DOSES CALCULATION

GAMMA RADIOACTIVITY OF RATS AND WATER PHANTOMS BY N64-12435 COBALT-60 AND CERIUM-144

EXCRETION RATE OF BROMINE-82, RUBIDIUM-86, AND N64-12436 IODINE-131 FROM RATS

GOSHEN. C. E. MANNED SPACE FLIGHT PROJECTS AND RESEARCH IN SPACE FLIGHT ECOLOGY

GOSTIMSKIY, S. A.

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT

PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT A64-80760

GOTTSCHALK, A.
POSITRON SCINTILLATION CAMERA FOR DETECTING REAL
N64-152 AND SIMULATED BRAIN TUMORS N64-15215

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY

ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

- GOULD, E. S. EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN N64-19470 CHLORELLA
- GOULD, J. D.
 SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION
 PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY A64-80604
- GOULD, T. R.
 TREATMENT OF SEVERE DECOMPRESSION SICKNESS IN A64-80216

ROYAL NAVAL HIGH-ALTITUDE SELECTION TEST AS MEASURE OF DECOMPRESSION SICKNESS SUSCEPTIBILITY A64-80225

GOURAS, P.
RETINAL RESPONSES OF DARK ADAPTED MONKEYS, MACACA MULATTA, DURING STIMULATION WITH LIGHT A64-80672

GOWDEY, C. W.
DECOMPRESSION SICKNESS IN RAT RELATED TO BODY FAT A64-80328

BLOOD PRESSURE, PH, AND NICTITATING MEMBRANE RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA

- ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS MONITOR
- GOZULOV, S. A. PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM

BIOLOGICAL AND MEDICAL CONSIDERATIONS OF SPACE FLIGHT INVESTIGATING PHYSIOLOGICAL FUNCTIONS, WORKING ABILITY, HEALTH AND SAFETY OF ASTRONAUT A64-28459

GRABER, A. L.
VIBRATORY THRESHOLD AS AFFECTED BY AGING AND
IMPAIRMENT OF PERIPHERAL CIRCULATION
A64

A64-80002

- GRABER, G. F.
 APPLICATIONS OF ANALOG SIMULATIONS IN BIOMEDICAL
- GRACHEV, K. V.
 MULTIPLE ELECTRODE IMPLANTATION INTO SUBCORTICAL STRUCTURES OF HUMAN BRAIN N64-33970 FTD-TT-63-1119/16264
- GRACHEVA, N. D.

 DETECTION OF LABELLED RIBONUCLEIC ACID IN NERVOUS
 SYSTEM OF WHITE RATS N64-27636 JPRS-26042
- STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS ON YEAST CELL REPRODUCTION N64-32955
- GRAETTINGER, J. S. CALORIC EXPENDITURE DURING PHYSICAL EXERCISE AND RELATIONSHIP TO VENTILATION AND BODY WEIGHT
- GRAEVSKII, E. IA.
 TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL A64-80964
- GRAHAM, B. ELECTROPHORESIS PREPARATION AND TEST OF CHLOROPLAST FRACTIONS FOR HILL REACTION ACTIVITY N64-28935 NASA-CR-58340
- GRAHAM, R. S. FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING AMRL-TDR-63-78 N64-11177

GRAHAM. V. FORMS OF SOIL BIOTIN

N64-15803

SEASONAL VARIATIONS IN PULSE RATE DURING ERGOMETRIC WORK TEST OF SWEDISH AIR FORCE PILOTS

POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER

GRANDJEAN, E.

ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE VARYING IN INTENSITY, DURATION, NOISE SPECTRUM, FREQUENCY, AND NUMBER OF REPETITIONS

A64-80090

SUBJECTIVE EVALUATION OF DISCOMFORT CAUSED BY DC-8
AND CARAVELLE AIRCRAFT NOISE A64-R0673 A64-80673

GRANDONICO, F.

UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN
RADIOGRAPHIC STUDY OF EFFECT OF AGING ON
VENTRICULAR STROKE AND PULMONARY CIRCULATION A64-81071

GRANDPIERRE

DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY LANDINGS IN FRANCE A64-80285

GRANDPIERRE, R.
ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS
A64-137

BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION A64-80031

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS

GRASHCHENKOV. N. I.
CHEMISTRY OF BRAIN FUNCTION 1005-24151

N64-18115

DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN TROPICAL AREAS A64-81317

RADIOBIOLOGICAL PROBLEM OF EFFECT OF IONIZING RADIATION UPON A HUMAN ORGANISM, DURING ORBITAL AND SPACE MISSIONS

AEROSPACE MEDICINE FOUNDATION AND PRINCIPLES. CONSIDERING WEIGHTLESSNESS AND HIGH ENERGY A64-23136

RELATIVE BIOLOGICAL EFFECTIVENESS OF RADIATION IN RELATION TO SPACE MEDICINE RESEARCH

A64-80277

GRAUNDY, O. V.
SENSITIVITY AND REACTION CAPABILITY OF CRANIDCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF A64-25604

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-2 N64-23770

MICROBIOLOGICAL STUDY OF BACTERIA POPULATION IN MONOLITH OF MINERAL ICE FTD-TT-63-926/182 N64-21662

GRAVELINE, D. E.

URINARY OUTPUT OF ADRENALINE AND NORADRENALINE,
PULSE RATE AND BLOOD PRESSURE OF SUBJECTS AFTER
WATER IMMERSION STUDIED, TO DETERMINE THE
SYMPATHOADRENAL RESPONSE AND ORTHOSTATIC TOLERANCE
A64-10252

ORTHOSTATIC TOLERANCE LOSS IN REDUCED GRAVITY ENVIRONMENT, OBSERVING CHANGES IN BLOOD VOLUME CIRCULATION AND NEUROADRENERGIC SYMPATHETIC

URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-8020 A64-80200

GRAVELINE, J.

INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING
SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF
GLAUCOMA INCIDENCE IN AVIATORS

A64-20 A64-20700

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL

A64-80506

GRAVENSTEIN, J. S.
ATROPINE AND SCOPOLAMINE EFFECTS ON BLOOD CIRCULATION AND HEART FUNCTION IN MAN

A64-80319

FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535

GRAY, F. D., JR.

CASE HISTORY AND TREATMENT OF OXYGEN POISONING
WITHOUT HYPOVENTILATION AFTER CONTINUOUS OXYGEN A64-81181

GRAY, R. F.
RESTRAINT & PROTECTION OF HUMAN EXPERIENCING
SMOOTH OR OSCILLATING ACCELERATIONS SIMULATING N64-13459

GRAYBIEL, A.
EMOTIONAL INSTABILITY AND SUSCEPTIBILITY TO MOTION
SICKNESS MEASURED BY PSYCHOLOGICAL TESTS,
INCLUDING THE RORSCHACH
A64-10249

SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION DURING WEIGHTLESSNESS, BY TIMING ROTATION OF ROTATION OCCULOGYRAL ILLUSION AND THE PERCEPTION OF ROTATION AFTER STIMULATION A64-13509

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION

VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX STIMULATION BY RADIAL ACCELERATION

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA SLOW ROTATING ROOM A64-81324

ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION N64-11396

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS SAM-TDR-63-78

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS NASA-CR-55620

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE NASA-CR-55622

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION
NASA-CR-55619 N64-3

EFFECT OF BODY POSITION, VISUAL REFERENCE CUES, AND TIME UPON JUDGEMENT OF VISUAL HORIZON NASA-CR-55618

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL NASA-CR-55616 N64-15354

PERCEPTION OF POSTURAL VERTICAL AFTER PROLONGED BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR

BODILY TILT IN NORMALS & SUBJECTS WITH VESTIBULAR
DEFECTS
NASA-CR-55614
N64-15355

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS NASA-CR-55756 N64-16330

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

FUNCTIONAL DISTURBANCE OF VESTIBULAR APPARATUS AND IMPLICATIONS FOR MANNED SPACE FLIGHT NASA-CR-53958 N64-20730

HUMAN REACTIONS TO SLOW ROTATIONAL MOTION
NASA-CR-53988
N64-20731

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM N64-22433

CONTRIBUTING FACTORS IN PERCEPTION OF OCULOGRAVIC

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS

N64-22437

VISUAL PERCEPTION STUDY OF POSTURAL VERTICAL IN NORMALS AND SUBJECTS WITH VESTIBULAR DEFECTS N64-22438

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION FPRC-1207 N64-25847

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE
DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO
GRAVITY MAREUVERS
AMRL-TOR-64-47 N64-285

INTERDEPENDENCE OF FACTORS LEADING TO CORONARY
DISEASE
REPT.-9 N64-2999

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION N64-33159

GRAYEVSKIY, E. YA.
CHEMICAL PROTECTION FOR RESISTANCE TO IONIZING
RADIATION IN MAMMALS
JPRS-18918
N64-10647

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906

GRAZIANU, E. E.

IONIZING RADIATION EFFECTS ON PERFORMANCE
CAPABILITIES OF ASTRONAUTS - ANNOTATED
BIBLIOGRAPHY
SRB-63-13 N64-23365

GREATBATCH, W. H.

TRACKING APPARATUS FOR DETECTION OF SLIGHT
IMPAIRMENT OF ATTENTION AND MOTOR PERFORMANCE
A64-80709

GRECHKO, V. V.

EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF
DESOXYRIBONUCLEIC ACID AND PROTEINS

GREEN, D. M.

OPERATOR ADAPTATION TO SUDDEN CHANGES IN

CONTROLLED ELEMENT GAIN AND POLARITY BASED ON

TRACKING ERROR AND RESPONSE TIME

A64-24127

CONSISTENCY OF AUDITORY DETECTION JUDGMENTS
A64-81203

SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-PHYSICS ESD-TDR-64-174 N64-18588

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL NASA-TN-D-2255 N64-18734

GREENBERG, L. P.
PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369
N64-32865

GREENBERG, M. S.
HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION
IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

GREENE, J. W.

SPEECH DISCRIMINATION TEST TO DETERMINE SENIOR
AVIATORS QUALIFICATION TO PERFORM IN BACKGROUND OF
HIGH INTENSITY NOISE FOUND IN AN AIRCRAFT COCKPIT
A64-20692

SPEECH DISCRIMINATION TEST WITH NOISE BACKGROUND PROPOSED FOR SENIOR NAVAL AVIATORS

A64-80498

SPEECH DISCRIMINATION TEST FOR AGING NAVAL
AVIATORS PRESENTED TOGETHER WITH AIRCRAFT
BACKGROUND NOISE
A64-80854

GREENE, N. D.
THERMAL AND ELECTRICAL CONDUCTIVITIES OF
BIOLOGICAL FLUIDS AND TISSUES
GLR-24
N64-25892

GREENE, O. V., JR.
CORRELATION OF DISSOLVED NITROGEN IN WHOLE BLOOD
WITH SELECTED WHOLE BLOOD CONSTITUENTS
SAM-TDR-63-92 N64-1574

GREENE, V. W.
EXISTENCE AND IDENTITY OF VIABLE MICROORGANISMS IN
STRATOSPHERE
NASA-CR-50698
N64-22769

GREENFIELD, A. D. M.
SUBATMOSPHERIC EFFECT AND VENOUS PRESSURE ON
BLOOD FLOW IN HUMAN FOREARM AND DIGIT
A64-81239

GREENFIELD, G.

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED
MICE N64-15203

GREENFIELD, L. J.
DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION,
AND HYPOTHERMIA ON HEART OF DOG

A64-81102

GREENING, C. P.
HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING
PILOTS LINE OF SIGHT AS HEAD ROTATES

A64-24832

GREENLEAF, J. E.

ACCLIMATIZATION TO HEAT DURING EXERCISE IN
PHYSICALLY FIT SUBJECTS A64-81116

GREENSPAN, C. M.
SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID
FORMED BY BACILLUS SUBTILIS INFECTED WITH
BACTERIOPHAGE SP8
N64-25880

GREGG, L. T.
HUMAN OPERATOR PERFORMANCE IN COMPLEX MAN-MACHINE
SYSTEM SIMULATED, USING BOOLEAN ALGEBRA AND
DIGITAL COMPUTER
A64-24822

N64-18412

GREGG. L. W.
INJURY REDUCTION AND CRASH SAFETY DESIGN IN
AGRICULTURAL AVIATION
A64-19141

GREGORY, M. H. P.

FALLING EFFICIENCY AT SORTING CARDS AND WEIGHT
LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN
HIMALAYAS

A64-80915

GREGORY, R. L.

AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE
OF OCULAR AND NECK MUSCLES

A64-80072

VISUAL CONSTANCY DURING FORWARD AND BACKWARD MOVEMENT OF SUBJECTS A64-80288

VISUAL PERCEPTION STUDIES ANALYZED FOR GENERALIZATION TOWARD THEORY OF HUMAN PERCEPTION A64-80379

WEBER FRACTION EXPLORED AS FUNCTION OF PHYSICAL OR PERCEIVED SENSORY INPUT A64-80472

GRETHER, W. F.
VISUAL DBSERVATION BY AN ASTRONAUT OF ANOTHER
SPACE VEHICLE FOR SPACECRAFT RENDEZVOUS PURPOSES
A64-10626

GRIEW, S.

AGE EFFECT ON AUDITORY VIGILANCE PERFORMANCE AT
LOW SIGNAL FREQUENCY

A64-80130

AGE, INFORMATION TRANSMISSION AND POSITIONAL RELATIONSHIP BETWEEN SIGNAL AND RESPONSE IN PERFORMANCE OF MULTIPLE-CHOICE REACTION TIME TASK A64-81190

GRIFFITH, R.

ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA
DOSIMETRY
AFSHC-TDR-62-107

GRIFFITH, W. H.
BIOMEDICAL PROBLEMS OF ALTITUDE ACCLIMATIZATION
FOR MAINTENANCE OF PHYSICAL AND MENTAL PERFORMANCE
OF TROOPS AT 10,000 FEET OR ABOVE
AD-428100
N64-19965

ASCORBIC ACID PROPHYLAXIS AND TREATMENT FOR ILLNESS, TRAUMA, EXPOSURE TO COLD WEATHER, AND EXTREME PHYSICAL EXERCISE AD-429526 N64-25323

GRIGOREY, IU. G.
GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO
DETERMINE TIME CORRELATION BETWEEN VESTIBULAR
STIMULI STRENGTH AND VEGETATIVE REACTIONS

GRIGOROV, S. S.

ELECTRIC STIMULATION OF HEART AS TREATED FOR HEART
DISEASE
JPRS-24083

GRIGORYEV, YU. G. REACTIONS TO ACCELERATION JPRS-21908

N64-10383

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SLOW ROTATION N64-23696

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER

N64-23762

GRISELL, J. L.
PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND
CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT
A64-80760

GRISHAENKOV, B. G.
ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS
ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS
A64-25607

GRISHAYENKOV, B. G.

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

N64-23773

GRISHINA, K. F.
TECHNIQUES AND METHODS OF CONDUCTING
PHYSIOTHERAPEUTIC PROCEDURES
JPRS-21725

N64-10050

GRISSOM, R. J.
SENSORY DEPRIVATION AND SOCIAL ISOLATION - EFFECTS
ON PERFORMANCE OF UNSTRUCTURED COGNITIVE TASK
A64-80267

GRIUNTAL, R. G.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

GRODSKY, H. A.
HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE
OF HEALTH
ENG. REPT.-11133
N64-14943

GROEN, J. J.
AUDIBILITY OF BINAURAL BEATS AS FUNCTION OF
FREQUENCY, LOUDNESS, AND THRESHOLD LEVELS
A64-B0978

GROGNOT, P.

ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS
OF WEIGHTLESSNESS
A64-13753

GROMAKOVSKAYA, M. M.

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS
IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS
IN RADIATION SICKNESS
JPRS-21492
N64-10066

GROSS, P.

KEROSENE AND OTHER HYDROCARBON POISONING IN RATS

GRUBER, A.
HUMAN PERFORMANCE IN VIGILANCE TESTS, STUDYING
AUDITORY DETECTION, VISUAL DETECTION AND
COMBINATION OF BOTH
A64-26849

GRUDZINSKA, B.

ELECTROBENCEPHALOGRAPHIC PATTERNS IN CASES OF CHRONIC EXPOSURE TO CARBON MONOXIDE CORRELATED WITH NEURASTHENIC SYMPTOMS

A64-8049.

GRUNDLAND, I.

POSSIBLE SYNTHESIS OF ARTIFICIAL FOODS FROM ALGAE
NASA-TT-F-9146
N64-33407

GRUNZKE, M. E.

MANUALLY OPERATED PELLET FEEDER FOR PRIMATES IN
SPACE FLIGHT

A64-80188

ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE
NASA-RP-188 N64-22094

CHIMPANZEE TRAINING TECHNIQUES FOR CONTINUOUS
AVOIDANCE TASK
ARL-TDR-64-7
N64-22697

GRUSHKO, YA. M.
CHROMIUM COMPOUND POISONING
JPRS-26768

N64-31267

GRUSNICK, D.

CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING
HYPERTHERMIA OF HEAD OR WHOLE BODY

A64-80195

GRUZDEY, K. D.

ELECTRICAL STIMULATION AS THERAPEUTIC APPARATUS
FOR ULTRASONIC PHYSIOTHERAPY
JPRS-22280

N64-1187

AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC EQUIPMENT - CYBERNETICS N64-12530

GRYUNTAL, R. G.
METHODS FOR RECORDING PHYSIOLOGICAL DATA IN DOG LAYKA DURING SOVIET SPACE FLIGHT GRZESIK, J.
MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS
EVOKED BY LOUD NOISE IN GUINEA PIGS

A64-80367

GSELL, D.
HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING
PHYSICAL EXERCISE A64-81093

GUALTIEROTTI, T.

PERCEPTION OF MOTION, EQUILIBRIUM AND ORIENTATION
IN SPACE DURING WEIGHTLESSNESS A64-11429

MODIFICATION OF SODIUM TRANSPORT IN FROG SKIN BY DC FIELD EXPLAINS DEPOLARIZATION IN NERVE CELLS
A64-2497

OPERATION OF VESTIBULAR APPARATUS AND RELATED NERVE CENTERS UNDER CONDITIONS OF ZERO GRAVITY

A64-24975

GUBAREV, YE. M.

BACTERIAL CELL ENZYMES CONTRIBUTING TO VIRULENCE
AND PATHOGENICITY OF MICROORGANISMS
JPRS-27146 N64-33345

GUEDRY, F. E., JR.
VESTIBULAR ACCLIMATIZATION TO REPETITIVE COMPLEX
STIMULATION BY RADIAL ACCELERATION

A64-80999

HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA SLOW ROTATING ROOM A64-81324

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE NASA-CR-55622 N64-15349

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS INDICATOR OF OTOLITH FUNCTION
NASA-CR-55619 N64-15350

REDUCTION OF NYSTAGMUS, DISORIENTATION, AND NAUSEA IN HUMAN SUBJECTS NASA-CR-55756 N64-16330

VESTIBULAR DISORIENTATION DUE TO CORIOLIS
ACCELERATION
NASA-CR-55784
N64-16331

HUMAN PERFORMANCE - NYSTAGMUS FLUCTUATION DURING ADAPTATION TO LIVING IN ROTATING ROOM

N64-22433

VISUAL CONTROL OF ACCLIMATIZATION TO COMPLEX
VESTIBULAR STIMULATION IN MAN
NASA-CR-56896 N64-27889

ORIENTATION OF ROTATION AXIS RELATIVE TO GRAVITY - INFLUENCE ON NYSTAGMUS AND SENSE OF ROTATION NASA-CR-59286 N64-33331

GUILD, E.

AIRCRAFT NOISE EVALUATION AS RELATED TO

RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING

A64-80682

GUILLOU, R. B.
RADIOLOGICAL SURVEY CORRELATING GAMMA RADIATION
LEVEL WITH GEOLOGY
CEX-6164 N64-10407

GUNDERSON, E. K. E.

MEASUREMENT OF EMOTIONAL REACTIONS, INDIVIDUAL
PERFORMANCE AND GROUP EFFECTIVENESS OF SUBJECTS
ENGENDERED BY ISOLATION CONFINEMENT AND
ENVIRONMENTAL STRESS IN THE ANTARCTIC

A64-13515

GUREVICH, B. KH.
CONDITIONED REFLEX BASIS OF VISUAL SPATIAL
PERCEPTION N64-25139

GUREVICH, F. A.

CHEMICAL & BIOLOGICAL ACTION OF ULTRASONIC WAVES

JPRS-21-590 N64-10198

GUREVICH. I. B.
RADIATION SICKNESS - USSR

JPRS-23566

N64-16296

GUREVICH, M. D.

ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY DIAGNOSIS OF PATHOLOGICAL PROCESSES

N64-30238

GURFINKEL, V. S.

MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA CYBERNETICS N64-12513

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING
FIXED POSITION
JPRS-24606 N64-21826

GURJIAN, A. A.
BIOLOGICAL EFFECT OF WEIGHTLESSNESS AND
ACCELERATION EXPERIENCED IN SPACE FLIGHT

A64-18743

GURTNER, G. H.
GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF
AMBIENT TEMPERATURE ON TRANSFER RATE

N64-17949

GURVICH, T. KH.
PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION
OF AIRCRAFT IN INSTRUMENT FLYING
N64-25158

GURYEV, A. F.
COMBINED ACTION OF NEUTRON IRRADIATION AND
ELEVATED TEMPERATURE ON ANIMALS
JPRS-20379
N64~11433

GUSAROV, B. G.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE

SUPPORT SYSTEM N64-23742

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752

GUSELNIKOV, V. I.
MECHANISM OF NERVOUS RESPONSES IN LIZARDS
N64-31465

GUSELNIKOVA, K. G.
MECHANISM OF NERVOUS RESPONSES IN LIZARDS

N64-31465

GUSEVA, L. A.

EFFECT OF BODY TEMPERATURE IN BRAIN AND MUSCLE ON
ADENOSINE TRIPHOSPHORIC ACID AND CREATINE
PHOSPHATE CONTENT

N64-12572

GUSIC, B.
BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY
MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD
A64-80954

GUSKOVA, A. K.
INDUSTRIAL SAFETY -- CARE AND OBSERVATION OF
PERSONS WORKING WITH RADIATION SOURCES, AND
ANALYSIS OF MEDICAL OBSERVATIONS

N64-15677

CLASSIFICATION OF RADIATION SICKNESS

N64-20948

GUSSOW, Z.

SENSORY DEPRIVATION STUDY - REPORT ON KAYAK-ANGST
AMONG ESKIMO OF WEST GREENLAND
A64-80215

GUTMAN, A. M.
TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL
ANALYZER OF MAN
JPRS-23946
N64-17806

GUTSTEIN, W. H.
BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL

WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS AIAA PAPER 64-217 A64-18853

GUY. M. M.

PROJECT APOLLO SPACE SUIT AND LIFE SUPPORT EQUIPMENT DESIGN ANALYSIS WITH EMPHASIS ON THERMAL INPUT AND SOURCES A64-18257

MERCURY PRESSURE SUIT AND SPACE SUIT DESIGN FOR PROJECT GEMINI, NOTING TEMPERATURE CONTROL BY VENTILATION DISTRIBUTION SYSTEM

A64-18995

GUYTON, A. C. EVIDENCE FOR TISSUE DXYGEN DEMAND AS MAJOR FACTOR IN AUTOREGULATION IN DOG A64-81238

GUZEYEV, 0. YE.
PRESSURE TRANSDUCER FOR OPTICAL RECORDING OSCILLOGRAPH N64-31105

GVOZDIKOVA, Z. M.
SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC N64-32782

ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION

A64-80016

GYURDZHIAN, A. A.
RADIOBIOLOGICAL PROBLEMS DUE TO COSMIC RADIATION
EXPOSURE DURING SPACE FLIGHT - BIBLIOGRAPHY

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 N64-11670

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
AFTER SPACE FLIGHT
N64-11673

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693

HARNESS FOR AFFIXING SENSORS TO DOGS FOR REGISTRATION OF PHYSIOLOGICAL PHENOMENA DURING SPACE FLIGHT

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696

PLEXIGLAS CONTAINERS FOR BIOLOGICAL MATERIAL IN SPACECRAFT ENVIRONMENT DURING FLIGHT

N64-11702

CONTAINER WITH FEEDING DEVICE FOR ANIMAL STUDY
DURING SPACE FLIGHT OF MICE N64-1 N64-11703

PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED TO GRAVITATIONAL ACCELERATION

FUNCTIONAL CONDITION OF VESTIBULAR APPARATUS OF WHITE RAT UNDER DAILY ROTATIONAL ACCELERATION STRESS NASA-TT-F-9025 N64-27138

OXYGEN DISSOCIATION CURVE DETERMINATION — POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION N64-17938

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N. N64-17946

HABER, R. N. CODING STRATEGY EFFECT ON PERCEPTUAL MEMORY A64-81199 HACKEL, D. B. CORONARY CIRCULATION AND HEART METABOLISM IN MAN EXPOSED TO DRY HOT ENVIRONMENT A64-80465

TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF FLUCTUATING CARBON MONOXIDE EXPOSURES FROM MULTIPLE SOURCES

HADDY, F. J. PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS A64~81002

BLOOD FLOW RATE, VENOUS PRESSURE, AND OXYGEN EFFECT ON BLOOD FLOW RESISTANCE IN DOG FORELIMB A64-81237

HAERER, H. F. TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-80893

HAGELSTEN, AIR TRANSPORT OF SICK AND WOUNDED - MEDICAL CONSIDERATIONS A64-80304

HAGEN, C. A.
SURVIVAL OF EARTH MICRODRGANISMS IN SIMULATED MARS **ENVIRONMENT** NASA-CR-52841

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL **ENVIRONMENT** NASA-CR-53106 N64-16745

ANAEROBIC BACTERIA SURVIVAL IN EXTRATERRESTRIAL **ENVIRONMENTS** NASA-CR-50934 N64-22758

BACTERIAL SURVIVAL IN SIMULATED MARTIAN **ENVIRONMENT** NASA-CR-50516 N64-22759

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE

N64-25115

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN **ENVIRONMENT**

HYPEROPIA, MYOPIA, AND ASTIGMATISM - DIAGNOSIS AND EVALUATION OF PHYSICAL FITNESS FOR GCCUPATIONAL OPERATION OF VEHICLES A64-81296

ELECTRON MICROSCOPIC STUDY OF EARLY CHANGES IN NEURONS DUE TO HYPOXIDOSIS AND ULTRASTRUCTURAL ASPECTS OF NEURONAL NECROSIS IN CEREBRAL CORTEX N64-14592

HAHN. R.

NY NO VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT, AND CAT AS AFFECTED BY CHLORPROMAZINE

HAIDER. M.

COMPUTER-AVERAGED POTENTIALS FOR CORTICAL EVOKED RESPONSES TO STIMULI DURING VISUAL VIGILANCE TASKS

CORTICAL EVOKED POTENTIALS AND ATTENTIVENESS AS RELATED TO SIGNAL DETECTION IN VIGILANCE TASK A64-80619

HAINES, D. B. MANPOWER & PERSONNEL FOR ADVANCED WEAPON SYSTEMS - ESTIMATION OF REQUIREMENTS AMRL-TDR-63-110 N64-18599

HAJOS, A.
COLOR DISCRIMINATION WITHOUT CHROMATIC VISION
N64-: N64-22241

COLOR DISCRIMINATION WITHOUT CHROMATIC VISION USING PRISM GLASS REPT.-2 N64-28581

- HAKE, H. W. DISCRIMINANT FUNCTION AS MODEL FOR PERCEPTION A64-81299
- HALABY, N. E.
 ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
 AIRCRAFT FLIGHT SAFETY N64-22042
- HALBERG, F.
 BIOLOGICAL RHYTHMS DEFINED TO DETERMINE ALTERATION
 DUE TO EXTRATERRESTRIAL SPACE ENVIRONMENT
 A64-24399

PHYSIOLOGIC RHYTHM PERTINENCE TO HUMAN ENGINEERING FOR LIFE IN AEROSPACE WITH RESPECT TO ASTRONAUT SELECTION AND PERFORMANCE A64-24621

PHYSIOLOGICAL RHYTHMS AND BIOASTRONAUTICS - A REVIEW A64-80483

CIRCADIAN RHYTHMS AS RELATED TO HUMAN ENGINEERING AND ASTRONAUT SELECTION AND PERFORMANCE DURING SPACE FLIGHT A64-80667

PERIODICITY ANALYSIS FOR BIOMETEOROLOGY RESEARCH N64-32350

CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION N64-33452

HALE, H. B.
SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC
EFFECTS OF SHORT DURATION HYPEROXIA
A64-19136

NIGHT AND DAY WEAPON DELIVERY ACCURACY BY PILOTS OF HIGH PERFORMANCE AIRCRAFT AS RELATED TO SYMPATHETIC NERVES, ADRENAL ACTIVITY, MINERAL METABOLISM, AND ACIO-BASE BALANCE

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA SAM-TDR-64-6 N64-18917

464-80823

- MALEY, J. L., JR.
 AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH
 INJURIES TO PASSENGERS
 SAE PAPER 851A
 A64-20759
- HALL, A. L.
 FIRE HAZARD IN LOW PRESSURE DXYGEN ATMOSPHERE
 REPT.-4
 N64-22705

INCIDENCE OF PHYSIOLOGICAL SYMPTOMS IN HEALTHY
MEN AFTER EXPOSURE TO RAPID DECOMPRESSION ALTITUDE SIMULATION TESTS

N64-31

- HALL, D. J. LEARNING MACHINE - PATTERN RECOGNITION MODEL TN-1 N64-25296
- HALL, E. J.
 BIOLOGICAL MATERIALS AFFECTED BY MAGNETIC FIELDS
 OF DIFFERENT STRENGTHS FOR VARYING TIME PERIODS
 A64-8111
- HALL, F. G.
 HEMOGLOBIN AT HIGH ALTITUDE AS RELATED TO AGE
 A64-80045
- HALL, F. S.
 BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING SYSTEM
 SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE
 SCIENCES, QUALITY CONTROL, AND RELIABILITY
 RH-3398B
 N64-18490

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING RH-3398-E N64-27351

- HALL, J. F., JR.
 INSENSIBLE WEIGHT LOSS OF CLOTHED RESTING SUBJECTS
 IN COMFORT ZONE TEMPERATURES
 A64-80118
- HALL, J. L., II COMMUNICATION BIOPHYSICS - HEARING

BINAURAL INTERACTION IN ACCESSORY SUPERIOR OLIVARY NUCLEUS OF CAT - ELECTROPHYSIOLOGICAL STUDY OF SINGLE NEURONS MIT-TR-416 N64-18062

- HALL, L. B.
 PREVENTION OF BIOLOGICAL CONTAMINATION ON
 EXTRATERRESTRIAL BODIES
 A64-18827
- HALL. P.

 QUANTITATIVE INTERACTIONS OF INCREASED OXYGEN AND
 CARBON DIOXIDE TENSIONS UPON RESPIRATION IN MAN

 A64-80453
- HALL, R. J.

 HEAD MOUNTED ELECTROCULAR DISPLAY SYSTEM COMPARED

 MITH CONVENTIONAL CONSOLE DISPLAY FOR TARGET

 DETECTION

 A64-2483

VISUAL AFTERIMAGE PROLONGED BY POST-STIMULATION CONDITION IN VISUAL FIELD A64-81076

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287 N64-13846

HALL, T. J.
HUMAN GROUP PERFORMANCE DURING CONFINEMENT
ER-6024 N64-15747

EFFECT OF SLEEP DEPRIVATION AND DEMANDING WORK-REST SCHEDULE ON CREW PERFORMANCE AMRL-TDR-64-63 N64-31827

- HALL, W. C.

 HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL
 RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND
 NEUTRON IRRADIATION IN GOATS
 RTD-TDR-63-3077
 N64-13827
- HALLE, M.
 ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF
 PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES
 N64-17882
- HALLMAN, S. I.

 AUTONOMIC LEVELS AND LABILITY PERFORMANCE TIME
 ON PERCEPTUAL AND SENSORIMOTOR TASKS

 A64-8058
- HALPERN, L.
 TOXIC EFFECTS OF ELEVATED OXYGEN LEVELS ON PLANTS,
 INVERTEBRATES AND HUMAN CELLS A64-10258
- HALPERN, M. H.

 EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA
 PYRENGIDOSA

 A64-80866
- HALPERN, P. H. PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS A64-80546
- HALSTEAD, J. R.
 CARBOXYHEMOGLOBIN IN DECOMPOSED BODIES OF ANIMALS
 AMRL-TDR-63-69 N64-22290
- HAMBURGER, C.
 CHANGES IN HUMAN 17-KETOSTEROID URINE EXCRETION
 N64-33452
- HAMDI, E. A.
 CARBON TETRACHLORIDE TOXIC EFFECTS ON LIVER
 STRUCTURE AND ENZYME ACTIVITY A64-80074
- HAMILTON, C. L.
 WATER AND FOOD INTAKE INFLUENCE ON MONKEY /MACACA
 MULATTA/ DURING EXPOSURE TO COLD AND HEAT STRESS
 A64-80551
- HAMILTON, C. R.
 INTERMANUAL TRANSFER OF ADAPTATION TO PRISMS IN
 HUMAN
 A64-81302
- HAMMACK, J. T.

 SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

 A64-80316

HAMMAN, D. J. BENEFICIAL USES OF RADIATION EFFECTS - POWER, ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND TRACER TECHNOLOGY REIC MEMO-25 N64-24967

HAMMEL, H. T.
TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY A64-80113

ADAPTATION OF PRIMITIVE MAN TO COLD STRESS IN VARIOUS GEOGRAPHICAL LOCATIONS A64-80425

REDUCED SET POINT TEMPERATURE IN EXERCISING DOG AMRL-TDR-63-93 N64-12219

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT AAL-TDR-62-44 N64-13645

HAMMER, C.

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC DISPLAYS - HUMAN PERCEPTION AD-601973

N64-30646

WEIGHTLESSNESS WITH RESPECT TO ORIENTATION. PSYCHOMOTOR PERFORMANCE AND PHYSIOLOGICAL FUNCTION

HAMMERTON, M. TRANSFER OF TRAINING FROM SIMULATED TO REAL CONTROL SITUATION A6 A64-12933

HAMPTON, I. F. G. MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED BODY TEMPERATURE A64-B0272

SWEATING AND HEAT ACCLIMATIZATION RELATED TO TEMPERATURE REGULATION DURING REST AND EXERCISE A64-80882

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

HANCE, H. E. ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND AMDEBA EXPOSED TO ATMOSPHERIC DXYGEN A64-20699

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMOEBA, PELOMYXA CAROLINENSIS A64. A64-80505

HANFF. G. HUMAN FACTORS FOR EXTRAVEHICULAR SPACE ENVIRONMENT - HUMAN ADAPTIVE CAPACITY AND NECESSARY EQUIPMENT A64-80816

HANLON, C. PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG DURING SURFACE HEATING A64-80874 A64-80874

AUTORADIOGRAPHIC AND HISTOLOGIC STUDY OF SPLEEN WHITE PULP GERMINAL CENTERS OF NORMAL AND ANTIGENICALLY STIMULATED ANIMALS ORNL-3595 N64-20636

HANNAN, P. J. FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NRI -5954 N64-10551

HANNAN, R. E.
PREPARATION OF PROGRAMMED INSTRUCTION FOR
AUTOMATED TRAINING IN DECISION MAKING - PERT ESD-TDR-63-608 N64-12319

HANSEN, C. L., JR.
RADIATION RECOVERY IN MAN - EVALUATION OF EXPERIMENTAL AND CLINICAL DATA A64-80336

HANSEN. J. T PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA BIOSATELLITE PROGRAM A64-80261

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE, MACACA NEMESTRINA, DURING SPACE FLIGHT

A64-80544

HANSON, J. S. CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRADED TREADMILL EXERCISE A64-80516

ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY

A64-80731

HANSON, P. R.
SURGERY FOR MASSIVE UPPER GASTROINTESTINAL
HEMORRHAGE IN FLYING PERSONNEL A A64-80869

HANSON, R. G.
HAZARD TO PERSONNEL MEARING TORN PROTECTIVE
CLOTHING WHILE EXPOSED TO VAPOROUS ROCKET PROPELL ANTS AD-431540 N64-21673

HAO-TU, L.
IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIOELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

HARADA, K. ASYMMETRIC SYNTHESIS OF ALPHA-AMINO ACIDS BY STRECKER SYNTHESIS, INCLUDING PRODUCTION OF OPTICALLY ACTIVE L-ANALINE A64-13306

AMINO ACID COMPOSITIONS OF PROTEINOIDS N64-12944

HARANTOVA, Z.

ELECTRIC PROPERTIES OF TISSUES N64-17539

HARBERT, F. DIAGNOSTIC USE OF HEARING TESTS

A64-80004

HARBOUR, H.

PORTABLE SOLAR STILL FOR RECOVERY OF POTABLE WATER
BY AIRCREM SURVIVORS AT SEA

A64-81030

HARCUM, E. R.
INTERACTIVE EFFECTS WITHIN VISUAL PATTERN ON
DISCRIMINABILITY OF INDIVIDUAL ELEMENT A64-81198

HARDEN, R. M. TOTAL FASTING EFFECT ON IDDINE METABOLISM IN MAN

HARDESTY, D. ENHANCEMENT OF WORK PERFORMANCE BY ORALLY PRESENTED RESULTS TR-18 N64-27096

HARDINGE, M. G.
FORCED EXERCISE OF MOUSE AS RELATED TO BODY
TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

A64-80729

HARDY, E. P., JR. FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY HASL-132

FALLOUT - RADIONUCLIDE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE HASI-135

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, WATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142 N64-13329

HARDY, J. D. PHYSIOLOGICAL LIMITATIONS OF ASTRONAUT AND HIS TEMPERATURE REGULATORY CAPACITY IN THERMAL **ENVIRONMENT**

IN FLIGHT ACCELERATION CONSIDERING APPLIED AND INERTIAL FORCES, HUMAN TOLERANCE, VIBRATION AND

IMPACT A64-24617

WEIGHTLESSNESS AND SUBGRAVITY EFFECT ON
PHYSIOLOGICAL SYSTEMS PARTICULARLY MUSCULOSKELETAL, CARDIOVASCULAR AND EQUILIBRIUM SENSES
A64-24618

TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY

A64-80113

WEIGHTLESSNESS AND ITS EFFECT ON METABOLISM, CARDIOVASCULAR SYSTEM, MUSCLE, BONE, OTOLITH, AND SEMICIRCULAR CANAL A64-80645

ACCELERATION TOLERANCE AND PERFORMANCE AS RELATED TO SIMULATOR TRAINING OF ASTRONAUT

A64-80666

HARGREAVES, J. J.

RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED
ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR
ABSENCE OF NITROGEN
A64-22054

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, DXYGEN RICH ATMOSPHERE A64-80323

DXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, DXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TDR-63-59 N64-12855

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED

OXYGEN TENSION
SAM-TDR-63-64
N64-16640

HARKER, G. S.
INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND
PERCEIVED ABSOLUTE DISTANCE
A64-80139

PERCEIVED ABSOLUTE DISTANCE

HARKER, J. E.
PHYSIOLOGY OF DIURNAL RHYTHMS

A64-80943

HARLEY, J. H.
RADIOACTIVITY AND RADIOCHEMICAL ANALYSIS - HEALTH
AND SAFETY LABORATORY MANUAL
NYO-4700, REV.
N64-15997

HARPER, C. R.
ALCOHOL IN PILOTS INVOLVED IN FATAL GENERAL
ANTATION ACCIDENTS
A64-19138

RELATIONSHIP OF FREQUENCY OF PATHOLOGICAL DEFECTS
OF SAMPLE PILOTS IN AIRCRAFT ACCIDENTS TO SAME
DEFECTS IN TOTAL PILOT POPULATION

PHYSICAL DEFECTS OF CIVILIAN PILOTS RELATED TO AIRCRAFT ACCIDENTS A64-80923

HARRER, G.
POLYGRAPHIC INVESTIGATION OF EMOTIONAL INFLUENCE
ON PHYSIOLOGICAL INDICES AND AFTER CENTRALLY
EFFECTIVE DRUG IN MAN
A64-80654

HARRER, H.

POLYGRAPHIC INVESTIGATION OF EMOTIONAL INFLUENCE
ON PHYSIOLOGICAL INDICES AND AFTER CENTRALLY
EFFECTIVE DRUG IN MAN

A64-80654

HARRINGTON, T. J.

PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT
LOOPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL
SUIT

A64-27606

HARRIS, C. S.
HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA
SLOW ROTATING ROOM A64-81324

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE REVOLUTIONS PER MINUTE NASA-CR-55622 N64-15349

EVALUATION OF POSITIONAL ALCOHOL NYSTAGMUS AS

INDICATOR OF OTOLITH FUNCTION
NASA-CR-55619

N64-15350

N64-17958

VESTIBULAR DISORIENTATION DUE TO CORIOLIS
ACCELERATION
NASA-CR-55784
N64-16331

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

HARRIS, E. A.

HEART RATE AND DXYGEN CONSUMPTION OF HEALTHY
HUMANS DIFFERING IN AGE AND SEX DURING TRANSITION
FROM REST TO EXERCISE IN RELATION TO EXERCISE
TOLERANCE

A64-81007

VENTILATORY RESPONSE TO EXCESS CARBON DIOXIDE AND HYPOXIA AND RELATION TO DRUG EFFECT
A64-81229

HARRIS, E. S.

ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS
IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT
A64-13519

HARRIS, J. L.
OBJECT CLASSIFICATION DISCUSSED AS PRACTICAL TOOL
FOR VISIBILITY ENGINEERING
A64-17625

HARRIS, J. R.
COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION
NAVTRADEVCEN-789-2
N64-26892

HARRIS, L.
URINE EVACUATING SYSTEM FOR USE IN FULLY
PRESSURIZED SUITS
SAM-TDR-64-13

HARRIS, P.
RESPIRATORY FREQUENCY AND COMPLIANCE AT DIFFERENT
LUNG VOLUMES A64-80108

HARRISON, G. W., JR.

RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE
AND AMINOETHYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031

HARRISON, M. T.
TOTAL FASTING EFFECT ON IODINE METABOLISM IN MAN
A64-80607

HARRISON, R.
VISUAL DEPRIVATION EFFECTS ON IMAGERY
EXPERIENCED BY DEAF SUBJECTS
A64-80799

HART, E.
MODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR
SPACE FOR FLIGHT TRAINING SIMULATION

A64-81220

OUTER SPACE ENVIRONMENT EFFECT ON SIMULATION OF SPACE VEHICLES DURING TRAINING A64-81222

HART, J. S.
SEASONAL AND GEOGRAPHICAL CLIMATE VARIATIONS PHYSIOLOGICAL AND STRUCTURAL MODIFICATIONS
IN BIRD AND MAMMAL
A64-80421

HARTMAN, A. M.

RELATIONSHIP BETWEEN APPARENT SIZE AND DISTANCE
STUDIED UNDER CONDITION OF REDUCTION OF CUES

A64-81298

HARTMAN, B. O.
HIGH ALITUDE EFFECTS ON ASTRONAUTS, COVERING
PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK
COMMITMENT STRESS
A64-12978

TWO WEEK BED REST EFFECT UPON CARDIOVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL REACTIONS IN MAN A64-27597

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST A64-80564

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS
SAM-TDR-62-110 N64-10558

CREW TRAINING AND HUMAN PERFORMANCE ON SPACE N64-30718

HARTMANN, H.

INTRAVASCULAR AIR BUBBLE FORMATION AFTER DXYGEN
DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC
SALT SOLUTIONS IN PLASMA

N64-150 N64-15040

DXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY

HAZARDS OF MANNED SPACE FLIGHT DUE TO TECHNICAL FAILURE OR MICROMETEOR IMPACT N64-17550

ETIOLOGY OF DECOMPRESSION SICKNESS - GAS-BUBBLE FORMATION IN VASCULAR SYSTEM AND TISSUES DVL-351 N64-26665

HARMOOD, J. H., III CONTROL FEMALE ALBIND RATS POISONED BY NIOBIUM INJECTION TO MEASURE RENAL FUNCTION BY DILUTION UR-646 N64-19865

HASBROOK, A. H.
STRUCTURAL-MEDICAL ANALYSIS OF CIVIL AIRCRAFT
ACCIDENT INJURIES AND MEANS OF INCREASING SAFETY
A64-808 A64-80851

HASHIMOTO, S.
SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE FILTERING PROCESSES OF TRACHEAL OUTER WALL E-T-J-63-6

HASLERUD, G. M.
EFFECTS OF COMPETITION BETWEEN PERIPHERY AND CENTER OF ATTENTION IN AUDITORY AND VISUAL TASKS

HASSIALIS, M. D. SAFETY, HAZARDS & ACCIDENTS NASA-CR-56623

N64-24119

A64-80820

TINGS, B. J. RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE A64-80109

HATCH, H. G., JR.
CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447

HAUPT, G. J.
EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

HAUTY, G. T. PSYCHOPHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS VIGILANCE AND SENSORY DEPRIVATION SIMULATED BY IMMERSION EXPERIMENTS A64-24400

PHYSIOLOGICAL AND PSYCHOLOGICAL EFFECTS OF ISOLATION AND CONFINEMENT ON HUMAN RELIABILITY A64-24977

PROBLEMS OF WEIGHTLESSNESS, VIGILANCE, AND SENSORY DEPRIVATION IN MANNED SPACE FLIGHT A64-80484

TURNOVER RATE AND OXIDATION OF DIFFERENT FREE FATTY ACIDS IN MAN DURING EXERCISE A64-80698

HANKES, G. R.
CUTANEOUS COMMUNICATION SYSTEM FOR TRANSMITTING
LINGUISTIC INFORMATION
A64-800 A64-80019

VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION A64-80618

HUMAN GROUP PERFORMANCE DURING CONFINEMENT ER-6024 N64-15747 HANKINS, J. N.
X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE-TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF N64-22863

HAWKINS, R. R.
HEARING LOSS DETERMINED BY MODIFIED DOERFLER—
STEWART TEST
A64-A64-80062

HAWRYLEWICZ, E. J.
EFFECT OF IMPACT VELOCITY ON LDH ISOENZYMES AND
RELATED TISSUE DAMAGE IN CHIMPANZEE

A64-80847

BACTERIAL SURVIVAL IN SIMULATED MARTIAN **ENVIRONMENT**

NASA-CR-50516

N64-22759

SURVIVAL OF MICROORGANISMS IN SIMULATED ENVIRONMENT OF MARS SURFACE

N64-25115

N64-24116

SURVIVAL OF BACILLUS SUBTILIS IN SIMULATED MARTIAN ENVIRONMENT N64-29559

HAY, HUMAN ADAPTION TO LONGTERM EXPOSURE TO OPTICAL DISTORTION PRODUCED BY WEDGE PRISM

HAY, M. ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR REACTION WITH CERTAIN OTHER HEMOGLOBINS N64-25491

HAYES, T. L.

X-RAY FLUORESCENCE STUDY OF OSMIUM TETROXIDE—
TRIGLYCERIDE INTERACTION AS FUNCTION OF DEGREE OF
N64-2286 N64-22863

HAYMAKER, W. LIFE SUPPORT IN SPACE ENVIRONMENT NASA-TM-X-51744 N64-22784

HAYNES. R. H. INACTIVATION AND RECOVERY OF MICROORGANISMS AFTER TREATMENT WITH ULTRAVIOLET LIGHT, X-RAYS, OR NITROGEN MUSTARD

PHARMACOLOGY & TOXICOLOGY OF DRUGS IN CLOSED ECOLOGICAL SYSTEMS N64-24617

HAYWARD, M. E. DRAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES

HAYMOOD, F. F.
SUMMARY OF HEALTH PHYSICS RESEARCH REACTOR WORK & COBALT 60 SOURCE OPERATION IN BREN PROJECT CEX-6203 N64-10408

DOSAGE LEVELS AND BIOLOGICAL EFFECT OF RADIATION HAZARDS FOR MANNED SPACE FLIGHT A64-19133

HAZZARD, G. F.
FUNGUS GROWTHS IN AVIATION FUEL SYSTEMS REPT -- 252 N64-18148

HEADLEY, R. N.
HUMAN TOLERANCE AND LIMITATIONS TO ACCELERATION N64-13455

HEALER, J. BIBLIOGRAPHY OF BIOSENSORS NASA-CR-56347

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION NASA-CR-76 N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NASA-CR-58560 N64-29546

- HEBBARD, F. M.
 VISUAL EXAMINATIONS FOR CIVILIAN AIR PERSONNEL
 A64-80460
- HEDRICK, H. G.
 MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR
 CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS
 ASD-TDR-63-242
 N64-19892
- HEGSTED, D. M.
 WATER AND FOOD SUPPLY TREATMENT OF WASTE AND
 NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT
 A64-80134
- HEIM, A. H.

 RESULTS FROM FIELD TESTS OF GULLIVER AND DIOGENES
 EXPERIMENTS FOR DETECTING LIFE IN SEVERE
 ENVIRONMENTS
 A64-18680

EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-24950

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE
DETECTION AND ANALYSIS
NASA-CR-55511 N64-22755

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING
EXTRATERRESTRIAL LIFE
NASA-CR-55318
N64-2275

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES,
AND RADIATION DETECTION INSTRUMENTATION FOR
EXTRATERRESTRIAL LIFE PROBE
NASA-CR-56532
N64-22793

- MEIM, T.

 METABOLIC RESPONSE TO COLD AND RELATIONSHIP
 BETWEEN BODY TEMPERATURE AND BASAL METABOLIC RATE
 OF UNDERFED RAT

 A64-80903
- HEIMBERG, M.

 CARBON TETRACHLORIDE POISONING AS RELATED TO
 TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND
 FATTY ACIDS IN RAT LIVER

 A64-80730
- HEIMLICH, A. H.

 OECOMPRESSION OF MICE IN ATMOSPHERES CONTAINING
 HELIUM OR ARGON IN PLACE OF NITROGEN TO TEST
 HYPOXIC TOLERANCE OF ANIMALS

 A64-20693

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN A64-80499

- HEINICH, L.

 ELECTROMECHANICAL METHOD FOR CONTINUOUS
 REGISTRATION OF ACTION POTENTIALS AND FREQUENCY
 SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER
 BIOLOGICAL VARIABLES

 A64-80674
- HEINTZELMAN, J. T.

 ABDOMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING ORGANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION

 A64-B0824
- HEINZ, J. M.
 ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES
 N64-17882
- HEISKELL, R. H.
 SIMULATED AND HUMAN OCCUPANCY TESTS OF 100 MAN
 SHELTER ATMOSPHERE AND TEMPERATURE STUDIES
 USNRDL-TR-618
 N64-12254
- MELD, R.

 DISORDER IN THE MOTOR-SENSORY LOOP CAUSES
 INSTABILITY IN HUMAN PLASTIC SYSTEMS OF
 COORDINATION

 A64-10090

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

TWO ADAPTATION PROCESSES TO ACTIVE AND PASSIVE EXPOSURE TO OPTICALLY ROTATED VISUAL FIELD
A64-80933

- MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES
 OF HUMAN BODY DUE TO ELASTICITY OF TISSUES
 A64-80939
- HELLMAN, R. P.
 LOUDNESS FUNCTION OF 1000 CPS TONE IN PRESENCE OF
 MASKING NOISE
 A64-81166
- HELLON, R. F.
 RADIAL VENTILATED GARMENT FOR USE IN TEMPERATURES
 UP TO 200 DEG CENTIGRADE A64-80875
- HELMER, J. E.
 PHYSIOLOGICAL RESPONSES ASSOCIATED WITH TIME
 ESTIMATION IN HUMAN OPERANT SITUATION
 A64-80801
- HELMS, D. B.
 VESTIBULAR RESPONSE OF FOUR CATS EXPOSED TO
 HARMONIC STIMULATION OF THE HORIZONTAL
 SEMICIRCULAR CANAL
 A64-10257
- HELSON, H.
 HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF
 MASS ON ROD WITH EXTENDED ARM AND HAND
 TR-20
 N64-27098
- HELVEY, T. C.
 DISPOSAL OF DEAD ASTRONAUT IN SPACE
 A64-80197

FUTURISTIC CONCEPT OF EXTRAORAL FEEDING FOR LONG RANGE SPACE FLIGHTS A64-80846

- MELVEY, W. M.

 SPACECRAFT AND SATELLITE PROGRAMS REVIEWING RECENT
 MAJOR FLIGHTS AND EMPHASIZING ADVANCES IN LIFESUPPORT SYSTEMS

 A64-10151
 - BIOMEDICAL TELEMETRY REVIEWED IN CONJUNCTION WITH STUDIES OF F-105 PILOTS A64-80094
 - BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH
 ORBITING STATION
 NASA-CR-56021
 N64-25950
- HEMPSTOCK, T. I.
 QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT
 FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF
 TONE STIMULUS DURATION
 A64-2663
- HENDEL, F. J.

 OXYGEN MANAGEMENT, TOXICITY AND ENVIRONMENT
 SELECTION FOR MANNED SPACECRAFT

 A64-21182

HENDLER, E.
RAPID DECOMPRESSION HAZARDS AFTER PROLONGED
EXPOSURE TO 50 PER CENT OXYGEN-50 PER CENT
NITROGEN ATMOSPHERE
A64-10259

PHYSICAL AND PHYSIOLOGICAL FACTORS OF TEMPERATURE EFFECT ON HUMAN PERFORMANCE A64-12981

FUTURE TRENDS IN SPACE ENVIRONMENT RESEARCH, EXAMINING METHODS FOR STUDYING HUMAN PERFORMANCE AND TOLERANCE

ASSESSING HUMAN RESPONSE TO IMPACT ACCELERATION, CONSIDERING PROTECTION AGAINST MECHANICAL EFFECTS A64-23207

PHYSIOLOGICAL EFFECTS AND CONSTITUENTS OF GASEOUS ENVIRONMENT IN SPACE TRAVEL A64-24615

PHYSIOLOGICAL STATE OF MAN DURING SPACE FLIGHT AS RELATED TO GASEOUS ENVIRONMENT AND PRESSURE LEVELS

A64-80643

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR DXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

RESPIRATORY REQUIREMENTS FOR GAS MIXTURES IN MANNED SPACE CAPSULES NAEC-ACEL-518 N64-17659

HENN, R. H. E. FAT EMBOLISM DURING DECOMPRESSION

N64-12755

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION N64-12756

HENNESSY, D. J. AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL METEORITE PARENT BODY AND SUSTENANCE OF LIFE A64-80451

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS -EVOLUTION OF LIFE N64-19 N64-19584

VESTIBULAR REFLEXES - HABITUATION IN DARKNESS OF CALORIC NYSTAGNUS, LATEROTORSION, AND VERTIGO IN 464-80340

HENRY, J. P.

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL
OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE AND
VENOUS PRESSURE IN THE FOREHEAD

A64-2069

PHYSIOLOGICAL EFFECTS OF SPACEFLIGHT INCLUDING LABVRINTHINE DISTURBANCE, SENSORY DEPRIVATION, CIRCULATORY IMPAIRMENT AND MUSCLE AND BONE ATROPHY

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS IN SPACE FLIGHT ON ANIMALS AND MEN - A REVIEW

A64-80488

A64-20694

NEGATIVE ACCELERATION IN RELATION TO ARTERIAL OXYGEN SATURATION, SUBENDOCARDIAL HEMORRHAGE, AND VENDUS PRESSURE IN THE FOREHEAD

A64-80500

THORACIC AND ABDOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, OBESE AND NORMAL SUBJECTS A64-R0997

OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES

PE-92-AZAM N64-12915

CLIMATIC CHAMBERS FOR ADAPTATION RESEARCH A64-80422

MINIMAL WATER REQUIREMENTS UNDER CONDITIONS OF HEAT AND PHYSICAL EXERCISE IN MAN

A64-80549

HENSEL. H. NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-8043

HERBERT, M. J.
PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL REPT.-597 N64-16089

HERLOCHER, J. E.
CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED OXYGEN PARTIAL PRESSURE A64-22053

RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR ABSENCE OF NITROGEN A64-22054

ERYTHROPOIESIS RESPONSE TO EXPOSURE OF ATMOSPHERE WITH INCREASED OXYGEN PARTIAL PRESSURE A64-22055

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, OXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

A64-80624

INCREASED OXYGEN PARTIAL PRESSURE EFFECT ON HEMATOPOIESIS A64-80625

INCREASED DXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TDR-63-59 N64-12855

HERMAN, L. M. OPERATOR DECISION PERFORMANCE COMPARED FOR PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF OBJECT LOCATION A64-2: A64-24128

HERMANN, R. CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND DXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN

HERMELIN, B. M.
REACTION TIME IN RELATION TO BLOCKING OF ALPHA A64-80356

HERNBERG, S.
SERUM CHOLESTEROL AND TOBACCO SMOKING AS RELATED
TO CAPACITY FOR PHYSICAL WORK OF MEN OF
DIFFERENT AGES
A64-810 A64-8106B

HERON, W.
THALAMUS CONTROL OF VOLUNTARY MOVEMENT IN RAT A64-81179

HERRICK, R. M.
PLOTTING AND ANALYZING CUMULATIVE RESPONSE CURVES
IN OPERANT CONDITIONING STUDIES NADC-ML-6406

ANIMAL STUDY OF CONDITIONED RESPONSE - LEVER-PRESSING BEHAVIOR OF RATS IN FIXED RATIO AND IN EXTINCTION NADC-ML-6407 N64-31665

HERRMANN, J. PRUGRESS OF MAN IN SPACE AND EXTRATERRESTRIAL LIFE - A POPULAR REVIEW A66-A64-B023B

HERS. H. G. HUMAN BIOCHEMICAL GENETICS JPRS-26577

N64-32163

EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-NUCLEAR ATTACK OU-107 N64-20811

HESS, S. L.
BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO
ACID AND PROTEINOID STUDIES NASA-CR-50483

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NASA-CR-56526 N64-227 N64-22787

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL ENVIRONMENTS NASA-CR-56527 N64-22788

HESSER, C. M.
TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT AND MODERATE EXERCISE IN MAN A64-80982

HEUCKEROTH, O PERSONALITY VARIABLES AS DETERMINED BY MMPI RELATED TO RESPONSE TO ELECTRICAL VESTIBULAR STIMULATION A64-80582

HEUSINGER, H. BY ALGAL CULTURES IN CLOSED ECOLOGICAL SYSTEM HEWES. D. E. SIMULATION OF LUNAR GRAVITY, FOR PRELIMINARY TESTING OF MANNED LUNAR MISSION, SPACECRAFT AND A64-15204 INSTRUMENTATION

GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT N64-16916 NASA-TN-D-2176

HEYMAN, A. VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE

A64-80898

HIATT, E. P.
PROLONGED EXPOSURE OF YOUNG RATS TO AN OXYGEN A64-80169 ATMOSPHERE AT REDUCED PRESSURE

RETINAL VASCULAR RESPONSE TO BREATHING INCREASED CARBON DIOXIDE AND OXYGEN CONCENTRATIONS

HICKS, S. A. HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION. EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES

HIESTAND. W. A. DECOMPRESSION OF MICE IN ATMOSPHERES CONTAINING
HELIUM OR ARGON IN PLACE OF NITROGEN TO TEST
HYPOXIC TOLERANCE OF ANIMALS
A64-20 464-20693

DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN 464-80499

HIETBRINK, B. E. IONIZING RADIATION EFFECT ON THIOPHOSPHATE OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY N64-13503

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES N64-13504

X-RAY IRRADIATION EFFECT ON DEVELOPMENT OF ENZYME ACTIVITY IN LIVER OF YOUNG RATS N64-25340

HIGGINS, E. A. EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE N64-17236 CARI-63-23

HIGHLY, F. M.
RAPID DECOMPRESSION HAZARDS AFTER PROLONGED EXPOSURE TO 50 PER CENT OXYGEN-50 PER CENT NITROGEN ATMOSPHERE

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING DECOMPRESSION AND PROLONGED LOW PRESSURE

HIGHMAN. B. BLOOD, TISSUE, ENZYME, AND ISDENZYME CHANGES OF RAT EXERCISING AT GROUND LEVEL AND AT 28,000 FEET A64-81321

OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM A64-80241

HIKI, S.
VOCAL SOUND PITCH VARIATIONS OBSERVED FROM VIBRATIONS IN TRACHEAL OUTER WALL N64-15374 E-T-J-63-5

REACTION TIME DURING RESPIRATORY CYCLE

NERVOUS SYSTEM INVOLVEMENT IN ADAPTATION TO ENVIRONMENTAL STIMULI A64-80416

MUSCULAR SYSTEM FUNCTION IN ADAPTATION TO VARIOUS ENVIRONMENTS OR CIRCUMSTANCES A64-8043 A64-80438 HILDES, J. A.
THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE COLD EXPOSURE AT NIGHT AAL-TDR-62-44 N64-13645

HILGEMAN, J. B.
FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING AMRL-TDR-63-78

HILGENDORF, J.

HEART RATE BEFORE, DURING AND AFTER STRENUOUS
PHYSICAL EXERCISE IN FEMALE MEASURED WITH

A64-464-80992 TELEMETRY

HILGENDORF, R. L.
HUMAN CAPABILITIES AND LIMITATIONS IN OPERATION, MAINTENANCE, AND CONTROL OF TACTICAL METEOROLOGICAL INSTRUMENTS N64-29751 ESD-TDR-64-437

HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR PRESSURF

INSTRUMENTATION FOR AIRCRAFT PILOT TRAINING IN SPECIAL MEAPON DELIVERY TECHNIQUES NG4-2 N64-26235

FLASHBLINDNESS PROBLEMS EVALUATED, DISCUSSING RELATION OF ADAPTATION OF EYE TO CHANGING LIGHTING CONDITIONS AND RECOVERY OF SENSITIVITY TO FUNCTIONAL LEVEL

PROTECTION AGAINST FLASHBLINDNESS AND RELATION BETWEEN LIGHT AND DARK ADAPTATION TO CHANGING A64-80925 VISUAL STIMULI

ADAPTATION OF EYE TO FLASHBLINDNESS NADC-MA-6327

N64-15052

HILL, P.
TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE N64-21803 SAM-TDR-64-5

PHYSIOLOGICAL EXPLANATION OF WATERFALL PHENOMENON AND FIGURAL AFTEREFFECTS

BIOLOGICAL EFFECTS OF WEIGHTLESSNESS, AND
ASSOCIATED PHENOMENA ON CARDIOVASCULAR SYSTEM IN
HUMAN AND ON PLANT PROCESSES
A64-811

NONACOUSTIC MEASURES OF EVENTS ASSOCIATED WITH SPEAKING INCLUDING LIP READER, SENSING ELEMENT, THROAT AND NOSE MICROPHONES A64-24 A64-24835

REGULATION OF RESPIRATION AND CIRCULATION THROUGH OXYGEN TENSION IN MIXED VENOUS BLOOD A64-80355

PHYSIOLOGICAL EFFECTS AND HUMAN TOLERANCES -INFLUENCE ON DESIGN OF LIFE SUPPORT SYSTEMS FOR SUBMARINES OR SPACECRAFT N64-240 N64-24610

HINDKI, M.
VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH A64-80245 REPEATED MOTIONS

FOUTLIBRIUM FUNCTION ANALYSIS THROUGH NEWLY DEVELOPED STRAIN-GAGE-TYPE INSTRUMENTS

A64-80253

HINSHAW, L. B.
TOXICOLOGY - EFFECTS OF ENDRIN INSECTICIDE ON DOG CARDIOVASCULAR SYSTEM CAR I-63-16

MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES FOLLOWING ACUTE ARTERIAL OCCLUSION N64-16574 CAR 1-63-22

A64-80012

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS CARI-63-26 N64-23700

HIORNS, R. W.
VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO
HOT AND HUMID CONDITIONS
A64-81191

HIRSCH, C.
BACK INJURIES IN PILOTS AFTER CATAPULT EJECTION
A64-12993

HIRSCH, J.

NUMBER OF CODE SIGNALS AFFECT LEARNING TIME FOR TACTILE COMMUNICATION

A64-16199

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MAN-MACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT AIAA PAPER 64-421 A64-20783

STARVATION AND REFEEDING EFFECTS ON LIPOGENESIS
AND FREE FATTY ACID METABOLISM IN OBESE AND
NONOBESE HUMAN A64-81047

HITCHCOCK, D. R.
APPLICATION OF STATISTICAL DECISION THEORY TO
DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS
NASA-CR-58531
N64-28939

HITCHCOCK, F. A.
PARTIAL PRESSURE CHANGES OF OXYGEN AND CARBON
DIOXIDE IN ALTITUDE ASCENTS - EFFECTS ON MAN

RELATIONSHIP OF BALLOON DEVELOPMENT AND MANNED BALLOON FLIGHT TO STUDIES OF ATMOSPHERE - EFFECT OF HIGH ALTITUDE EXPOSURE A64-80434

HITCHCOCK, L., JR.
FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR
TURBULENCE ON JET AIRLINE PILOTS
NADC-ML-6411
N64-31666

HITTMAIR, A.

RADIATION EFFECTS ON BLOOD TISSUE DURING SPACE
FLIGHT

A64-11437

HIX, V. M.

SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR
DISPLACEMENT AND HELIUM DILUTION PROCEDURES

A64-R0994

HIXSON, N. C.
INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY
ANGULAR ACCELERATION
NASA-CR-55617
N64-15352

BIDINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE
NASA-CR-55615
N64-1535

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE N64-15540

INSTRUMENT FOR VECTORCARDIOGRAPHIC AND SCALAR ELECTROCARDIOGRAPHIC MEASUREMENTS AD-412814 N64-16567

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS PHASE SHIFT
NASA-CR-53618
N64-18421

CORRELATION OF LINEAR ENERGY TRANSFER WITH
RELATIVE BIOLOGICAL EFFECTIVENESS OF SPACE
RADIATIONS
NASA-CR-58289
N64-29573

HOCHBERG, J.

STEREOSCOPIC DEPTH PERCEPTION LOSS WITH LOCAL
MONOCULAR SUPPRESSION A64-80959

HOCHBERG, S. STEREODEPTH FROM AFTERIMAGES

A64-81213

HOCK, G.

RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT
INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS
N64-13370

HODGES, J. D., JR.
DECISION-MAKING SUBFUNCTIONS FOR SIMULATED COMMAND
AND CONTROL SYSTEMS
A64-24844

HODGSON, G. M.
PORPHYRINS FOUND IN THE ORGUEIL METEORITE AND
THEIR RELATION TO THE ORIGIN OF LIFE

A64-80348

HOFF, H. E.
MEASUREMENT OF PHYSIOLOGICAL EVENTS BY IMPEDANCE
CHANGE
A64-80541

HOFFER, P. B.

PULMONARY CIRCULATION AND CARDIAC DUTPUT OF
RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE
HYPOXIA

A64-80338

HOFFMAN, E. L.

THREE-WAY FACTOR ANALYSIS OF MULTITRAIT—
MULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL
TEST RESULTS
AD-600302
N64-29659

HOFFMAN, M.
FORM RECOGNITION AT BRIEF DURATION AS FUNCTION OF
ADAPTING FIELD AND INTERVAL BETWEEN STIMULATIONS
A64-B0070

HOFFMAN, R. A.
ADAPTIVE MECHANISMS OF HIBERNATORS RESPONDING TO
LOW TEMPERATURE
A64-80424

HOFFMANN, C. R.
LATENT IMAGE FADING IN RADIATION MONITORING FILMS
DURING STORAGE BEFORE DEVELOPMENT
AECL-1872
N64-14731

HOITINK, A. W. J. H.

VITAMIN C ADMINISTRATION AND THE MECHANICAL
EFFICIENCY OF HUMAN SUBJECTS DURING PHYSICAL
EXERCISE

A64-B0248

HOKANSON, J. E.
INCREASED HEART RATE AFFECTING PSYCHOMOTOR
PERFORMANCE
A64-80138

HOKE, J. A.

ELECTRICAL ACTIVITY IN HUMAN SKELETAL MUSCLES,
SKIN AND HEART INVESTIGATED TO DETERMINE ACTION
POTENTIAL OF MUSCLE GROUPS

A64-24825

HOKFELT, B.

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF
SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL
CORTEX IN GOAT

A64-B1226

HOLDING, D. H.

PERFORMANCE OF MANUAL POSITIONING TASK AS FUNCTION

OF GUIDANCE, RESTRICTION, AND KNOWLEDGE OF RESULTS

IN TRAINING

A64-B1192

HOLDREGE, F. E., JR.
PERSONNEL SELECTION PROCEDURE AND SPACE SIMULATION
STUDY IN RELATION TO HUMAN PERFORMANCE IN SPACE
FLIGHT
A64-80457

HOLDSWORTH, L. D.
HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU
MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE
RACIAL DIFFERENCE
A64-B0764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION
OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT
COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE
A64-B100B

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO

COLD

A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU

HOLECKOVA, E.
INTERMITTENT FEEDING AND FASTING IN RATS OF
DIFFERENT AGES AS RELATED TO BODY WEIGHT DURING EXPOSURE TO COLD

HOLLADAY, A. E.
MATHEMATICAL MODEL OF LUNG FOR MECHANICAL STRESS STUDIES

CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED INDIVIDUAL

HOLLANDER, P. B.
SUBCELLULAR CHEMICAL AND PHYSICAL CHANGES IN BIOLOGICAL SYSTEMS INDUCED BY IONIZING RADIATION

HOLLEMAN, E. C.
PILOT PERFORMANCE DURING BOOST OF X-15A AIRCRAFT TO HIGH ALTITUDE NASA-TN-D-2289 N64-19002

HOLLENDER, H. A.
HIGHLY NUTRITIOUS FOOD DEVELOPED FOR SPACE FLIGHT N64-29939 AMRL-TDR-64-38

HOLLISTER, L. E. VARIATION IN PLASMA FREE FATTY ACIDS IN RESTED A64-81173 FASTING SUBJECTS

HOLLOWAY, R. J.

BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA

HOLMES, D. D. EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE CART-63-23

EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION & HEMODYNAMICS IN DOGS CART-63-26

HOLMGREN, A. TURNOVER RATE AND OXIDATION OF DIFFERENT FREE FATTY ACIDS IN MAN DURING EXERCISE A64-80698

HOLST, H.-E. EAR DRUM HOVEMENTS FOLLOWING STIMULATION OF MIDDLE EAR MUSCLES

HOMER. G. M. NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED DIET FOR SPACE FLIGHT MISSION A64-8 A64-80863

HOMMA, T.
DETERMINATION OF BLOOD NITROGEN CONTENT BY GAS N64-17937 CHROMATOGRAPHY

HOMMER, K. ELECTRORETINOGRAPHIC RESPONSE OF RABBIT TO INTRAOCULAR PRESSURE ISCHEMIA UNDER DIFFERENT CONDITIONS OF LIGHT STIMULUS INTENSITY A64-80374

HOMONOFF, H.
BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIDINSTRUMENTATION N64-26609 NASA-CR-76

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANDRECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NASA-CR-58560

HONEGGER. H. EYE MOVEMENTS INVESTIGATED IN RELATION TO VISUAL ACUITY FOR MOVING OBJECT A64-81032

VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS

WITH NORMAL VISION AND WITH VARIOUS VISUAL A64-81033 ANOMALIES

HONIG, W. M.
PASSIVE TELEMETRY OF PHYSIOLOGICAL PHENOMENA
N64 NASA-CR-56942

HONJO, S. DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING
A64-8 A64-80591

SYMPOSIUM ON TOXICITY IN NUCLEAR SUBMARINES AND MANNED SPACECRAFT AD-440942 N64-24606

HOOGERWERF, A.
VITAMIN C ADMINISTRATION AND THE MECHANICAL
EFFICIENCY OF HUMAN SUBJECTS DURING PHYSICAL A64-80248

HOOK, E. W. INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS N64-307 N64-30754 CASUALTY SITUATIONS

HOPKINS, B. J.
TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS N64-10616 UR-635

STRONTIUM 90 TOXICITY IN RAT EMBRYO N64-18348 UR-639

RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF COSE, AGE, & ADMINISTRATION RATE UR-642 N64-207 N64-20715

HORNSETH, J. P.
CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS N64-17508 AMRL-TDR-63-111

HORODETSKYY, D. O.
PREVENTION AND TREATMENT OF ACUTE RADIATION
SICKNESS IN DOGS WITH SODIUM GALLATE
N64 JPRS-19269

HOROWITZ, M. W.
GIBSON THEORY ON VISUAL PERCEPTION AND HUMAN
FACTORS - SENSORY CUES AND DYNAMIC DISTORTION IN
HELICOPTER FLIGHT SIMULATOR NAVTRADEVCEN-294-5 N64-28636

HOROWITZ, N. H. EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-24950

BIOCHEMICAL CHARACTERISTICS OF LIFE ON MARS TO DEVELOP DESIGN OF MARTIAN BIOLOGICAL EXPERIMENTS A64-24951

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE DETECTION AND ANALYSIS NASA-CR-55511 N64-22755

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE

NASA-CR-56532 N64-22793

HORTON, B. VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE A64-25546 OXYGEN EXPOSURE

LIPID PEROXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO OXYGEN A64-25550 TOXICITY

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER HIGH PRESSURE A64-8 A64-80920 CVATH, S. M.

CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING,
HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE

A64-B0418

HEART RATE AND RECTAL TEMPERATURE OF RAT SWIMMING IN COLD WATER A64-81319

HUMAN REACTIONS TO COLD ENVIRONMENT AD-444482

N64-33366

HOUDAS, Y.

WATER LOSS THROUGH RESPIRATION

A64-80028

CONTINUOUS MEASUREMENT OF RESPIRATORY AIR TEMPERATURE IN RELATION TO RESPIRATORY PHASE, AMBIENT AIR TEMPERATURE, AND AMBIENT AIR HUMIDITY A64-80281

INSENSIBLE PERSPIRATION AND BODY WEIGHT AS RELATED TO VARIOUS ATMOSPHERIC HUMIDITY LEVELS

A64-80771

HOULE, D. B.
SURGERY FOR MASSIVE UPPER GASTROINTESTINAL
HEMORRHAGE IN FLYING PERSONNEL A64-80869

HOUSE, A. S.
AMALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES
N64-17882

HOUSE, E. L.
HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER
EAR
ARL-TDR-64-1
N64-18650

HOUTZ, S. J.

ACTION POTENTIALS RECORDED BY SURFACE ELECTRODES
OF QUADRICEPS, HAMSTRINGS, TIBIALIS ANTERIOR, AND
TRICEPS SURAS MUSCLES DURING POSTURE CHANGE

A64-B1020

HOWARD, I. P.
RELATIVE DEPTH JUDGMENT AS FUNCTION OF EYE
MOVEMENT
A64-80974

HOWARD, J.

COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED
MICE

N64-15203

HOWARD, J. L.
DIAGNOSIS AND TREATMENT OF CORNEAL ENDOTHELIAL
DYSTROPHY IN FLYING PERSONNEL A64-80693

HOWARTH, E.
APPARATUS FOR MEASURING KINESTHETIC JUDGMENTS

A64-81305

PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE,
COMPOSITION AND OXYGEN CONSUMPTION
A64-12995

HOWELL, C. D.
CARDIOVASCULAR RESPONSES TO HEAT, COLD, DIVING,
HYPODYNAMIC STATES, EXERCISE, AND HIGH ALTITUDE

A64-80418

HOWELL, W. C.
TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES

VARIABLES
RADC-TDR-64-266
N64-31695

HOWLAND, J. W.
MICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION

664-2554:

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-80830

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE RADC-TDR-63-352 N64-12270 HOWLETT, L. N.
FLIGHT SURGEON RULE IN MAINTENANCE OF HUMAN
ELEMENT IN MAN-MACHINE-ENVIRONMENT COMPLEX
A64-80224

HOZAWA, J.
VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED
QUANTITATIVELY
A64-80255

HSIEH, A. C. L.
EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL
BLOOD FLOW
AAL-TDR-63-35
N64-33524

HUANG, S.-S.

REQUIREMENTS FOR BIOLOGICAL EVOLUTION IN THE
UNIVERSE, ON THE BASIS OF NATURE AND EVOLUTION OF
STARS

A64-10216

THEORETICAL PREDICTIONS THAT 3 OUT OF 42 KNOWN
STELLAR SYSTEMS MAY SUPPORT LIFE IF PLANETS HAVE
EVOLVED FOR THESE STARS

A64-10217

EXISTENCE OF LIFE ON PLANETS IN A BINARY SYSTEM, WITH REGARD TO HABITABLE ZONES, STABILITY OF PLANETARY ORBIT AND CONDITIONS FOR LIFE SUPPORT A64-10218

BETA LYRAE - THEORY OF PHOTOMETRIC AND SPECTROGRAPHIC BEHAVIOR WITH MODEL NASA-RP-78 N64-10668

HUCHINGSON, R. D.
HUMAN ENGINEERING CRITERIA FOR USE IN SPACE
SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND
REPAIR OF ADVANCED SPACE SYSTEMS
NASA-CR-58575
N64-29557

HUDDLESTON, H. F.

MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT
TASK SIMULATOR
IAM-TM-226

N64-25828

HUEBNER, W. J., JR.
CONTROL OF DISCRETE STOCHASTIC PROCESSES AS
FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS
AMRL-TDR-63-111
N64-17508

HUEY, R. S.
INDRGANIC SYSTEM FOR OXYGEN RECOVERY FOR LIFE
SUPPORT IN SPACECRAFT
AMRL-TDR-64-30
N64-32626

HUFFORD, L. E.
RETINAL AREA AND STIMULUS INTENSITY RELATIONSHIP
TO HUMAN REACTION TIME
A64-2775;

HUGGINS, A. W. F.
INTERPRETATION OF CONTINUOUS MESSAGE SWITCHED
ALTERNATELY TO LEFT AND RIGHT EARS, EXAMINING
DISTORTION OF TEMPORAL PATTERN
A64-21332

ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

HUGHES, D. A.
HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
ULTRASOUND ON LABYRINTH AND TEMPORAL BONE
A64-80979

HUGHES, D. E.
DISINTEGRATION OF YEAST CELL BY HIGH INTENSITY
ULTRASDUND
A64-B1174

HUGHES, F. M.
TRACKING APPARATUS FOR DETECTION OF SLIGHT
IMPAIRMENT OF ATTENTION AND MOTOR PERFORMANCE
A64-80709

COMPARATIVE EFFECT OF CHLORMEZANONE, SINGLY AND IN COMBINATION WITH ASPIRIN, ETHANOL, AND PLACEBO ON HUMAN PERFORMANCE UNDER DELAYED AUDITORY FEEDBACK A64-81240

HUIE, C. R.
METABOLIC COST OF PILOTING LIGHT AIRCRAFT TO
EXAMINE HYPERVENTILATION TENDENCY UNDER INDUCED
HYPOXIA AND SIMULATED INSTRUMENT FLYING TASK

N64-16799

A64-20696

PHYSIOLOGICAL EFFECTS OF INDUCED HYPOXIA ON PILOT DURING INSTRUMENT FLYING AND FLIGHT SIMULATION A64-80502

MONITORING ENVIRONMENTAL RADIOACTIVITY IN VICINITY OF BROOKHAVEN NATIONAL LABORATORY N64-14395 BNL-807/T-310/

HULTGREN, H. N. EDEMA AT HIGH ALTITUDE IN RELATION TO CARDIOVASCULAR PHYSIOLOGY

A64-80276

HYPOXIA - TREATMENT METHODS FOR HIGH ALTITUDE PULMONARY EDEMA N64-21816 AD-433546

HUMPHREY, H. T.

GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER N64-17948

HUMPHREY, R. E.
AUTOMATIC COMPUTER METHODS FOR DETERMINING
PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY LINEAR TIME-INVARIANT MODEL N64-27385 NASA-CR-56373

REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS AFFECTED BY INTERPOLATED MONOCULAR AND BINCCULAR VISUAL PURSUIT

SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR A64-12935 PERFORMANCE

HUNDLEY, L.
DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS A64-24949

HUNT: D. P. EFFECTS OF CURVILINEAR AND DISCRETE TRANSFORMATIONS OF ERROR INFORMATION ON HUMAN TRACKING PERFORMANCE N64-17510 AMRL-TDR-63-137

HUNT, E. L.
NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION USNRDL-TR-670 N64-31175

HUPP, E. W.
EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN

DAMAGES OF IONIZING RADIATION TO ORGANS OF MAMMALS N64-25313

HURSH,

RSH, J. B.
DEVICE FOR MEASUREMENT OF RADON IN BREATH N64-17466 UR-640

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM N64-31319 UR-648

HURT. H. H., JR.

BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

HURTADO. A.

ALTITUDE ACCLIMATIZATION IN NATIVES OF THE A64-80136 PERUVIAN ANDES

PHYSIOLOGY OF NATURAL ACCLIMATIZATION OF MAN BORN AND LIVING IN HIGH ALTITUDE ENVIRONMENT A64-80432

HUSTEN. W. G. DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

HUSTON. R. L. CARDIOVASCULAR EFFECTS OF REFEEDING STRESS FOLLOWING STARVATION N64-21553 TM-62-6

HUTCHINS, T. B.
PORTABLE ELECTROMANOMETER FOR DIRECT BLOOD PRESSURE MEASUREMENT UNDER FIELD CONDITIONS A64-80295

HUTTUNEN, M.

DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM OF HYPOTHERMIC DOGS

RESPIRATORY PHYSIOLOGY DURING FORWARD ACCELERATION AND PROTECTIVE MEASURES

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT MEIGHTESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY N64-22711 CAR I-63-30

HYDE, R. W.

CARBON DIOXIDE EFFECT ON PULMONARY VASCULAR A64-80701 RESISTANCE

COMPARISON OF METHODS FOR EVALUATING PROTECTIVE A64-81322 HEADGEAR

HYMAN. A. VISUAL DISTANCE ESTIMATION IN SPACE, USING ANGULAR SUBTENSE AND ILLUMINANCE AND LUMINANCE OF CELESTIAL AND ORBITAL BODIES A64-10624

IAMPIETRO, P. F.
SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT ON PLASMA FREE FATTY ACIDS DURING PHYSICAL **EXERCISE**

EFFECTS OF TRANQUILIZER ON BODY TEMPERATURE N64-17236 CAR I-63-23

IAZDOVSKII, V. I.

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND A64-13798 A64-13798 CYTOLOGICAL ORGANISMS

SPACE FLIGHT FACTORS IN SPACE BIOLOGY AND MEDICINE INCLUDING ACCELERATION, ISOLATION, TEMPERATURE FLUCTUATIONS AND PRESSURE GRADIENTS

A64-25569

BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT USING GEOPHYSICAL ROCKET AND MANNED SATELLITE OBSERVATIONS A64-

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS INCLUDING SENSORY, MOTOR, VEGETATIVE AND HISTOMORPHOLOGICAL A64-25572 VARIATIONS

PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN A64-25574

PHYSIOLOGICAL INTERACTION OF VESTIBULAR, VISUAL AND PROPRIOCEPTIVE ANALYZERS DURING LONG SPACE A64-25575

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY 864-25585

ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS A64-27272

BIDLOGICAL AND MEDICAL CONSIDERATIONS OF SPACE FLIGHT INVESTIGATING PHYSIOLOGICAL FUNCTIONS, WORKING ABILITY, HEALTH AND SAFETY OF ASTRONAUT 464-28459

IBERALL, A. S.
DYNAMICS OF PHYSICAL AND CHEMICAL SYSTEMS IN MAMMALS - THERMOREGULATION, CARDIOVASCULAR SYSTEMS, HORMONES, AND BEHAVIOR NASA-CR-129 N64-32833

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT,

WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

IGARASHI, M.

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT
JUNCTION OF INFERIOR UTRICULAR SINUS AND
SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS PHYSIOLOGY

SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS PHYSIOLOGY
NASA-CR-59374
N64-33906

IIZUKA, M.
CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL

EXERCISE IN LOW PRESSURE ENVIRONMENT

RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL EXERCISE AT SIMULATED ALTITUDE A64-80157

A64-19173

IKEDA, M.
BENZENE INTOXICATION AS RELATED TO ENZYME
ACTIVITY IN RAT AND RABBIT
A64-80720

IKEDA. S.
NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY
PHASE
A64-80257

IKEGAM, H.

MAXIMUM BREATH HOLDING TIME IN MAN AS AFFECTED BY
PURE OXYGEN INHALATION, ALTITUDE, AND PRESSURE
BREATHING

A64-80960

IKEGAMI, H.

PURE OXYGEN INHALATION, ALTITUDE AND PRESSURE
BREATHINGS EFFECT ON MAXIMUM BREATH HOLDING TIME

A64-23764

IKELS, K. G.
MITROGEN SOLUBILITY IN WATER AND EXTRACTED HUMAN
FAT — GAS CHROMATOGRAPHIC DETERMINATION
SAM-TOR-64-1
N64-19822

SOLUBILITY OF NEON IN WATER AND EXTRACTED HUMAN
FAT
SAM-TDR-64-28
N64-24141

ILIN, E. P.
ASYMMETRY IN MUSCULAR SENSE OF WEIGHT IN HUMAN
ARMS
A64-81316

ILIN, L. A.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS
THERAPY FOR ANIMALS
JPRS-23678
N64-16694

ILINA, I. A.
PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL
ORIGIN
N64-11672

ILINA, S. S.
EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF
MICE N64-11679

ILNITSKAYA, A. V.
EFFECT OF VANADIUM TRIOXIDE DUST ON DRGANISM —
TOXICOLGY
N64-23368

ILYEVICH, A. I.

HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO RADIATION

N64-12784

ILYUTKIN, G. I.
CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE
HYPOTHERNIA PROCESSES
JPRS-24504
N64-20012

IMAIZUMI, K.
DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING A64-80591

IMOGENE, M.
ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING
VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND
SEA LEVEL A64-80168

IMSHENETSKII, A. A.
PHYSIOLOGICAL AND MORPHOLOGICAL CHARACTERISTICS OF
LIFE IN SPACE WITH OBSERVATIONS ON INTERPLANETARY

TRANSMISSION OF BACTERIAL SPORES

A64-16475

MICROBIOLOGICAL ANALYSIS OF IRON AND STONE
METEORITES, NOTING ABILITY OF BACTERIA TO
PENETRATE INTO CENTRAL REGIONS
A64-18628

IMSHENETSKIY, A. A.
ULTRAHIGH VACUUM EFFECTS ON MICROORGANISMS
A64-18740

EXTRATERRESTRIAL LIFE - METEORITES, PLANETS, AND DUTER SPACE ENVIRONMENTS
JPRS-22015 N64-10599

POSSIBILITY OF EXISTENCE AND METHODS OF DETECTING EXTRATERRESTRIAL LIFE N64-11671

INAMI, Y. H.

BIOELECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION
POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, DXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS
NASA-CR-55744
N64-15873

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY
PRODUCTION
NASA-CR-54051
N64-25906

INFANTE, F.
HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART
FUNCTION A64-80408

INGELFINGER, A. L.
LIFE SUPPORT SUBSYSTEMS CONSIDERING FOOD, WATER,
WASTE, ATMOSPHERIC AND THERMAL CONTROLS

A64-20257

LIFE SUPPORT SYSTEMS FOR FUTURE ORBITAL AND EXPLORATORY MISSIONS FOR PERIODS UP TO A YEAR A64-80563

INGELSTEDT, S.

EAR DRUM MOVEMENTS FOLLOWING STIMULATION OF MIDDLE
EAR MUSCLES A64-80296

EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM
A64-80306

MIDDLE EAR PRESSURE DETERMINED BY MASTOID PUNCTURE TECHNIQUE A64-80307

INGVAR, D. H.
REGIONAL METABOLISM AND CIRCULATION OF CEREBRAL
CORTEX AND EFFECT ON SELECTIVE VULNERABILITY TO
ANDXEMIA
N64-14587

INNIS, R. C.

MANUAL CONTROL OF APOLLO SPACECRAFT DURING
ATMOSPHERIC ENTRY
NASA-TN-D-2467

N64-27946

IOFFE, V. I.

ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN
IMMUNOLOGICAL AND INFECTION PROCESSES

N64-17168

IONASCU, A.
CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO
DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE
WITH AND WITHOUT PRESSURE SUIT
A64-28457

IORDANSKIY, A.

HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT
JPRS-19953
N64-11131

IRISAWA, H.

RELAXATION OF MAMMALIAN SMOOTH MUSCLE BY ELECTRIC CURRENT STIMULATION
FR-2
N64-19086

IRVINE, L. A.
GERMINATION AND GROWTH OF BACTERIAL SPORES IN
SIMULATED MARTIAN ENVIRONMENT
SAM-TDR-63-75
N64-12340

MICROBIOLOGICAL CONTAMINATION OF MANNED AND UNMANNED SPACECRAFT N64-24611

IRVINE, T. F., JR.
ATTENUATION OF EQUILIBRIUM TEMPERATURE GRADIENTS
IN SPACE SUITS USING WATER
AMRL-TDR-63-80 N64-13653

SPACE SUIT DESIGN FACTORS OF TEMPERATURE VARIATION WITH TIME, TEMPERATURE DISTRIBUTION, AND FLUID CIRCULATION FOR TEMPERATURE EQUALIZATION M64-15093

IRVING, L.

TACTILE SENSITIVITY THRESHOLD OF FINGER IN
RELATION TO SKIN TEMPERATURE

A64-80120

IRWIN, I. A.

HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE
FOR TITAN II ENGINE
LRP-317/TDR-63-218

N64-26025

ISAAK, D.
DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION
IN TWO STRAINS OF MICE
A64-80726

ISACHENKO, T. I.

MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION
JPRS-25347 N64-28007

ISAKOV, P. K.
STRESS ON HUMAN BODY BY ACCELERATION AND
WEIGHTLESSNESS
JPRS-20345

S-20345 N64-11137

SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

ASTRONAUT BEHAVIOR ABOARD SATELLITE - REACTION TO WEIGHTLESSNESS, ACCELERATION, AND RADIATION HAZARD N64-23638

ISHIKAWA, S.
FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL
CONTROL
A64-80989

ISHIZAKI, M.
BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM
AND 5 MM AMPLITUDE UPON WATER METABOLISM OF
HEALTHY MALE SUBJECT
A64-19170

ELECTROCARDIDGRAMS AND PLETHYSMOGRAPHS USED TO STUDY BIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-19171

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-80155

PHYSIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION
A64-80156

ISKUM, M.
CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION
AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN
MAN AND DOG

A64-81209

ISRAEL, J.
PILOTING ERRORS AND AIRCRAFT INSTRUMENTS
RSIC-89 N64-12238

ISRAEL, S.
PH OF FOREHEAD SWEAT AND SALIVA DURING PHYSICAL
EXERCISE A64-80370

ISSEKUTZ, 8. JR.
EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT
BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM
BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

A64-80820

ITO, H.

CORTICAL POTENTIALS EVOKED BY PHOTIC STIMULATION
AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN

A64-80003

ITO, M.

OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

IUDIN, E. V.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC
BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

IUGANOV, E. M.
WEIGHTLESSNESS EFFECTS ON EXCITABILITY OF MANS
VESTIBULAR ANALYZER
A64-25583

MINIMUM ARTIFICIAL GRAVITATIONAL FORCE NEEDED FOR NORMAL POSTURE AND MOTOR ACTIVITY, USING ALBINO RATS AND MICE A64-25584

IVANENKO, YE. F.
PHYSICOCHEMICAL PROPERTIES OF CEREBRAL PROTEINS
DURING EXCITATION OF NERVOUS ACTIVITY BY CAMPHOR
JPRS-24119
N64-18085

IVANNIKOV, A. T.
UNITHIOL EFFECT UPON CASES OF ACUTE URANIUM
POISONING
N64-30245

IVANNIKOVA, R. V.
HISTOLOGICAL CORTICAL NEURON REGENERATION VERSUS
CORTICAL ELEMENT DISPLACEMENT AFTER BILATERAL
OCCIPITAL LOBECTOMY - NEUROLOGY
JPRS-22690 N64-13086

IVANOV, A. YE.
ACUTE RADIATION SICKNESS IN MAN
FTD-TT-63-558/1&2 N64-21645

IVANOV, E. A.

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING PHOTOSYNTHESIS INTENSITY OF CHLORELLA

A64-25610

AUTOMATIC CONTROL OF ALGAE CULTIVATION REGIME IN BIOLOGICAL AIR REGENERATION SYSTEM

A64-25613

IVANOV, I. I.
RADIATION EFFECT ON ORGANISM OF MAMMALS,
INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

IVANOV, K. P.
TOLERANCE TO HYPOXIA IN RAT EXPOSED TO LETHAL DOSE
OF X-RAYS
A64-81267

PHYSIOLOGICAL MECHANISMS OF CHEMICAL
THERMOREGULATION N64-22169

IVANOV, R. F.
ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID
PROPERTIES OF HUMAN SERUM , A64-80360

IVANOV, V. A.
INDIVIDUAL BLOOD CONSTITUENTS & BLOOD SUBSTITUTES
FOR TRANSFUSION
JPRS-22401 N64-11959

IVANOV, V. I.
PHYSICAL VALUES FOR GAMMA AND NEUTRON RADIATION
DOSAGES
FTD-TT-63-1050/16284
N64-23437

IVANOV, YE. A.

AUTOMATIC CONTROL OF GREEN PLANT SYSTEMS FOR
PHOTOSYNTHETIC AIR REGENERATION - MANNED SPACE
FLIGHT USE
JPRS-21610 N64-10201

CAPILLARY-MANOMETRIC AND POLAROGRAPHIC METHODS FOR MEASURING RATE OF PHOTOSYNTHESIS OF CHLORELLA N64-23776

AUTOMATIC CONTROL OF ALGAL CULTIVATION CONDITIONS N64-23779

IVANOV, YU.
PROBLEMS OF PROVIDING ATMOSPHERE FOR SPACE CABIN —
AIR CONDITIONING SYSTEMS
FTD-TT-62-1545/1
N64-15590

IVANOV, YU. N.
CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO

CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/18284 N64-3310:

IVANOVA, M. P.
ELECTROENCEPHALOGRAPHIC CHANGES IN VARIOUS AREAS
OF CEREBRAL CORTEX DURING PHYSICAL WORK BY MAN
A64-B0237

LATENT PERIOD OF MOTOR FUNCTION AND DEPRESSION OF ALPHA RHYTHM DURING MUSCULAR WORK, HYPERVENTILATION AND RESPIRATION ARREST

A64-81054

IMANE, M.
BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM
AND 5 MM AMPLITUDE UPON WATER METABOLISM OF
HEALTHY MALE SUBJECT
A64-19176

ELECTROCARDIOGRAMS AND PLETHYSMOGRAPHS USED TO STUDY BIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-1917!

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-8015

PHYSIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION
A64-80156

IZOSIMOV, G. V.
HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX
AND SUBCORTICAL AREAS OF BRAIN IN RABBIT

A64-81253

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896

IZVEKOVA, A. V.
CHEMOTHERAPY FOR RADIATION SICKNESS
JPRS-27220

N64-33578

ı

JACKSON, D. C.
TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN
TEMPERATURES IN DOG AND RHESUS MONKEY

A64-80113

REDUCED SET POINT TEMPERATURE IN EXERCISING DOG AMRL-TDR-63-93 N64-12219

THERMAL & METABOLIC RESPONSE OF MEN TO MODERATE
COLD EXPOSURE AT NIGHT
AAL-TDR-62-44 N64-13645

JALKSUN, J. K.

CARDIOVASCULAR DISEASE AND DISORDER FOUND IN
MILITARY AND CIVILIAN PILOTS INVOLVED IN AIRCRAFT
ACCIDENTS

A64-B0223

JACKSON, N. N.
MONITORING TRACE CONTAMINANTS IN SIMULATED
MANNED SPACECRAFT
A64-80538

JACOB, H.

CENTRAL NERVOUS SYSTEM TISSUE AND CELLULAR
PATHOLOGY IN HYPOXEMIC STATE N64-14594

JACOBIUS, A. J.
ABSTRACTS OF CURRENT MEDICAL RESEARCH

N64-10621

ABSTRACTS OF CURRENT LITERATURE IN AEROSPACE MEDICINE N64-12899

AEROSPACE MEDICINE AND BIOLOGY - BIBLIOGRAPHY
N64-20020

JACOBS, G.
ANOXIA INDUCED CHANGES IN METABOLITE CONTENT OF
RABBIT LUNG
A64-80246

CYBERNETICS, HOMEOSTASIS, AND MODEL OF DISEASE AS RELATED TO COMPUTER DIAGNOSIS A64-80733

JACOBS, M. S.
HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER

ARL-TDR-64-1

N64-18650

JACOBS, P. H.
CONTACT DERMATITIS OF HANDS OF PILOT DUE TO
MEARING UNLINED FLIGHT GLOVES, NO. 83A

A64-80098

JACOBSON, E.
PILOT AUTOGENOUS RESPONSE TO CAUSES OF ESSENTIAL
HYPERTENSION MEASURED BY NEUROVOLTMETER, AND
METHODS FOR OVERCOMING THIS RESPONSE

A64-11441

JACOBSON, L. O.
PATHOLOGICAL STUDIES ON STEROID SEX HORMONES,
RADIATION EFFECT ON METABOLISM, LEUKEMIA,
PARATHYROID, AND HYPOTHYROIDISM
ARCH-20
N64-15398

JACOBSSON, S.
LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT

JACQUEMIN, C.
RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK
DURING POSITIVE PRESSURE BREATHING
A64-13751

ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY
MUSCLES DURING POSITIVE PRESSURE BREATHING
A64-80050

PRESSURE-VOLUME DIAGRAM TO EXPLAIN MAINTENANCE OF NORMAL BREATHING RHYTHM DURING POSITIVE PRESSURE BREATHING A64-80057

DETERMINATION OF STATIC PULMONARY AND
THORACOPULMONARY COMPLIANCE DURING POSITIVE
PRESSURE BREATHING
A64-80059

ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION

A64-80279

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE DECOMPRESSION IN SUBJECTS WEARING A FRENCH HIGH-ALTITUDE SUIT A64-80282

RESPIRATORY PHYSIOLOGY IN AEROSPACE MEDICINE
A64-80718

JADASSOHN, W.
X-RAY PROTECTIVE EFFECTS OF SEROTONIN AND ALLIED
SUBSTANCES
REPT.-1
N64-32583

JAEGER. M. J.
AIRWAY RESISTANCE MEASURED WITH VOLUME
DISPLACEMENT BODY PLETHYSMOGRAPH

A64-80702

JAEGER, E. A.
VISUAL FIELD LOSS PATTERN DURING POSITIVE
ACCELERATION DEMONSTRATED AND REFINED WITH
PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER
A64-27604

JAEGER, M. J.
EFFECTS OF COMPRESSIBILITY OF ALVEDLAR GAS ON
DYNAMICS OF BREATHING CYCLE - RESPIRATORY
PHYSIOLOGY
SAM-TDR-63-71
N64-26653

AIRWAY RESISTANCE IN NORMAL RESPIRATION MEASURED BY VOLUME DISPLACEMENT PLETHYSMOGRAPH SAM-TDR-64-17 N64-29988

JAEGER, W.
VISUAL ACUITY FOR MOVING OBJECTS IN INDIVIDUALS
WITH NORMAL VISION AND WITH VARIOUS VISUAL
ANOMALIES
A64-81033

- JAFFE, L. D.

 UNMANNED SPACECRAFT STERILIZATION AND NAVIGATION
 TO AVOID INTERPLANETARY CONTAMINATION

 A64-24982
- JAFFE, L. S.

 TIME-TEMPERATURE RELATIONSHIP OF AIR COMPRESSORS
 OF TURBOJET, TURBORAMJET, OR SUPERSONIC TRANSPORT
 PROPULSION TO DEVELOP ADEQUATE TECHNIQUES OF OZONE
 DESTRUCTION

 A64-21181

OZONE IN HIGH ALTITUDE AIRCRAFT CABINS

A64-80661

- JAHNKE, J. C.
 SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST
 ANXIETY SCALE
 A64-80936
- JAMES, E. W., II

 DYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER
 SYSTEM USING ANALOG COMPUTER TO SIMULATE
 PHYSIOLOGICAL RESPONSE

 A64-25320

THERMOREGULATION AND MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM FOR ANALOG SIMULATION

A64-81038

- JAMES, J. A.
 HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF
 ULTRASOUND ON LABYRINTH AND TEMPORAL BONE
 A64-80979
- JAMES, L. S.
 TEMPERATURE AS RELATED TO PH AND CARBON DIOXIDE IN BLOOD OF HUMAN ADULT AND NEWBORN

A64-81012

N64-29650

- JAMES, R. A.
 PRODUCTION AND DISTRIBUTION OF RADIOACTIVE IODINE
 IN MILK AND HUMAN THYROID
 UCRL-7716
 N64-1909
- JAMES, R. C., JR.
 HUMAN ENGINEERING CRITERIA FOR USE IN SPACE
 SYSTEMS ENGINEERING, ESPECIALLY IN MAINTENANCE AND
 REPAIR OF ADVANCED SPACE SYSTEMS
 NASA-CR-58575
 N64-29557
- JAMIESON, C.
 BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT
 DESIGN AND ENGINEERING BIOINSTRUMENTATION
 NASA-CR-76
 N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANDRECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NSA-CR-58560 N64-29546

JAMIESON, D.
PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND
DISULPHIDE GROUPS DUE TO HIGH PRESSURE DXYGEN
BREATHING IN RATS A64-8007.

JAMPOLSKY, A.

VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION PERSONNEL SELECTION

AD-442707

JANIGRO, G.
RESPIRATORY VOLUME PER SECOND AND TIFFENEAU INDEX
IN OVER 1000 PILOT CANDIDATES FOR SCREENING

JANKOWIAK, J.
ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM
FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM
IN RABBITS
A64-80398

JANSEN, G.
NOISE EFFECTS ON PERFORMANCE OF INTELLIGENCE AND
CONCENTRATION TESTS
A64-80410

NOISE EFFECT ON PERIPHERAL CIRCULATION & PHYSICAL EXERCISE A64-80413

JARRETT, A.
TRANSMISSION LOSS DETERMINATION IN BICYCLE
ERGOMETER
FPRC/MEMO-198
N64-25843

- JAYNES, W. E.
 PERFORMANCE DECREMENT IN VEHICLE DRIVING SKILL
 REPT.-597 K64-16089
- JEEVES, M. A.
 MOTION AFTEREFFECT CONSIDERED WITH RESPECT TO ITS
 ORIGIN
 A64-80470
- JEFFRESS, L. A.
 DETECTION OF TONAL SIGNAL IN BACKGROUND OF
 GAUSSIAN NOISE, EXAMINING STATISTICS OF STIMULUS
 A64-18001
- JELLINEK, M.
 PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG
 DURING SURFACE HEATING A64-80874

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON TISSUE CATECHOLAMINE CONTENTS N64-12943

- JENKINS, D. W.

 NASA BIOSATELLITE PROGRAM TO STUDY PHYSIOLOGICAL,
 EVOLUTIONARY AND GENETIC EFFECTS OF WEIGHTLESSNESS, RADIATION AND REMOVAL FROM EARTH ROTATION
 A64-1875
- JENKINS, J. H.
 ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWERPLANTS
 TID-19562
 N64-16554
- JENKINS, O.
 PURSUIT ROTOR PERFORMANCE WITH POSITIVE AND
 NEGATIVE APPROVAL MOTIVATION A64-81216
- JENNINGS, C. C.
 CIRCULATING DEVICE FOR CLOSED CIRCUIT RESPIRATORY
 SYSTEM
 AMRL-TDR-64-8
 N64-21433
- JENSEN, R. E.
 ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING
 BLACKOUTS INDUCED BY ACCELERATION
 NADC-ML-6402
 N64-20450
- JERISON, H. J.

 VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING
 SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN
 MANNED SPACEFLIGHT

 A64-10627

VIGILANCE TEST SHOWING EFFECT OF EVENT RATE ON OBSERVATION PERFORMANCE AND NOTING DECISION THEORY APPROACH

A64-15474

- JOCHIMSEN, P.
 HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM
 AND PERIPHERAL NERVES IN THE RAT

 A64-B0066
- JOCHIMSEN, W.
 HYPOTHERMIA EFFECT ON THE CENTRAL NERVOUS SYSTEM
 AND PERIPHERAL NERVES IN THE RAT

 A64-80066
- JOHANSSON, B. W.
 DEXTRAN INFLUENCE ON ELECTROCARDIOGRAM OF
 HYPOTHERMIC DOGS
 A64-80086
- JOHANSSON, G.

 RECOVERY TIME AFTER EXPOSURE TO GLARE STUDIED AS
 FUNCTION OF DURATION, INTENSITY, AND CONTRAST

 A64-80601
- JOHNSON, B. C.
 CARDIOVASCULAR EFFECTS OF REFEEDING STRESS
 FOLLOWING STARVATION
 TM-62-6
 N64-21553
- JOHNSON, C.
 MOTION SICKNESS- EFFICIENCY OF LABORATORY TESTS
 OF DRUG TREATMENT A64-80151

MOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE SUBSTITUTION AND MIRROR DRAWING

A64-80152

NAUSEA AND VOMITING IN SUBJECTS EXPOSED TO VERTICAL MOTION AT WARM AND MODERATE TEMPERATURE A64-80153 JOHNSON, D. E.

SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR
PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
UCLA-519

N64-13004

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES
OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521
N64-20672

UCLA-12-521 N64-2067

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA UCLA-12-523 N64-21215

JOHNSON: G. E.
CHLORPROMAZINE EFFECT ON CATECHDLAMINE EXCRETION
OF NORMAL AND COLD ACCLIMATED RAT

OF NORMAL AND COLD ACCLIMATED RAT

A64-80983

JOHNSON, H. E.
POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY

INHALATION OF NINE SOLVENT VAPORS

A64-81096

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

JOHNSON, J. E.
ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE
NRL-6074
N64-19393

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE NRL-6064 N64-19407

JOHNSON, J. H.
CORRELATION OF MATHEMATICS AND PHYSICS GRADES WITH
FLIGHT TRAINING GRADES IN BASIC AND ADVANCED
STAGES
A64-19139

JOHNSON, J. R.
PENTABORANE POISONING AND RELATION BETWEEN LETHAL
AND INCAPACITATING DESAGES IN MAMMAL

JOHNSON, K. D.
TOXICITY HAZARDS IN SOLID PROPELLANT OPERATION
ARS PAPER-2766-63
N64-22240

JOHNSON, L. C.
ELECTROENCEPHALOGRAM, HEART RATE, SKIN TEMPERATURE
RESPIRATION, AND GALVANIC SKIN RESPONSE DURING
SLEEP AFTER LONG MAKEFULNESS PERIOD

JOHNSON, L. F., JR.
BAROMETRIC PRESSURE EFFECT ON MAXIMUM PRESSUREVOLUME RELATIONSHIP OF HUMAN RESPIRATORY SYSTEM
A64-22059

PRESSURE VOLUME RELATIONSHIPS AT 30,000 FEET ALTITUDE AND AT GROUND LEVEL WHILE BREATHING PURE 0XYGEN A64-80630

MAXIMUM PRESSURE-VOLUME RELATIONSHIPS IN HUMAN RESPIRATORY SYSTEM SAM-TDR-64-21 N64-25338

JOHNSON, P. 8.
INTERCORRELATION OF EXERCISE, BODY COMPOSITION,
FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND
ADRENAL WEIGHT IN RAT
A64-B0785

JOHNSON, R. E.
CALORIC REQUIREMENTS OF MAN UNDER SPACE FLIGHT
CONDITIONS
A64-80039

WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL STRESSES - COLD, EXERCISE, AND STARVATION APR-2 N64-32144

JOHNSON, R. L.
CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN
SIMULATOR CONFINEMENT A64-19131

PHYSICAL INACTIVITY EFFECT, DISREGARDING
WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING
DURING ORTHOSTATIC TESTING
A64-22060

TWO WEEK BED REST EFFECT UPON CARDIOVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL REACTIONS IN MAN A64-27597

LEFT BUNDLE BRANCH BLOCK IN FLYING PERSONNEL
A64-80172

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS

A64-B0632

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

JOHNSON, W. H.
OTOLITHIC STIMULUS EFFECT ON DISORIENTATION AND
TROUBLESOME ILLUSIONS IN HUMAN STUDIED, USING
LINEAR ACCELERATION OR ORBITING WITHOUT
ACCELERATION
A64-25554

ROLE OF OTOLITHS IN DISORIENTATION DURING AND AFTER WEIGHTLESSNESS AND CHANGES IN LINEAR ACCELERATION A64-B0924

PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION
IN RELATION TO MOTION SICKNESS, SPATIAL
DISORIENTATION, & BLACKOUT N64-13454

COMPARISON OF SYMPTOMATOLOGY IN HEALTHY PERSONS AND SUBJECTS WITH LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO UNUSUAL CENTRIPETAL FORCES NASA-CR-55621 N64-15347

LOSS OF LABYRINTHINE FUNCTION WHEN EXPOSED TO CENTRIPETAL FORCE - MOTION SICKNESS

N64-22432

JOHNSON, W. M.
LOCKING AHEAD MECHANISMS TO CHARACTERIZE HUMAN
OPERATORS SENSING AND USING FUTURE IMPUT DATA IN
FORCED PACE CONTROL TASKS
A64-24839

JOHNSTON, F. E. MECHANICS OF HUMAN BODY AMRL-TDR-63-123

N64-24339

JOHNSTON, R. S.
ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS
INVOLVED IN SELECTION AND VALIDATIONS GF
ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND
APOLLO MISSIONS
A64-13517

JOLEY, R.
EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF
ANESTHETIZED DOG TO HYPOTHERMIA
A64-80049

JOLLY, R.
INTRAVENOUS UROGRAPHY IN AIRCREWS

A64-80033

JONES, D. I.
PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL
COOLING, GIVING OBSERVATIONS MADE ON RATS AND
HUMANS
A64-14995

JONES, E. M.
INTERCORRELATION OF EXERCISE, BODY COMPOSITION,
FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND
ADRENAL WEIGHT IN RAT
A64-80785

JONES, E. R.
LIGHTING REQUIREMENTS OF GENERAL CREW STATIONS FOR
MANNED SPACECRAFT
A64-10630

JONES, G. M.
NYSTAGMUS RECORDED SIMULTANEOUSLY IN THREE
ORTHOGONAL PLANES
A64-80339

SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL,
PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE
A64-80861

A64-81177

A64-81204

DISADVANTAGE OF PREDOMINANCE OF ANTICOMPENSATORY EYE MOVEMENTS DURING RAPID HORIZONTAL ROTATION OF HEAD A64-80862

JONES, P. D.
AVIDIN CONTENT OF EGG WHITES FOR VARIOUS SPECIES
OF BIRDS
N64-15802

FORMS OF SOIL BIOTIN N64-15803

JONES, R.
SURVIVAL OF EARTH MICRODRGANISMS IN SIMULATED MARS
ENVIRONMENT
NASA-CR-52841
N64-11293

BACTERIAL SURVIVAL IN SIMULATED EXTRATERRESTRIAL ENVIRONMENT
NASA-CR-53106 N64-16745

JONES, R. A.
INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC
CONTAMINANTS
N64-24615

JONES, R. D.

LOCAL REGULATION OF BLOOD FLOW IN SKELETAL MUSCLE
OF DOG

A64-81133

JONES, W. L.
EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES
A64-20698

EJECTION SEAT ACCELERATIONS AND INJURIES OF VERTEBRAL COLUMN A64-80504

FLIGHT SURGEON USE OF ANTHROPOMETRY IN ASSESSING POTENTIAL ACCOMMODATION OF PILOT IN NAVAL AIRCRAFT A64-81335

JONGBLOED, J.

MEDICAL PROBLEMS OF SPACE FLIGHT - TRAINING AND
SELECTION OF ASTRONAUTS A64-80227

JONGKEES, L. B. W.

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON
OTOLITH ORGANS OF RABBITS LYING IN LATERAL
POSITION ON PARALLEL SWING

A64-80244

CENTRALLY EVOKED NYSTAGMUS IN ANIMALS SUBJECTED TO VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS DRUG A64-80953

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF VERTIGO IN RABBIT A64-81123

JONSSON, A.

DIFFERENCES IN DISPLACEMENT OF RIBS AND COSTAL
INTERSPACES AS RELATED TO LUNG DAMAGE OF RABBIT
EXPOSED TO AIR SHOCK WAVES

A64-81063

JONSSON, B.
ELECTROMYOGRAPHIC STUDY OF HIP AND THIGH MUSCLE
FUNCTION IN ROMBERG POSITION AND STANDING AT EASE
A64-80383

JOSEPH, A.
VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT
A64-80280

JOSEPH, A. B.
MARINE SCIENCES RELATED TO AEROSPACE USES OF
NUCLEAR POWER N64-14568

JOVY, D.
HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
RESERVES OF PILOT
A64-27025

ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED,
APPLYING CRITERION BASED ON PULSE BEAT AND BODY
TEMPERATURE
A64-27027

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN

N64-10146

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753

OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035

ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER

N64-15036

ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041

STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS N64-15045

REACTION OF CIRCULATION, RESPIRATION, AND
METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH
ALTITUDE N64-15046

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

JOYNER, R. E.
HUMAN RESPONSE TO LONG-TERM, LOW-LEVEL EXPOSURE TO
ETHYLENE OXIDE A64-80511

JUKES, T. H.

INVESTIGATION OF FUNDAMENTAL NATURE OF BIOCHEMICAL
SYSTEMS IN TERRESTRIAL ORGANISMS
NASA-CR-58547
N64-28894

JUSTER, A.
TEST SCOPE FOR OPERATIONAL INTEGRITY OF SPACE SUIT
MATERIALS
A64-23246

JUSTICE, K. E.
ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL
STUDY AND STATISTICAL ANALYSIS
ASD-TDR-63-136 N64-15592

JUSTIN-BESANCON, L.
COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS,
DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108
N64-33392

JUVANCY, I.

BIOMETRICS & THE BIOLOGICAL SCIENCES

JPRS-18392

N64-11043

K

KABZA, R.
HUMAN SERUM ELECTROLYTE AND IRON CONCENTRATION
CHANGES DURING PHYSICAL EXERCISE

A64-80776

KADUSHIN, 1.

TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MANMACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT
AIAA PAPER 64-421

A64-20783

KAFIANI, K. A.
BIOCHEMICAL SELF-REGULATION MECHANISMS OF CELL CYBERNETICS N64-12528

KAGINADA, H. H.

DETERMINING HEART PARAMETERS ON BASIS OF SKIN
POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL
RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS
RM-4138-NIH
N64-26475

KAHAN, F. M.

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID
FORMED BY BACILLUS SUBTILIS INFECTED WITH
BACTERIOPHAGE SP8

N64-25880

KANNEMAN, U.

TIME-INTENSITY RELATION IN VISUAL PERCEPTION AS
FUNCTION OF OBSERVERS TASK

A64-81040

KAISER, E.
DATA REDUCTION OF BIOLOGICAL INFORMATION DURING
PROLONGED FLIGHT MISSIONS, NOTING CASE OF
ELECTROENCEPHALOGRAMS
A64-25556

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

- AKURIN, L. I.

 ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT
 ENVIRONMENT WITH RESPECT TO WORK AND REST
 CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT A64-25591
 - PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT N64-23757
- KAKUTA, M.
 VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED QUANTITATIVELY A64-80255
- KALABA, R. E.
 DETERMINING HEART PARAMETERS ON BASIS OF SKIN POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL RELATING VENTRICULAR DIPOLES TO SURFACE POTENTIALS RM-4138-NIH
- KALABYKHA, T. N.
 INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON
 BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND
 PROPIONIC ACIDS
 N64-18411
- KALASHNIKOVA+ M. M.
 REGENERATION OF RAT LIVER AFTER LOCAL X-RAY
 IRRADIATION N64 N64-12796
- BERER, J., JR.
 BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER
 EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION SICKNESS IN MICE
- KALETA, Z.

 PARTIAL STATE OF WEIGHTLESSNESS, INDUCED IN
 RABBIT BY IMMERSION IN SODIUM CHLORIDE SOLUTION
 AND EFFECT ON BLOOD CIRCULATORY SYSTEM

 A64-80 A64-80961
- RAPID ACCELERATION EFFECT ON SYMPATHICOTONIC CHARACTER OF ELECTROCARDIOGRAM IN PILOTS EJECTED FROM CATAPULTS A64-A64-80929
- KALISTRATOV, G. V.
 DISTRIBUTION AND EXCRETION OF BETA-MERCAPTOPROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF
 N64-31348
- KALMANSON. A. E.
 ELECTRON PARAMAGNETIC RESONANCE STUDY OF
 RADIOCHEMICAL EFFECTS IN CRYSTALLINE AMIND ACIDS
 - SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING BIOLOGICAL OXIDATION N64-28036
- ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS N64-27055
- KALSADA, I. N.
 TOXIC PROPERTIES OF GERMANIUM TETRACHLORIDE N64-23369
- KALYADA, T. V.
 TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY MICROWAVE IRRADIATION JPRS-23287
- AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE CONTROL HANDLING TASKS
- AMRL-TDR-64-46 N64-27433 KAMINIR. L. B.
 RADIO ELECTRONICS IN BIOLOGY
- FTD-TT-63-830/18284 KAMMERMEYER, K.
 WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE

AMRL-TDR-63-130

KAMSHILOVA, E. M.
MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA MELANOGASTER CARRIED BY VOSTOK SPACECRAFT A64-23670

- KAMSHILOVA, YE. M.
 EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX
 LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826
- KAMYSHENKO, I. D.
 PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT
- KAN, G. S.
 ORGANISM PHYSIOLOGICAL MECHANISMS FOR REGULATION
 AND PROTECTION ANIMAL STUDY N64-2340
- KANAVETS, O. L. SPACE FLIGHT EFFECT ON NONDISJUNCTION OF CHROMOSOMES IN DROSOPHILA INSECT
 - N64-11684
- KANDROR. I. S. PHYSIOLOGICAL CHANGES IN HUMAN ORGANISM DURING ACCLIMATIZATION OF NEW ARRIVALS TO ARCTIC
- KANN, H. E., JR.
 VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE **DIVIGEN EXPOSURE**
 - LIPID PEROXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN
 - VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER HIGH PRESSURE
- COLORS ON AIRCRAFT VISIBILITY OF AIRFIELD DISTANCE
- KAPITANOV, R. A.
 TELEMETRY PROBLEMS IN MEDICAL AND BIOLOGICAL JPRS-17672
 - UTILIZATION OF COMMUNICATION SYSTEMS AND TELEMETRY IN HOSPITALS JPRS-17534 N64-11004
- KAPLAN. G. IMPEDANCE PNEUMOGRAPHY FOR LONG-TERM MONITORING AS COMPARED TO OTHER PNEUMOGRAPHIC METHODS FOR HUMAN AND CHIMPANZEE STUDIES A64-8084 A64-80848
- PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES OF HUMAN SERUM RADIOALBUMIN UCL A-12-521 N64-20672
- KAPLAN, I. T.
 EYE MOVEMENTS RECORDED DURING VIGILANCE A64-80795
- ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES LACTIC DEHYDROGENASES
 - PREPARATION, SEDIMENTATION, ELECTROPHORETIC PROPERTIES, AMINO ACID COMPOSITION, IMMUNOLOGY, AND CRYSTALLIZATION OF TRIOSE PHOSPHATE DEHYDROGENASE N64-32048
- BASAL RESISTANCE LEVEL IN RATS UNDER STRESS USED AS INDEX OF AROUSAL COMPONENT OF MOTIVATION 464-80005
- KARCHAK, A.
 PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL **PHENOMENA** A64-80260
- KARIMOVA, M. M.
 SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS 464-81094

N64-21388

N64-18789

PERSONAL AUTHOR INDEX

KARNITSCHNIG, H. H.
PATHOLOGY OF LIGHT AIRCRAFT ACCIDENTS

A64-80177

KARPAVICHUS, K. I.

CANCER CHEMOTHERAPY - BIBLIOGRAPHY JPRS-23440

N64-15829

KARPINSKAYA, R. S.
STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE, AND CORRELATION BETWEEN FORMS OF MOTION & FORMS OF

JPRS-21806

N64-10269

KARPMAN. V. L.

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES FTD-TT-63-1191 N64-24324

ANALYSIS OF CARDIAC ACTIVITY BY CENTER OF GRAVITY VARIATIONS IN HUMAN THORAX - DYNAMOCARDIOGRAPH NASA-TT-F-205 N64-25206

ELECTRONIC EQUIPMENT FOR CARDIOVASCULAR DIAGNOSIS

KARPOVA, L. I.
REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN PROLONGED EXPERIMENTS A64-80042

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

PROVIDING FOOD AND WATER FOR DOGS DURING SPACE FL IGHT N64-11695

KARPOVA, N. I.

PATHOLOGICAL AND MORPHOLOGICAL CHANGES OF NERVOUS SYSTEM CAUSED BY VIBRATION N64-1078 N64-10781

KARVONEN, M. J.
MOTOR VEHICLE ACCIDENTS OF FLYING AND NONFLYING
AIR FORCE PERSONNEL AS RELATED TO SELECTION AND
A64-80 A64-80686

RADIATION DAMAGE TO OVARIES, AND ELECTRICAL STIMULATION OF HEART IN MICE - BIBLIOGRAPHY N64-10453 JPRS-18045

PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS INCLUDING SENSORY, MOTOR, VEGETATIVE AND HISTOMORPHOLOGICAL

SENSITIVITY AND REACTION CAPABILITY OF CRANIOCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF BODY POSITION

KASSEBAUM, R. G.
ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES HSR-RR-61/13-MK-X N64-10446

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR HSR-RR-62/9-MK-X N64-10447

KASYAN, I. I.

PHYSIOLOGICAL RESPONSES OF MAN UNDER CONDITIONS OF ALTERNATING OVERLOAD AND WEIGHTLESSNESS N64-10703

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER SPACE FLIGHT

RESPONSE OF ANIMAL CARDIOVASCULAR AND RESPIRATORY SYSTEMS TO HIGH ALTITUDE FLIGHT

EFFECT OF ACCELERATION STRESS & WEIGHTLESSNESS ON PHYSIOLOGICAL FUNCTIONS OF DOGS IN BALLISTIC ROCKET FLIGHTS N64-11860 PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS JPRS-23917 N64-17738

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON HUMANS N64-23738

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-23770

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE FTD-TT-64-140/184 N64-24012

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS N64-27633

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE JPRS-26994 N64-32796

KATAGIRI. S.

VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED QUANTITATIVELY A64-80255

RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

A64-25548

KATSUMI, Y. NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY PHASE A64-80257

KATZ. F. H. PLASMA 17-HYDROXYCORTICOSTEROID AND ADRENAL SECRETORY RATES OF ALDOSTERONE AND CORTISOL RELATED TO BED REST A6

SECRETORY RATES OF ALDOSTERONE AND CORTISOL MEASURED BEFORE, DURING AND AFTER BED REST A64-80922

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS SAM-TDR-63-86 N64-15742

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE SAM-TDR-63-12 N64-21101

TAXONOMY VERSUS MENTALISM IN LINGUISTICS AND THEORY OF LANGUAGE N64-32947

KATZ, M. S.
EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE

FILTERS AND STRUCTURES

NAVTRADEVCEN-IH-14 N64-28902 CHROMATID DELETIONS PRODUCED IN KB HUMAN CELL

CULTURES BY 250 KV X-RAYS AT LIQUID NITROGEN **TEMPERATURES** A64-13516

KAUFMAN, W. C.
SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY
FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS
A64-80327

KAULEN, D. R. SERUM PROPHYLAXIS AND THERAPY OF BACTERIAL INTOXICATIONS IN IRRADIATED ANIMALS N64-20946

KAVAN, E.

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN
STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES NASA-CR-59001

N64-33041

- KAVANAGH, D. A.
 VERY HIGH FREQUENCY RADIOTELEMETRY IN SIMULATED
 ANIMAL INTERIOR ENVIRONMENT, AND TRANSPARENCY OF
 HUMAN BODY TO RADIO WAVES
 SAM-TDR-63-80 N64-1664
- KAWASAKI, T.

 OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM

 A64-8024
- KAY, R. E.

 DETECTING PROTEINS IN TRACE AMOUNTS BY J-BAND
 ANALYSIS
 NASA-CR-56520
 N64-22780

DETECTION OF PROTEIN IN TRACE AMOUNTS BY J-BAND ANALYSIS
NASA-CR-56522 N64-22782

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY
PRODUCTION
NASA-CR-54051
N64-25906

- KAYE, D.

 INFECTION PREVENTION OF WOUNDS AND BURNS IN MASS
 CASUALTY SITUATIONS
 N64-30754
- KAZACHENKO, L. V.
 DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION
 FROM HEALTHY AND LEAD-POISONED ANIMALS
 JPRS-26888 N64-33854
- KAZARYAN, L. A.
 SEISMOCARDIOGRAM CONSTRUCTION FOR CARDIOVASCULAR
 STUDY OF DOGS HEART ACTIVITIES DURING SPACE FLIGHT
 N64-11706
- KAZHINSKIY, B.
 EXTRASENSORY PERCEPTION HUMAN COMMUNICATION WITH
 ANIMALS
 FTD-TT-62-1876/1
 N64-21928
- KAZYKIN, K. P.
 SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
 MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
 SPACE FLIGHT
 A64-25580
- KEATING, D. A.
 MOVEMENTS AND DISPERSION OF RESPIRED AIR OF
 IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT
 A64-80826
- KECK, G.
 HIGH ALTITUDE EFFECTS ON GROWTH AND EXISTENCE OF
 BACTERIA, NOTING SOLAR RADIATION EFFECT
- KEDROV, B. M.

 RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS EPISTEMOLOGY

 JPRS-18208

 N64-10751
- KEIDEL, W. D.
 TUNING BETWEEN CENTRAL SENSORY PATHWAYS AND SENSE
 ORGANS AUDITORY DISCRIMINATION
 N64-18831
- KEIRIM-MARKUS, I. B.
 DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD
 VOSTOK V AND VOSTOK VI SPACESHIPS
 A64-18573

MEASUREMENT OF RADIATION DOSES RECEIVED BY
COSMONAUTS IN VOSTOK III AND VOSTOK IV
SPACECRAFT FLIGHTS
N64-21642

PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732

KELLER, N. H.

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR
ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF
EFFECTS OF SIMULATED SPACE ENVIRONMENT ON
MICROORGANISMS

A64-24980

- EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-56524 N64-22785
- KELLEY, A. K., JR.
 IONIZING RADIATION EFFECT ON VISUAL PATHWAY & EYE
 OF CAT
 UCRL-11005
 N64-11097
- KELLOGG, R. H.
 ALTITUDE EFFECT ON RESPIRATORY REGULATION AND
 CHEMORECEPTOR
 A64-80454
- KELLOGG, R. S.
 MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE
 DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO
 GRAVITY MANEUVERS
 AMRL-TDR-64-47
 N64-28562
- KELLOGG, W. W.
 MAN AND MACHINE SYSTEM EVALUATION FOR SCIENTIFIC
 EXPLORATION OF SPACE
 A64-14990

ENVIRONMENTAL CONDITIONS OF MARS AND VENUS
A64-80787

KELLY, J. A.

OPERATOR ADAPTATION TO SUDDEN CHANGES IN

CONTROLLED ELEMENT GAIN AND POLARITY BASED ON

TRACKING ERROR AND RESPONSE TIME

A64-24127

SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME INVARIANT CONTROL SYSTEM A64-24833

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN
SIMPLE MANUAL CONTROL
NASA-TN-D-2255 N64-18734

- KELLY, P. M.
 LIVING NEURAL NETWORKS IN ELECTRONIC TARGET
 RECOGNITION SYSTEMS FOR MISSILE GUIDANCE
 A64-25994
- KELLY, R. J.
 INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM
 FUMES FROM FLUOROCARBON RESIN PYROLYSIS

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUOROCARBON RESIN PYROLYSIS A64-80637

- KELSEY, L. E.
 BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING
 PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION
 TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
 AD-600806
 N64-22515
- KENDALL, W. W.
 MEASUREMENT OF PHYSIOLOGIC EVAPORATIVE WATER LOSS
 CARI-63-25
 N64-29846
- KENDRICK, J. E.
 CAROTID SINUS DEPRESSOR REFLEXES OF DOG DURING
 HYPOTHERMIA A64-81062
- KENK, R.
 ABSTRACTS OF CURRENT MEDICAL RESEARCH
 N64-10621

ABSTRACTS OF CURRENT LITERATURE IN AEROSPACE MEDICINE N64-12899

- KENNEDY, J. M.
 DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS
 UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN
 EXTRATERRESTRIAL SPACE CAPSULES
 NASA-CR-53302
 N64-17766
- KENNEDY, R. S.
 HUMAN PERFORMANCE DURING TWO WEEKS IN PENSACOLA
 SLOW ROTATING ROOM
 A64-81324

CANAL SICKNESS TEST IN SLOW ROTATING ENVIRONMENT FOR PREDICTION OF SUSCEPTIBILITY TO SEASICKNESS AND AIRSICKNESS NASA-CR-55620 N64-15348

HUMAN PERFORMANCE IN ROTATING ENVIRONMENT AT THREE

REVOLUTIONS PER MINUTE NASA-CR-55622

N64-15349

MOTION SICKNESS SYMPTOMOLOGY OF LABYRINTHINE DEFECTIVE AND NORMAL HUMAN SUBJECTS DURING ZERO GRAVITY MANEUVERS
AMRL-TOR-64-47 N64-28562

N64-2

KENSHALO, D. R.
PELTIER REFRIGERATORS AS TRANSDUCERS FOR
PSYCHOPHYSICAL STUDY OF TEMPERATURE SENSE

N64-11259

KERKIS, YU. YA.

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY
OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522
N64-12068

KEROVA, N. I.

PROTEIN METABOLISM IN DOGS GIVEN TREATMENT FOR
ACUTE RADIATION SICKNESS

N64-12780

KERSLAKE, D.
ENVIRONMENTAL AND PHYSIOLOGICAL PROBLEMS
ENCOUNTERED BY MAN IN SPACE EXPLORATION

A64-12932

KESHISHIAN, J. M.

SPONTANEOUS PNEUMOTHORAX IN FLYING PERSONNEL - ITS
ETIOLOGY, PATHOLOGY, DIAGNOSIS, AND TREATMENT
A64-B0096

KESHMIRI, M.
IONIZING RADIATION EFFECT ON THIOPHOSPHATE
OXIDIZING ENZYME IN RAT LIVER - BIOCHEMISTRY

ORAL ADMINISTRATION OF SEROTONIN AND SULFUR DRUGS AND EFFECT ON RADIATION CHANGES OF SPLEEN, THYMUS GLAND, AND INTESTINE ENZYME ACTIVITIES

N64-13504

KETTEL, L. J.

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS

A64-81002

KETY, S. S.

REGIONAL BLOOD CIRCULATION OF BRAIN UNDER VARIOUS
PHYSIOLOGICAL CONDITIONS

N64-14582

KHARATYAN, A. M.
AMINO ACID COMPOSITION OF PROTEINS

N64-18524

A64-81257

KHARAUZOV, N. A.
ANIMAL STUDY FOR PHARMACOLOGICAL EFFECTS ON BRAIN
STEM FROM ADMINISTRATION OF ARECOLINE HYDROBROMIDE
AND PHENAMINE
N64-31342

KHARITONENKOV, I. G.
SEMIQUINONE FREE RADICALS IN SYSTEMS MODELLING
BIOLOGICAL OXIDATION
N64-28036

KHARITONOV, R. A.
THRESHOLDS OF SPATIAL DISCRIMINATION BY HUMAN
FINGERS
N64-25142

KHAUNINA, R. A.
IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT
BRAIN
N64-12573

KHAYLOV, K. M.
SYSTEMIC ORGANIZATION IN THEORETICAL BIOLOGY
JPRS-22228
N64-11869

JPRS-22228 N64-11869
KHAZEN, I. M.
ENHANCEMENT OF PILOT PERFORMANCE CAPACITY BY

ADEQUATE NUTRITION

EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS JPRS-23607 N64-16544

KHENOKH, M. A.
CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION
EFFECT ON ACTOMYOSIN
N64-13693

KHERSONSKAYA, R. YA.
THERAPEUTIC VALUE OF DEOXYRIBONUCLEASE IN
TREATMENT OF PATIENTS WITH ADENOVIRUS
CONJUNCTIVITIS

N64-12885

KHEYFETS, M. G.
SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND
FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN
HUMANS
JPRS-24967
N64-21783

KHEYFETS, YU. B.
BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER
IONIZING RADIATION
JPRS-18479 N64-10769

KHIDEKALI, A.
AUTOMATION IN INDUSTRY AND INSTRUMENTATION FOR
REMOTE CONTROL NAVIGATION OF SHIPS - CYBERNETICS
JPRS-22345 N64-11917

KHILKEVICH, B. G.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

KHLEBNIKOV, G.

EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE
UNDER CONDITIONS OF ACCELERATION STRESS
FTD-MT-63-20/1
N64-18665

KHOLODOV, IU. A.
MAGNETIC FIELD EFFECT ON BODY MOVEMENTS IN BIRD
A64-80872

KHOLODOV, YU. A.
EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED
REFLEXES IN SEA FISH
NASA-TT-F-189
N64-11564

CONDITIONED REFLEX TO MAGNETISM IN FISH NASA-TT-F-190 N64-12962

KHOMAZIUK, H. I.

REFLEX MECHANISM OF PERIODIC RESPIRATION IN
HYPOXIA

A64-81261

KHOMCHANOVSKIY, YE. I.

CANCER CHEMOTHERAPY - BIBLIOGRAPHY

JPRS-23440 N64-15829

KHOMSKAYA, YE. D.
PRE-MOTOR BRAIN SECTIONS IN EYE MOVEMENT CONTROL
N64-30325

KHORVAT, M.

ADVANTAGES AND DISADVANTAGES OF AUTOMATION IN STUDYING ACTIVITY OF HIGHER NERVOUS SYSTEMS
JPRS-25861

N64-27066

KHRALENKO, N. I. CYBERNETICS JPRS-23132

N64-14536

KHREBTOVICH, V. N.
METHOD OF INFLICTING BURNS ON RESPIRATORY TRACT
N64-12770

KHROMOV, B. M.

EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY
TEXTBOOK
JPRS-19278 N64-11066

KHURGIN, YA. I.

MATHEMATICAL ANALYSIS OF BIOLOGICAL DATA CYBERNETICS

N64-12516

KHVOSTOVA, V. V.
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &
DEVELOPMENT IN ACTINOMYCETES AND PLANTS

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT
N64-21644

KIANG, N. Y.-S.
AUDITORY CORTEX RESPONSE OF UNANESTHETIZED CATS TO

ACOUSTIC STIMULT

A64-27135

EVOKED RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA, AND SLEEP A64-81 A64-81027

RESPONSES OF SINGLE UNITS IN AUDITORY CORTEX TO AUDITORY STIMULI IN CATS N64-27968

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

KIDD. J. S.
MAINTENANCE OF VIGILANCE IN AN AUDITORY MONITORING TASK

A64-80203

KIENLE, G.
NONEUCLIDEAN STRUCTURE OF VISUAL SPACE EMPLOYING VISUALIZED METHODS AVAILABLE IN PROJECTIVE

HYPERBOLIC SPACE STRUCTURE COMPARED WITH EUCLIDEAN STRUCTURE OF VISUAL SPACE A64-80491

KIESDW. L.
HUMAN BODY TEMPERATURE CONTROL AND MECHANISM OF
BIOLOGICAL SYNTHESIS OF CHEMICAL COMPOUNDS
N64-22 N64-22470 NASA-CR-56293

KIKHADZE, I. I. VARIATIONS OF RNA IN GIANT CHROMOSOMES OF LARVAE DURING METAMORPHOSIS JPRS-22666 N64-13229

KIKTENKO, V. S.

COMPARATIVE EVALUATION OF BACTERIA COLLECTOR EFFECTIVENESS USING FLOW ULTRAMICROSCOPE TO DETERMINE BACTERIAL AEROSOL CONCENTRATION JPRS-23283 N64-15293

KILMER, W. L.
PROBABILISTIC AUTOMATA PROPOSED AS MODEL TO HANDLE
CIRCUIT ACTION OF RETICULAR FORMATION

A64-24821

KIM, T. S.
CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933

KIMELDORF, D. J.
NERVOUS RESPONSE OF BLIND RAT TO STIMULATION BY IONIZING RADIATION USNRDL-TR-670

KIMMEL. H. D. ADAPTATION OF GALVANIC SKIN RESPONSE UNDER REPEATED PRESENTATION OF VISUAL STIMULUS

KINURA, D. DATA FROM ANIMAL EXPERIMENTATION, HUMAN BEHAVIOR STUDIES AND PERSONAL REPORTS ON EFFECTS OF ISOLATION, SENSORY DEPRIVATION AND EXTREME HAZARD

ISOLATION AND SENSORY DEPRIVATION PHENOMENA RELATED TO NEUROPHYSIOLOGICAL DATA AND DISRUPTION OF BIOLOGICAL RHYTHMS A64-80146

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION NASA-CR-76 N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NASA-CR-58560 N64-29546

KINCAIDE, W. C.
APOLLO PORTABLE LIFE SUPPORT SYSTEM

N64-30725

N64-31175

KINCHLA, R. A. ROLE OF FEEDBACK IN PERCEPTION OF TONES WITH AND WITHOUT BACKGROUND GAUSSIAN NOISE A64-80857

KINDEL, M. K. EYE DISEASES WHICH INCAPACITATE FOR OCCUPATION REQUIRING OPERATION OF VEHICLES ON LAND, SEA, OR IN AIR A64-81326

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR DESIGN OF TACTILE COMMUNICATION DEVICE ASD-TDR-63-732 N64-14689

HUMAN ENGINEERING PROBLEMS IN LIGHT ATTACK AIRCRAFT DESIGN INCLUDING PILOT EFFICIENCY, COMFORT, SAFETY, SURVIVAL AND COMBAT EFFECTIVENESS A64-24716

KINNARD, W. J.
RESERPINE AND CHLORPROMAZINE - EFFECT ON RATS
SUBJECTED TO EXPERIMENTAL STRESS

A64-81132

N64-27493

KINNEN, E.

MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TO-BEAT DIRECT CURRENT VOLTAGE SAM-TDR-63-69 N64-11773

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE SAM-TDR-63-99

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION

SAM-TDR-63-100 N64-17312 IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC

CAGE IMPEDANCE MEASUREMENTS SAM-TDR-64-15 N64-21597

TISSUE RESISTIVITY IN VIVO AND TRANSTHURACIC IMPEDANCE SAM-TDR-64-5 N64-21803

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART OUTPUT

SAM-TDR-64-23

KINNEY, R. V.
REMOTE CONTROL OF LUNAR SURFACE VEHICLES FROM A64-23297

KINOSHITA, F.

INHIBITION BY X-RAYS & CHEMICAL AGENTS OF ENZYMES WHICH CATALYZE METABOLISM OF FOREIGN CHEMICALS IN MAMMALIAN TISSUE - TOXICOLOGY & IONIZING RADIATION N64-13502

KINSEY, J. L. ATMOSPHERIC CONTAMINATION IN NUCLEAR SUBMARINES N64-24607

KIRCHHOFF, H. W.
CIRCULATORY AND RESPIRATORY EFFECTS OF DIFFERENT DXYGEN CONCENTRATIONS

MASTER EXERCISE TOLERANCE TEST IN DIAGNOSIS AND PROGNOSIS OF REDUCED CORONARY CIRCULATION A64-80520

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING A64-80865 AIRCREM

CARDIOVASCULAR AND RESPIRATORY FUNCTION TESTING UNDER HYPOXIA - METHOD DEVELOPED FOR FLIGHT FITNESS EXAMINATION A6 A64-81233

KIRIAKOV, KR.

EPILEPTIC CHARACTER OF ELECTROENCEPHALOGRAM AFTER MENTAL FATIGUE - DISTURBANCE IN CORTICAL AND SUBCORTICAL REGION IN RAILROAD PERSONNEL

A64-80937

KIRIUSHINA, I. N. CONCENTRATION OF CARBON DIOXIDE, HYPERCAPNIA AND EFFECT ON CORONARY CIRCULATION IN DOG

A64-80892

- EFFECT OF INHIBITORS ON CARBON-REDUCTION CYCLE IN CHIORELLA
- KIRKPATRICK, M. LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL COMPONENT A64-81029
- VOCATIONAL INTERESTS OF AIRLINE PILOT CANDIDATES
- KISELEY, L. L.
 INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS JPRS-24086 N64-17976
- KISHKO, YA. G.
 COLLECTING MICROORGANISMS IN UPPER ATMOSPHERE AD-428703 N64-19877
- KISOLEV, P. N.
 REMOTE IMMUNOLOGICAL CONSEQUENCES OF EFFECT OF IONIZING RADIATION N64-30246
- THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS WITH REGARD TO THEIR DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT CONTROL A64-22819

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS 464-80692

- PSYCHOPHYSIOLOGICAL CORRELATION AND ANALYSIS FOR MAN-MACHINE SYSTEMS
- KITAEV-SMYK, L. A.
 VEGETATIVE AND PSYCHIC RESPONSE EFFECTS ON HUMAN TOLERANCE TO WEIGHTLESSNESS A64-25582
- KITAHARA. M. VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH REPEATED MOTIONS A64-80245

EQUILIBRIUM FUNCTION ANALYSIS THROUGH NEWLY DEVELOPED STRAIN-GAGE-TYPE INSTRUMENTS

A64-80253

KITAYEV-SMYK, L. A.
HUMAN REACTION TO WEIGHTLESSNESS

N64-23748

- CYTOLOGICAL EXAMINATION OF RADIOSENSITIVITY OF BONE MARROW & LYMPH NODE CELLS IN DIFFERENT SPECIES OF IRRADIATED MAMMALS JPRS-22778
- KITSOVSKHIH, 1. H.
 CENTIMETER WAVE RADIATION OF VARYING INTENSITY AND EFFECT ON PERIPHERAL BLOOD AND HEMATOPOIETIC A64-81211
- KJELLBERG, R. N.
 BIOLOGICAL EFFECTS OF HIGH ENERGY PROTON
 IRRADIATION OF HUMANS AND OTHER ANIMALS NASA-CR-5887 N64-33195
- KJELLMER. I. LYMPH FLOW AND BLOOD VOLUME CHANGES IN EXERCISING SKELETAL MUSCLE OF CAT

A64-80958

FLOW AND PROTEIN CONTENT OF LYMPH IN RESTING AND EXERCISING SKELETAL MUSCLE OF CAT A64-80985

KLAIN, G. J. METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS EXPOSED TO COLD TEMPERATURES AAL-TDR-63-33 N64-13632

- KLANKE, P. PRESSURIZED SUITS FOR AIRCRAFT ENVIRONMENT CONTROL FTD-TT-62-1424/16364
- RELATION OF CYBERNETICS TO BIOLOGY, MEDICINE, ECONOMICS, AND ENGINEERING JPRS-22931
- KLAUS, G.
 CYBERNETICS AND AUTOMATION IN TERMS OF PRODUCTION PROCESSES
- KLECZEK, J.
 BASIC CONDITIONS FOR THE EXISTENCE OF LIFE IN THE UNIVERSE, AND ITS PROBABLE OCCURRENCE
 A64-11419

- KLEIN, K. E.
 HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
 RESERVES OF PILOT
 A64-27 464-27025
 - ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED,
 APPLYING CRITERION BASED ON PULSE BEAT AND BODY
 TEMPERATURE A64-27 A64-27027
 - ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN N64-10146

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753

- OXYGEN DEFICIENCY INDEX FOR PILOT SENSITIVITY DETERMINATIONS N64-15035
- ADAPTATION OF PILOT STRESS-SENSITIVITY TO OXYGEN DEFICIENCY IN LOW PRESSURE CHAMBER
- ANTIEMETICS, TRANQUILIZERS, SEDATIVES, AND ANALEPTICS INFLUENCE ON PILOT PERFORMANCE N64-15041
- STIMULATION OF ORGANISM METABOLIC PROCESSES UNDER OXYGEN DEFICIENCY, MUSCULAR WORK, HEAT, COLD, OR ACCELERATION STRESS N64-15045
- REACTION OF CIRCULATION, RESPIRATION, AND METABOLIC FUNCTIONS TO CHANGING CLIMATE AT HIGH N64-15046
- HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410
- VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE
 - A64-80898

N64-30785

- KLEINSCHMIDT, A. K.
 RING STRUCTURE OF SINGLE STRAND DEDXYRIBONUCLEIC
 ACID SHOWN BY ELECTRON MICROSCOPY
- KLEITMAN, N.
 PHYSIOLOGY OF SLEEP-WAKEFULNESS CYCLE AND RELATED PHENOMENA A64-80186
- KLEMENT, A. W., JR.
 BIBLIOGRAPHY ON ATOMIC RADIATION EFFECTS
 TID-3909 /SUPPL. 2/ N64-33138
- KLEMM, F. K.
 INSENSIBLE WEIGHT LOSS OF CLOTHED RESTING SUBJECTS
 IN COMFORT ZONE TEMPERATURES A64-80118
- TRANSMISSION QUALITY DEGRADATION IN TELEPHONE COMMUNICATIONS BY TIME DELAY AND ECHO SUPPRESSORS A64-10566
- KLEMPARSKAYA, N. N. MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF

SPACE FLIGHT N64-11670

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION

FTD-TT-63-933/162 N64-26722

SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED N64-30244 ANTMALS

SPACE MENUS DEVELOPED FOR PROJECTS MERCURY AND GENINI A64-80397

KLIMENTOV, IU. F.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT A64-25580

KLIMKOVH-DEUTSCHOVA, E.
CHRONIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS
CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTROENCEPHALOGRAM IN MAN A64-80749

KLINGBERG, C. L. FACTORS AFFECTING PHOTOGRAPHIC CHANGE DISCRIMINATION N64-10533

ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS RADC-TDR-64-144 N64-33536

KLISHOV, A. A.
DEVELOPMENT OF SYNAPSES AND CONNECTIONS OF NERVOUS SYSTEM WITH SOMATIC MUSCULAR SYSTEM JPRS-21415 N64-10595

KLOCKE, R. A. DETERMINATION OF PERFUSION & PERFUSION-VENTILATION RATIO OF LUNG N64-17944

GAS TRANSPORT ACROSS SKIN IN MAN AND EFFECT OF AMBIENT TEMPERATURE ON TRANSFER RATE

N64-17949

KLONGLAN. G. E. SOCIOLOGICAL SURVEY OF CIVIL DEFENSE TECHNIQUES -PUBLIC FALLOUT SHELTERS AD-603125 N64-32529

KLOPPING, J. C.
ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN SUBARCTIC SURVIVAL SITUATIONS A64-80167

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS AAL-TDR-63-16 N64-30975

KLOSOVSKII, B. N. STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN -NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, & CEREBROSPINAL FLUID IPST-990 N64-22203

BLOOD CIRCULATION IN BRAIN OTS-63-11171

N64-26351

A64-80213

KLYATSKIN. I. G. THEORETICAL TRAINING METHODS FOR RADIO ENGINEERS JPRS-19999 N64-10592

KLYUSHKINA. N. S. LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION N64-124

KNAUF, G. M.
SPACE MEDICINE IN THE MANNED SPACE FLIGHT PROGRAM OF NASA

KNEPTON, J. C., JR.
STRONG MAGNETIC FIELDS EFFECT ON ELECTROCARDIOGRAMS OF SQUIRREL MONKEYS /SAIMIRI
SCIUREUS/, NOTING HEART RATE A64-27598

INFLUENCE OF STRONG MAGNETIC FIELDS ON BIOLOGICAL PROCESSES IN MONKEYS NASA-CR-56886 N64-27890 KNIEP. F. ELECTROCARDIOGRAPHIC EXAMINATION OF EFFECTS OF AIR AND SPACE FLIGHT ACCELERATIONS ON HUMAN CIRCULATORY SYSTEM DVL-259 N64-10236

KNIGHT, G. B. LATENT IMAGE FADING IN RADIATION MONITORING FILMS DURING STORAGE BEFORE DEVELOPMENT AECL-1872

KNIPE, R.
BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MANMACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER AEDC-TDR-63-256

KNIZHNIKOV, V. A.
CALCIUM AND PHOSPHORUS DIETARY SUPPLEMENT AS
MEANS OF REDUCING STRONTIUM-90 ACCUMULATION IN
SKELETAL BONES OF RATS
N64-1. N64-12444

PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS INCLUDING DEVICES FOR MEASURING CONCENTRATION AND MOBILITY 464-24167

HUMAN OPERATOR ADAPTATION TO DISCRETE AND CONTINUOUS TIME VARIATIONS IN CONTROL SYSTEM

MATHEMATICAL MODEL OF PERFORMANCE OF HUMAN OPERATOR IN VISUAL-MANUAL TRACKING SITUATION TR-EE64-15 N64-30018

KNUTH, E. L.
HIGH-SPEED HIGH-INTENSITY MOLECULAR BEAM NASA-CR-52865

KOBERNIK, A. P.
ELECTRODE ATTACHMENT TECHNIQUES FOR EXPERIMENTS IN
ELECTROPHYSIOLOGY OF NERVOUS SYSTEM N64-31546

KOBLENTS-NIDSHKE, A. I. PHONOCARDIOGRAPH FOR RECORDING HEART SOUND FTD-TT-63-1193/16264

CARDIOVASCULAR RESPONSE IN MAN TO HIGH AMBIENT TEMPERATURE AND HUMIDITY A64-80135

RELATIONSHIP OF VESTIBULAR TEST RESPONSES, ESPECIALLY THOSE WHICH ARE ELECTRONYSTAMOGRAPHIC, TO PILOT PERFORMANCE DURING FLIGHT TRAINING A64-12380

CONTINUOUS CULTURE TECHNIQUE FOR GROWTH OF ALGA, CHLORELLA PYRENOIDOSA 7-11-05 AS SOURCE OF SPACE FOOD A64-80466

KOCHETYGOV, N. I.

REMOVAL OF LARGE AREA OF SKIN DUE TO THERMAL
RADIATION INJURY
N64 N64-10008

KODAMA, A. M.
BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT,
METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND
HORMONE TREATED HAMSTER
A64-8 A64-80991

KODOCHIGOV, P. N.
RADIATION EXPOSURE CONTROL METHODS AND RADIOACTIVE MATERIAL DOSAGES JPRS-18522 N64-10575

KOEPCHEN, H. P. ELECTROMECHANICAL METHOD FOR CONTINUOUS REGISTRATION OF ACTION POTENTIALS AND FREQUENCY SUITABLE FOR SYNCHRONOUS RECORDING WITH OTHER BIOLOGICAL VARIABLES A64-80674

STERILIZATION OF SPACE PROBE COMPONENTS NASA-CR-56474 N64-23019

STERILIZATION OF SPACE PROBE COMPONENTS

NASA-CR-58284 N64-28228

DRY HEAT STERILIZATION OF SPACE PROBES -BIOLOGICAL, CHEMICAL, AND PHYSICAL FACTORS
INFLUENCING EFFECTIVENESS NASA-CR-58285 N64-28764

KOGAN, A. B. BRAIN ACTIVITY ANALYSIS BY INFORMATION SYNTHESIS
OBTAINED BY PHYSIOLOGICAL, BIOCHEMICAL, AND
STRUCTURAL-MORPHOLOGICAL TECHNIQUES JPRS-17717

KOGAN, A. I.
HUMAN SKIN REACTION TO ACUTE LOCAL EXPOSURE TO N64-12784 RADIATION

KOGANOVSKAIA, M. M.
CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW A64-80 464-80868

KOHLER, W. FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER GRADED PHYSICAL STRESS A64-81327

KOIKE, Y.
NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY A64-80257 PHASE

KOIZUMI, OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM

A64-80241

N64-13199 PHOTOSYNTHETIC RESEARCH - PHOTOREACTIVATION, OXYGEN EXCHANGE, PHOSPHORYLATION AND DIFFERENCE

SPECTROSCOPY NASA-CR-59204 N64-33211

ROLE OF EYE MOVEMENTS IN SPATIAL VISION

PHOTOSYNTHETIC ELECTRON TRANSPORT

N64-25138

KOLCHIN, S. P.
STIMULATION AND INHIBITION OF RODENT CEREBRAL CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE ACCEL ERATIONS 464-25600

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

KOLCHINSKAIA, A. Z.
AGE FACTOR IN ADAPTATION OF HUMAN TO HYPOXIA A64-81247

ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO HYPOXIA A64-81258

KOLDER. HYPOXIC EFFECT ON SIMULTANEOUS VISUAL CONTRAST IN A64-80206

KOLERS, P. A.
VISUAL ILLUSIONS OF MOTION USING FLASHING LIGHTS
AND THEIR ASSISTANCE IN CLARIFYING NEURAL 464-26707

KOLESOV, V. I.

CHANGES OF MORPHOLOGICAL & FUNCTIONAL PROPERTIES

OF BLOOD & HEMODYNAMICS DURING USE OF EXTRACORPORAL CIRCULATION SYSTEMS JPRS-22914 N64-14133

KOLLAR, E. STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS RESPONSIVE INDOLE SUBSTANCE A64-80675

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN A64-81005 KOLMAN, E. CYBERNETICS - AUTOMATONS, COMPUTERS, AUTOMATIC CONTROL JPRS-26201

KOLMOGOROV, A. N.
CYBERNETICS AND AUTOMATION - HIGHER NERVOUS
ACTIVITY OF MIND AS MODEL FOR COMPLEX MACHINES FTD-TT-63-765/1

KOLOSOV, A. A.
ULTRASONIC DEVICE FOR REMOVAL OF DENTAL CALCULUS JPRS-21998 N64-10390

KOLOTIYENKO, D. I. BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N6 N64-10009

KOMAROVA, A. A.
TECHNIQUES AND METHODS OF CONDUCTING PHYSIOTHERAPEUTIC PROCEDURES JPRS-21725

N64-10050

KOMENDANTOV, D. G. PREVENTION AND TREATMENT OF MOTION SICKNESS FTD-TT-63-287/164

PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS

KOMOLOVA, G. S.
STIMULATING EFFECT OF HIGH FREQUENCY ULTRASONICS
N64-329 ON YEAST CELL REPRODUCTION

BIOELECTRIC ACTIVITY OF VISUAL AND PARIETAL REGIONS OF CEREBRAL CORTEX STUDY BY X-RAY N64-22646 FTD-TT-63-231

KONDRATEVA, I. I.

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY
SEALED CABIN WITH REFERENCE TO AIR PURIFICATION
A64-2558 A64-25589

KONDRATIEV, I. I.

MARTIAN CONDITIONS SIMULATED FROM ASTROPHYSICAL
DATA FOR MICROBIOLOGICAL INVESTIGATIONS

KONDRATYEV, YU. I. PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL

LITERATURE SURVEY - USE OF UNICELLULAR ALGAE FOR HUMAN NUTRITION

KONDRATYEVA, I. I.
TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED
IN AIRTIGHT CHAMBER N64-23755

KONDRATYEVA, YE. N.
PURPLE SULFUR, PURPLE NONSULFUR, AND GREEN SULFUR
PHOTOSYNTHESIZING BACTERIA N64-18975 JPRS-24319

EFFECT OF LIGHT INTENSITY ON USE OF CARBON DIOXIDE AND ORGANIC COMPOUNDS DURING PHOTOSYNTHESIS OF CHLOROPSEUDOMONAS ETHYLICUM N64-23433

KONECCI, E. B.
NECESSITY OF INTEGRATING MAN-MACHINE RELATIONSHIPS PROPERLY INTO ADVANCED AEROSPACE SYSTEMS

LIFE SUPPORT SUBSYSTEMS CONSIDERING FOOD, WATER, WASTE, ATMOSPHERIC AND THERMAL CONTROLS

CLOSED ENVIRONMENT LIFE SUPPORT SYSTEMS DEPENDENT ON PROPULSION SYSTEMS AND MISSION REQUIREMENTS A64-24402

HUMAN FACTORS ENGINEERING AS APPLIED TO AEROSPACE PROGRAM

ECOLOGICAL SYSTEMS IN SPACE VEHICLES CONTRASTED WITH THOSE IN PERMANENT OR SEMIPERMANENT LUNAR OR PLANETARY BASES A64-80480 A64-80486



LIFE SUPPORT SYSTEMS FOR FUTURE ORBITAL AND
EXPLORATORY MISSIONS FOR PERIODS UP TO A YEAR
A64-80563

BIOTECHNOLOGY AND HUMAN RESEARCH PROGRAM OF NASA — BIOASTRONAUTICS A63-10208 N64-10302

SPACE PROGRAM, HUMAN ENGINEERING, AND MEDICAL RESEARCH N64-11516

SPACE SYSTEM DESIGN OPTIMIZATION BASED ON HUMAN REQUIREMENTS DURING ACCELERATION

N64-11808

KONEY, S. V.
MIGRATION OF ENERGY BETWEEN TRYPTOPHAN RADICALS
IN PROTEIN MACROMOLECULE
JPRS-23991
N64-18318

LUMINESCENCE CAUSED BY PROTEIN COMPONENT OF RAT LIVER CELLS UNDER ULTRAVIOLET RAY EXCITATION JPRS-24605 N64-20232

KONIC, V.

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY
MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD

A444-800E4

KONIKOFF, J. J.
ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS
IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT

EFFECT OF MAGNETIC FIELDS ON GROWTH OF CHLORELLA PYRENOIDOSA A64-80866

CLOSED ECOLOGICAL SYSTEMS FOR MATER RECOVERY & WASTE UTILIZATION DURING MANNED SPACE FLIGHT R63SD83 N64-33604

KONIN, P. M.
ELECTRONICS AND INDUSTRIAL SAFETY
FTD-TT-63-1200/164

N64-22160

KONOPKIN, O. A.

SPEED OF VISUAL SIGNAL PRESENTATION AND EFFECT ON
VELUCITY AND ACCURACY OF RESPONSE

KONRADI, G. P.
MODERATE HYPOXIC EFFECT ON THRESHOLD OF MOTOR
CENTER ACTIVITY OF CEREBRAL CORTEX AND SENSITIVITY
TO STIMULANT DRUG
A64-81252

KONSTANTINOV, A. I.

MECHANISMS OF SPATIAL ORIENTATION IN BATS
JPRS-27285

N64-33974

KONSTANTINOV, V. A.

CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE
HYPOTHERMIA PROCESSES
JPRS-24504

N64-20012

KONSTANTINOVA, N. M.
TEMPERATURE EFFECT ON PROTECTIVE ACTION OF
CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL
CULTURES
A64-80964

CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906

KONSTAS, K. A.

NOISE STRESS AS CAUSE OF DECREASED ARTERIAL

PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION
IN MAN

A64-80952

KONZETT, H.

EMOTIONAL STRESS EFFECT ON BLOOD CIRCULATION OF
EXTREMITIES IN MAN AND ITS SUPPRESSION BY DRUGS
WITH CENTRAL NERVOUS ACTION

A64-8065

ROOPERSTEIN, S.

BRADYKININ AND ANTAGONISTS /AMINOPYRINE AND OTHER
EXPERIMENTAL DRUGS/ AS RELATED TO DECOMPRESSION
SICKNESS IN MICE

A64-8068

KOPAEV, IU. N.
INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION

STRESS IN VENTRODORSAL DIRECTION AND RELATION TO VASCULAR AND PARENCHYMAL ELEMENTS

464-25598

KOPANEY, V. I.
PHYSIOLOGICAL EFFECTS OF WEIGHTLESSNESS INCLUDING
SENSORY, MOTOR, VEGETATIVE AND HISTOMORPHOLOGICAL
VARIATIONS
A64-25572

STATOKINETIC STIMULI EFFECT ON FUNCTIONS OF HUMAN ORGANISMS A64-25594

PREVENTION AND TREATMENT OF MOTION SICKNESS FTD-TT-63-287/184 N64-16418

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-17738

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON HUMANS N64-23738

EFFECT OF STATOKINETIC STIMULI ON HUMAN BODY FUNCTIONS N64-23760

AEROSPACE MEDICINE - WEIGHTLESSNESS AND ARTIFICIAL GRAVITY EFFECTS ON PLANTS, ANIMALS, AND HUMAN PERFORMANCE FTD-TT-64-140/184 N64-24012

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632

KOPAYEV, YU. N.
HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL
ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764

KOPEIKIN, V. I.

ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID
PROPERTIES OF HUMAN SERUM

A64-80360

KOPYEV, V. YA.

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY
THEORY N64-16353

KOPYTOVSKAYA, L. P.
ROLE OF HYPOPHYSEAL-ADRENAL SYSTEM IN
IMMUNOLOGICAL AND INFECTION PROCESSES

N64-17168

KORCHAK, L. I.

EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY

CHANGES OF THIOL GROUPS IN LIVER OF X-RAY

IRRADIATED MICE

JPRS-22125

N64-11359

KORESHKOV, A. A.

EFFECTS OF SPACE ENVIRONMENT CONDITIONS ON
MAN — SELECTION & TRAINING OF ASTRONAUTS, AND
NUTRITION PROBLEMS
JPRS-21586
N64-10197

KORIAGIN, A. P.
NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP
A64-80535

KORNACKER, K.

PROCESS OF CORRECTLY SIGNALLING LOCATION OF
STIMULUS TO CENTRAL NERVOUS SYSTEM

N64-18833

KORNYEY, S.

VULNERABILITY OF CENTRAL NERVOUS SYSTEM TO CARBON
MONOXIDE, CYANIDE, AND OTHER POISONING

N64-14595

KOROLEVA, L. V.
STRUCTURAL CHANGES IN VISUAL ANALYZER OF MONKEYS
AFTER EXTIRPATION OF CERVICAL LOBES
JPRS-24800 N64-2104:

KOROTAEV. M. M.
TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING
FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS
A64-25588

KOROTAYEY, M. M.
TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA

PERSONAL AUTHOR INDEX

N64-23754

KOROTKOVA, V. P.
RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION
JPRS-24817 N64-21729

KORSHUNOVA, V. S.

OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS,
NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND
STRUCTURE
A64-25602

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS

N64-23768

KORYUKAYEV, YU. S.
VIBRATION STIMULUS TEST OF NEUROMUSCULAR, CENTRAL
NERVOUS AND CARDIOVASCULAR SYSTEMS
N64-10782

KORZHUEV. P. A.
HIGH ALTITUDE EFFECT ON HEMATOLOGICAL DATA IN
MOUNTAIN SHEEP AND GOATS A64-81269

KOSICH, R. J.
ADAPTIVE CONTROLLER-EQUIPMENT MODULE - HUMAN
CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND
CONTROLS FOR AIR TRAFFIC REGULATION

N64-13005

KOSLOV, S.

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT
DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76
N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION N64-29546

KOSMARSKAYA, E. N.
STRUCTURE AND FUNCTIONS OF COMPONENTS OF BRAIN NEURONS, VASCULAR CAPILLARY NETWORK, NEUROGLIA, &
CEREBROSPINAL FLUID
IPST-990
N64-22203

KOSSLER, F.
RESPIRATION AND PHOTOSYNTHESIS OF CHLORELLA IN
CLOSED ECOLOGICAL SYSTEM WITH AND WITHOUT GAMMA
RAY IRRADIATION
A64-8100

KOSTANDOV, E. A.
EFFECTS OF ATROPINE ON REFLEXES OF SCHIZOPHRENIA
PATIENTS N64-31460

KOSTENKO, O. R.
CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT
SIMULATED HIGH ALTITUDE A64-81249

KOSTROMINA, A. P. KIDNEY FUNCTION AT HIGH ALTITUDE IN DOG

A64-81278

KOSTYLEVA, N. YE.

AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE
HAVING DISCONTINUOUS SWITCHING FUNCTION
N64-24706

KOSTYUK, P. G.
NEUROPHYSIOLOGY - MICROELECTRODE TAPPING FOR
BIOELECTRIC MEASUREMENTS OF HUMAN MOTOR NEURONS
N64-30240

KOTELNIKOVA, A.
RESPIRATION AND ENERGY TRANSFORMATION IN LIVING
ORGANISMS N64-10797

KOTOVSKAYA, A. R.
BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED
OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING
SPACE FLIGHT N64-11696

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

N64-11699

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE FLIGHTS

JPRS-26994

N64-32796

KOTOVSKII, E. F.
INTERNAL ORGAN CHANGES IN DOGS UNDER ACCELERATION
STRESS IN VENTRODORSAL DIRECTION AND RELATION TO
VASCULAR AND PARENCHYMAL ELEMENTS

A64~25598

KOTOVSKIY, YE. F.
HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL
ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES
N64-23764

KOTOVSKY, K.

PSYCHOPHYSICAL EXPERIMENTS ON TACTILE STIMULATION
BY SMALL AIR JETS TO DETERMINE PARAMETERS FOR
DESIGN OF TACTILE COMMUNICATION DEVICE
ASD-TDR-63-732
N64-14689

KOTS, Y. M.
HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING
FIXED POSITION
JPRS-24606
N64-21826

KOTYRLO, J. K.
PERCEPTION OF SIZE OF OBJECT IN SPATIAL
ORIENTATION OF PRESCHOOL CHILDREN

N64-25146

KOUTRAS, D. A.
TOTAL FASTING EFFECT ON IODINE METABOLISM IN MAN
A64-80607

KOVALENKO, E. A.
POLAROGRAPHIC METHOD FOR STUDY OF GXYGEN
SATURATION OF BRAIN TISSUE IN DOG

A64-81254

OXYGEN SATURATION IN BRAIN TISSUE IN DOG INHALING VARIOUS GASEOUS MIXTURES A64~81255

KOVALENKO, YE. A.

BRAIN OXYGEN TENSION IN DOGS DURING POSITIVE,
NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80043

OXYGENATION OF BRAIN TISSUE IN DOG DURING BREATHING OF VARIOUS CONCENTRATIONS OF CARBON DIOXIDE AND OXYGEN A64-80793

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING OXYGEN JPRS-21984 N64-10388

BIOÉLECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN
TENSION IN BRAIN TISSUE
FTD-TT-63-1215/18284 N64-22665

POLAROGRAPHIC METHOD OF DETERMINATION OF OXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/162 N64-29278

KOVALEY, YE. YE.

CALCULATION OF ABSORPTION RATE OF ELECTRONS IN
ATOMIC OUTER ENERGY LEVELS
JPRS-24099

N64-17977

KOVALEVSKIY, K. L.

RADIOSENSITIVITY OF MICE AFTER SPLENECTOMY AND
APPLICATION OF HOMOGENATE OF SPLEEN TISSUE IN
CHRONIC RADIATION SICKNESS
N64-30247

KOVALOVA, Y. A.
CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION
EFFECT ON ACTOMYOSIN N64-13693

KOVALSKIY, V. V.
GEOCHEMICAL ECOLOGY OF INTERRELATIONSHIPS OF
LIVING ORGANISMS WITH ENVIRONMENTAL FACTORS
JPRS-24978
N64-21481



KOVHEVNIKOV, V. A. ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS JPRS-23590

N64-16668

KOVIT, B.

ADAPTATION TO SPACE FLIGHT CONDITIONS - EFFECTS
AND COUNTERMEASURES TO WEIGHTLESSNESS AND OTHER PHYSICAL AND PSYCHOLOGICAL STRESSES

464-80638

KOVROV, B. G. AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING TRANSITION PROCESSES DURING GROWTH OF CULTURES A64-25615

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

KOVTUNOVICH, L. G. SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION JPRS-18020 N64-11023

KOWALSKI, L. CHRONIC HIGH PRESSURE OXYGEN TOXICITY EFFECT ON A64-22058

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO OXYGEN AT HIGH PRESSURE

864-80629

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC **OXYGEN POISONING** NADC-MA-6324 N64-15363

KOWALSKI. N. SEMICIRCULAR CANAL DYNAMICS COMPARED IN ROLL, PITCH, AND YAW DURING ROTATIONAL STIMULI EXPOSURE A64-R0861

TELEMETERED HEART RECORD FROM GYMNASTS DURING ROPE CLIMBING

KOZAROVITSKII, L. B.
ELECTRODERMAL SKIN RESPONSE TO FATIGUE IN AIRLINE DISPATCHER A64-80873

KOZHEVNIKOV, V. A. ELECTRIC RECORDING PROCEDURE FOR EXAMINING ARTICULATION MOTIONS IN SPEECH IN ESTABLISHMENT OF AUTOMATIC SPEECH RECOGNITION SYSTEM

PHYSIOLOGICAL STUDIES OF SPEECH PROCESS FOR CONSTRUCTING AUTOMATIC SPEECH RECOGNITION SYSTEMS N64-23767

BIOELECTRIC RECORDING OF NERVOUS SYSTEM RESPONSES FTD-TT-63-1194/18284

KOZINER. V. B. RESTORATION OF PLASMA PROTEIN FRACTIONS AFTER BLOOD LOSS & INFUSION WITH POLYGLUCIN N64-18521

KOZLOV, V. A.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY A64-25585

KOZLOV, V. M.
BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF
AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM FTD-TT-63-578/1&2

KOZLOV, YU. P.
INHIBITION AND ENHANCEMENT OF RADIATION EFFECTS ON
BIOLOGICAL SYSTEMS WITH AMIDES OF ACRYLIC AND PROPIONIC ACIDS

KOZUBOVSKIY, S. F.
STRUCTURE AND USES OF SIMPLE AND SEQUENTIALLY
FUNCTIONING PERCEPTRONS - COMPUTER PROGRAM
N64-N64-11534 KOZUMPLIK, I.
MEDICAL RADIO TELEMETRY AND ELECTRONICS JPRS-22551 N64-12356

SPECTRAL EVIDENCE OF SNOW IN MARTIAN ATMOSPHERE A64-81084

KRAFT, C. L. FACTORS AFFECTING PHOTOGRAPHIC CHANGE N64-10533

ACCURACY OF TARGET RECOGNITION BY VISUAL PHOTOGRAPH INTERPRETATION OF OBLIQUE FORMS RADC-TDR-64-144 N64-33536

KRAJINA, Z. BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD

KRAMER, J. H.
STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA
FOR SIZING OF PROTECTIVE CLOTHING AMRL-TDR-64-66 N64-31842

KRASILNIKOV, I. G. ELECTROGASTROGRAPHIC ANALYSIS OF GASTROINTESTINAL ACTIVITY OF STOMACH DURING DIGESTION JPRS-21925 N64-10850

KRASILNIKOV, YU. I.
PLETHYSMOGRAPHY OF HUMAN VASCULAR SYSTEM RESPONSE
TO COLD STIMULUS IN NOSE CAVITY

KRASNOPEVTSEVA, O. S.
PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS

KRASNOVA, A. F.
PHYSICAL EXERCISE AND EFFECT ON BLOOD SERUM
PROTEIN FRACTIONS IN ELDERLY PERSONS

A64-81332

KRASNOVSKIY, A. A.
PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING
BACTERIA - LUMINESCENT SPECTRA FTD-TT-63-867/162

TEMPERATURE DEPENDENCE OF BACTERIOVIRIDIN LUMINESCENT INTENSITY IN PHOTOSYNTHETIC BACTERIA JPRS-23054 N64-14529

BIOMECHANICS OF HUMAN SPINAL COLUMN AT LOW FREQUENCY VIBRATIONS A64-80027

KRAVCHENKO. A. T. FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS JPRS-23678 N64-16694

KRAYEVSKIY, M. A.
RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE JPRS-26921 N64-31556

KRAYEVSKIY, N. A.
ACUTE RADIATION SICKNESS IN MAN FTD-TT-63-558/1&2 N64-21645

NEURONS & NERVE NETWORKS, INFORMATION CODING & STORAGE NETWORKS, AND ANALYZERS & PERCEPTORS -CYBERNETICS JPRS-18372 N64-10759

EBS, G. N., JR. RADIATION HAZARD TO PERSONNEL DUE TO TRITIUM DIFFUSION IN GLOVE BOX OPERATIONS LMS-2962 N64-13165

KREBS, J. S.
BLOOD PRESSURE MEASUREMENTS OF OXYGEN UPTAKE AND RESPIRATORY RATE OF RAT LIVER - HYPOXIA N64-14602

PERSONAL AUTHOR INDEX

KREIFELDT, J. G.	
KREIFELDT, J. G.	
LOOKING AHEAD MECHANISMS TO CHARACTERIZE	
OPERATORS SENSING AND USING FUTURE IMPUT FORCED PACE CONTROL TASKS	DATA IN A64-24839
KRETCHMER, H. W.	
HYPOTHERMIC EFFECT ON CORTEX AND BRAIN ST	
RELAXANT CAT UNDER ACTION OF BARBITUATES MUSCLE	A64-80365
KREUZER, F.	
ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALT	
SEA LEVEL	A64-80168
JEN LEVEL	A04 00100
KRHSYNAI, I.	
CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCU	
AND OXYGEN CONSUMPTION IN MUSCLE OF EXTRE	A64-81209
TRA AND DOS	HO4 01207
KRICHEVSKAIA, E. I.	
TESTS ON WHITE RATS TO INVESTIGATE RADIA	
PROTECTIVE EFFECT OF HISTAMINE WHILE BODY INFLUENCED BY BIOGEN AMINES	r 15 A64-27581
INFLUENCED BY BIUGEN AMINES	A04-21301
KRISE, G. M.	
RESTORATION OF ALBINO RAT HEMATOPOIETIC :	
AFTER GAMMA RADIATION EXPOSURE	N64-25309
CYCLIC RADIATION DOSE RATE EFFECT ON RAT	
HEMATOPOIETIC SYSTEM	N64-25310
EFFECTS OF CONTINUOUS AND FRACTIONATED LO	
INTENSITY GAMMA RADIATION ON ALBINO RAT	
WITHSTAND ENVIRONMENTAL THERMAL STRESSES	N64-25311
	25511
KRISS, A. YE.	
MICROBIOLOGICAL STUDY OF BACTERIA POPULA	ILUN IN
MONOLITH OF MINERAL ICE FTD-TT-63-926/182	N64-21662

MICROORGANISMS IN PERMAFROST FTD-TT-63-929/182 N64-29018 KRISTOFFERSON, A. B.
EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON
TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOL VING AD-439648 N64-30499

KRIVORUCHKO, B. I.
TRAUMATIC SHOCK CAUSED BY SOFT TISSUE COMPRESSION
IN RABBITS AFTER ACUTE RADIATION INJURY JPRS-22001 N64-10393

KROGMAN, W. M.
MECHANICS OF HUMAN BODY AMRL-TDR-63-123

N64-24339

TO

KRONEAUZ, A. N.
RADIATION PROTECTION OF PERSONS WORKING NEAR
GAMMA RADIATION THERAPEUTIC UNITS N64-22731

KROPELIN, K.
OXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND ANALYSIS OF BLOOD GASES A64-80247

KRUGLYAKOV, I. O.
CYBERNETICS IN RADIATION THERAPY

N64-20947

KRUMM, R. L. FLASH AND REAL-TIME IDENTIFICATION OF HIGH PRIORITY TARGETS - PHOTO INTERPRETATION N64-10535

KRUPNOVA, G. F.
ANTIRADIATION EFFECT OF INERT GASES AND LOW-MOLECULAR NARCOTICS ON BEAN SPROUTS JPRS-25703 N64-27055

KRUSHINSKIY, L. V.
MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515

KRUTOVA, I. N.
SELF ADJUSTING SYSTEM WITH PATTERN

N64-24700

KRUZENSHTERN, V. M. COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR DIAGNOSIS OF HEART MALFUNCTION N64-23698

ELECTRIC PROPERTIES OF TISSUES N64-17539

KUAN-CHANG, C.

BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS
BEFORE AND AFTER COLD ADAPTATION

M66-239 N64-22879

KUBICEK. W. MEASURING IMPEDANCE CHANGE IN PEAK-TO-PEAK
AMPLITUDE ACROSS THORAX & HEART RATE AS BEAT-TOBEAT DIRECT CURRENT VOLTAGE SAM-TDR-63-69

CANCELLATION OF RESPIRATION EFFECTS ON TRANS-THORACIC IMPEDANCE SAM-TDR-63-99 N64-1 N64-15745

THORACIC RESPIRATION AND MODE OF INSPIRATION INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION SAM-TDR-63-100 N64-1 N64-17312

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS SAM-TDR-64-15 N64-21597

TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE SAM-TDR-64-5 N64-21803

IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART SAM-TDR-64-23 N64-27493

KUBOTA, K. VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA EFFERENT MOTOR SYSTEM IN CAT A64-80240

KUBZANSKY, P. E. VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS A64-80799

KUCHINA, YE. V.
CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY ALGORITHM OPERATION N64-10007

KUDRYASHOV, YU. B.
IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIDELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

COBALT-60 BULK GRAIN IRRADIATION FACILITY BNL-810/T-312/ N64-19091

KUHN, R. A.
INHALATION OF 95 PERCENT OXYGEN AND 5 PERCENT
CARBON DIOXIDE - EFFECT ON CEREBRAL BLOOD FLOW A64-80567

KUKLIN. A. I. TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS N64-28311

KULIK, A. M. FUNCTIONAL RELATIONSHIP BETWEEN RESPIRATORY MUSCLES AND MUSCLES PERFORMING DYNAMIC WORK A64-80065

KULIK, G. I. NEUROHUMORAL CHANGES IN BLOOD OF DOG AND DOMESTIC FOWL AT HIGH ALTITUDE

EFFECT OF WATER INTAKE ON SODIUM CHLORIDE BALANCE NASA-TT-F-9111 N64-33394

HYPERVENTILATION-ALKALOSIS AND BICARBONATE
CONCENTRATION EFFECT ON ACID-BASE EQUILIBRIUM FOR
DXYGEN TRANSFER AND CONSUMPTION N64-15037



ERYTHROCYTE COUNT FOR QUANTITATIVE EVALUATION OF HUMAN BLOOD CHANGES DURING PHYSICAL WORK AND DXYGEN DEFICIENCY

PH VALUES, BICARBONATE CONTENTS AND CARBONIC ACID PRESSURE OF HUMAN BLOOD IN SHORT TERM OXYGEN DEFICIENCY N64-32326

KURSHAKOV. N. A.
MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS JPRS-19066

N64-11063

KUSCH. T. GLUTAMIC ACID-PYRUVIC ACID TRANSAMINASE AND GLUTAMIC ACID-DXALACETIC ACID TRANSAMINASE UNDER INFLUENCE OF CHLORPROMAZINE, RESERPINE, SEROTONIN, AND PHYSICAL STRESS

A64-81156

KUSHNAREV, V. M.
COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION PROBLEM WHERE PROBABILITY OF REINFORCEMENT VARIES - CYBERNETICS

KUSTOV, V. V.
TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754

KUTIURIN, V. M.
OXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENOIDOSA, SCENEDESHUS OBLIQUUS AND ELODEA CANADENSIS A64-81051

BODY WEIGHT, WATER AND FOOD INTAKE, AND URINE ELECTROLYTE CONCENTRATION IN RAT DURING ADAPTATION
TO WATER DEPRIVATION SCHEDULE
A64-80552

BIOCHEMICAL MECHANISMS OF RADIATION-INDUCED DISTURBANCE OF CELL DIVISION N64-16905

IONIZING RADIATION EFFECT ON BIOCHEMICAL PROCESSES AND SUBSTANCES IN LIVING CELLS AND TESSUES

FTD-TT-63-661/162

N64-26725

KUZMINOV, A. P. PSYCHOPHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON PILOT PERFORMANCE AND CONTROL SYSTEM DESIGN A64-25574

ISOLATION EFFECT ON HUMAN PERFORMANCE AND STABILITY OF DEVELOPED HABIT OF TRANSMITTING INFORMATION A64 A64-25593

ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS 464-27272

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

N64-23740

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS

N64-23759

KUZNETS, YE. I.
BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE N64-22729

KUZNETSOV, A. G.
HIGHER NERVOUS ACTIVITY AND AUTONOMIC NERVOUS SYSTEM FUNCTION DURING RELATIVE SENSORY DEPRIVATION

NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT N64-10757

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS N64-11522 KUZNETSOV, E. D. IRON AS GROWTH FACTOR OF ALGAE, CHLORELLA PYRENDIDOSA, AND CHICK 82 A64-81081

KUZNETSOV, N. I.

EFFECT OF PROLONGED OXYGEN RESPIRATION ON TASTE

KUZNETSOV, S. I.
BIOGEOCHEMISTRY OF SULFUR IN LITHOSPHERE AND
BIOGENIC OXIDATION OF HYDROGEN SULFIDE TO SULFUR & JPRS-22672

KUZNETSOVA, M. A.
VIBRATIONAL AND RADIATION EFFECTS ON VESTIBULAR AND FLEXOR REFLEXES IN GUINEA PIGS AND MICE 464-25595

EFFECT OF SPACE FLIGHT CONDITIONS ON FUNCTIONAL STATE OF VESTIBULAR TONIC & FLEXOR REFLEX IN **GUINEA PIGS** N64-11861

EFFECTS OF VIBRATION AND IONIZING RADIATION ON VESTIBULAR AND MOTOR-DEFENSE REFLEXES

N64-23761

KVITNITSKIY, YE.
NORMAL VARIATIONS OF VECTORCARDIOGRAM COMPONENTS IN DOG, CAT, AND RABBIT JPRS-25599 N64-27318

KYDD, G. H. CHRONIC HIGH PRESSURE DXYGEN TOXICITY EFFECT ON RATS A64-22058

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO OXYGEN AT HIGH PRESSURE A64-80629

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC OXYGEN POISONING NADC-MA-6324

ACUTE AND CHRONIC TOXICITY IN RATS FROM OXYGEN AT HIGH PRESSURE NADC-MA-6331

KYLIN, E. WATER AND MINERAL METABOLIC WASTE IN INSULIN EDEMA NASA-TT-F-9112

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425085 N64-13615

LA ROCHE, G.
METABOLISM OF COMPOUNDS OF RADIOACTIVE BROMINE ISOTOPE IN THYROID GLANDS OF RATS N64-22869

LABAS, IU. A.
NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP A64-80535

LABINS, G. MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG

LABORIT, H.
PHARMACOLOGY RESEARCH AND APPLICATIONS IN AEROSPACE MEDICINE, NOTING KREBS CYCLE AND METABOLIC ACTIVITY IN HUMAN BODY

A64-11439 LACHANCE. P. A. DIET COMPOSITION AND CALORIC INTAKE EFFECTS ON

BODY WEIGHT OF COLD ACCLIMATED RATS 464-80089

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

A64-80820

LACKEY, W. W.

URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED
WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT
SAM-TDR-63-9

N64-13931

LACOMBE, E. H.
PH-TEMPERATURE CONVERSION FACTOR AND CARBON
DIOXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL
ADULTS
A64-81010

LACOUR, M.

COMPARATIVE EFFECT OF EQUIMOLECULAR SOLUTIONS,
DISTILLED, AND VICHY WATER ON WATER TOXICITY
NASA-TT-F-9108
N64-33392

LADELL, N. S.
ADAPTATION OF MAN TO HUMID HEAT IN TROPICS
A64-80428

LADNER, H. A.

RADIATION PROTECTIVE EFFECT OF PYRIDOXAL-5PHOSPHATE IN RAT AND DOG A64-81092

LADNER, K.

PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND
DISULPHIDE GROUPS DUE TO HIGH PRESSURE OXYGEN
BREATHING IN RATS

A64-80073

LAFONTAINE, E.
RADIOACTIVITY MEASUREMENTS OF AIR FRANCE AIRLINERS

ELECTROENCEPHALOGRAPHY IN AVIATION MEDICINE

PARASITIC DISEASES SPREAD BY AIR TRANSPORTATION
A64-80313

AIRLINE FLIGHT SURGEON DUTIES AS RELATED TO GROUND AND FLYING PERSONNEL A64-80774

PRINCIPLES AND METHODS OF USING ELECTROENCEPHALOGRAPHY IN AEROSPACE MEDICINE A64-81336

LAGERWERFF, J. M.

SPACE CABIN ATMOSPHERE CONTAMINANTS EFFECT,
PARTICULARLY OZONE, ON VISUAL PERCEPTION

A64-10631

LAHIRI, S.
MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS
AS RELATED TO DXYGEN INTAKE, VENTILATION, AND
HEART RATE

A64-80515

LAIKIN, YU. A.
MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA
MELANOGASTER CARRIED BY VOSTOK SPACECRAFT

A64-236

LAINE, B.
MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEINVITAMIN CONCENTRATES
NASA-TT-F-233
N64-26836

LAKAAKIAN, A. B.
ADAPTATION TO HIGH ALTITUDE AND EFFECT ON
HEMODYNAMICS OF HUMAN IN ASCENT TO HIGHER LEVELS
A64-81283

LAKIC, J.

BACTERIAL, AND HISTOLOGICAL CHANGES OF RESPIRATORY
MUCOUS MEMBRANE OF RAT AFTER EXPOSURE TO COLD
A64-80954

LAMB, L. E.
ORTHOSTATIC INTOLERANCE, WITH ASSESSMENT OF
CIRCULATORY PROBLEM OF WEIGHTLESSNESS IN PROLONGED
SPACE FLIGHT
A64-19130

CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN SIMULATOR CONFINEMENT A64-19131

PHYSICAL INACTIVITY EFFECT, DISREGARDING
WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING
DURING ORTHOSTATIC TESTING
A64-22060

TWO WEEK BED REST EFFECT UPON CARDIOVASCULAR REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL

REACTIONS IN MAN

464-27597

LEFT BUNDLE BRANCH BLOCK IN FLYING PERSONNEL A64-80172

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS

A64-80632

ATRIAL FIBRILLATION IN FLYING PERSONNEL

A64-80659

AEROSPACE MEDICINE AND ASTRONAUT EVALUATION
N64-30722

LAMBERT, J.
PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED
ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE,
LIFE FORMS, AND SOIL STUDY
A64-80860

LAMBERT, L. B.

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS
UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN
EXTRATERRESTRIAL SPACE CAPSULES
NASA-CR-53302
N64-17766

MONITORING INSTRUMENTATION FOR PHYSIOLOGICAL RESPONSE OF EXPERIMENTAL ANIMALS IN BALLOON FLIGHTS
NASA-CR-53652
N64-20598

LAMBERT, M.

HEAD-UP DISPLAY SYSTEM FOR LOW FLYING OVER HILLS
AND POOR WEATHER APPROACHES

A64-28588

LAMBERTSEN, C. J.
QUANTITATIVE INTERACTIONS OF INCREASED OXYGEN AND
CARBON DIOXIDE TENSIONS UPON RESPIRATION IN MAN
A64-80453

LAMSON, B. G.
COLD EFFECT IN RAT FOLLOWING WHOLE BODY OR ADRENAL IRRADIATION A64-80270

LANDA, L. N.
DEBATE ON ALGORITHMICAL APPROACH TO ANALYSIS
OF TEACHING METHODS
JPRS-22075
N64-11270

MATHEMATICAL MODELS OF NEURAL ACTIVITY

N64-18835

LANG. T.-W.

EXERCISE TEST TO DEMONSTRATE CORONARY
INSUFFICIENCY
A64-80777

CYBERNETICS IN RELATION TO IMPROVED EDUCATION AND TRAINING N64-11059

LANGHAM, W. H.
BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR
RADIOBIOLOGY IN MAMMALS
LAMS-3034
N64-16573

LANGTON, N. H.
PROTECTION AGAINST METEOROIDS DURING MANNED SPACE
FLIGHT A64-80524

LANPHIER, E. H.
HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF
VISION IN RETINAL ISCHEMIA A64-81016

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING N64-17934

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEDLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-17935

ANSDON, S.

IDENTIFICATION OF RUDIMENTARY SENSORY ORGAN AT
JUNCTION OF INFERIOR UTRICULAR SINUS AND
SEMICIRCULAR CANAL IN MAN AND OTHER MAMMALS PHYSIOLOGY
NASA-CR-59374
N64-33906

LANYING, C. BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS BEFORE AND AFTER COLD ADAPTATION N64-22879

LAPIN, I. P.
IMIPRAMINE INHIBITION OF MONOAMINE OXIDASE OF CAT BRAIN N64-12573

LAPKIN, YU. A.

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC
MUTATION OF DROSOPHILA MELANOGASTER INSECTS

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826 N64-23043

LAPLANE, R. RADIOACTIVITY MEASUREMENTS OF AIR FRANCE AIRLINERS A64-80030

ELECTROENCEPHALOGRAPHY IN AVIATION MEDICINE A64-80274

PRINCIPLES AND METHODS OF USING ELECTROENCEPHALOGRAPHY IN AEROSPACE MEDICINE A64-81336

LARICHEV, A. V.
CALCULATION OF ABSORPTION RATE OF ELECTRONS IN ATOMIC OUTER ENERGY LEVELS JPRS-24099 N64-17977

LARMIE, F. M.
IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE
A64-14002 A64-14002

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

LAROCHE. L. P. OCCUPATIONAL MEDICINE AT CAPE KENNEDY

A64-80390

LATARJET. K.
RADIOCHEMISTRY OF PYRMIDINE BASES - ACTION OF RADIATION ON TRANSFORMING DEOXYRIBONUCLEIC ACID OF BACTERIA EUR-1646.F

LATEGOLA, M. T. IN VIVO METHOD FOR QUANTITATIVE ESTIMATION OF TOTAL GAS PRESSURE IN MAMMALIAN TISSUE CARI-63-11 N64-12346

LAUBER, A.
ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE VARYING IN INTENSITY, DURATION, NOISE SPECTRUM, FREQUENCY, AND NUMBER OF REPETITIONS

A64-80

A64-80090

SUBJECTIVE EVALUATION OF DISCOMFORT CAUSED BY DC-8
AND CARAVELLE AIRCRAFT NOISE A64-80673

LAUER, N. V.
CARDIAC FUNCTION DURING INDUCED HYPOXIA IN DOG AT SIMULATED HIGH ALTITUDE A64-81249

ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO A64-81258

AGE FACTOR IN MAMMALIAN RESPONSE TO HYPOXIA A64-81291

PILOTAGE OF HELICOPTERS WITH REACTION CONTROL N64-13499

LAURINGSON, A. HUMAN EYE MOVEMENT TRACKING SYSTEM FOR CONTROL **PURPOSES** A64-23105

LAURINI, F. CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY INTERMITTENT AUDITORY STIMULATION

A64-80722

LAUSCHNER, E. A. CARDIOVASCULAR EXAMINATION IN SELECTION OF AIRCREM A64-13752

AEROMEDICAL SELECTION STANDARDS OF NATO NATIONS FOR AIRCREWS REEVALUATED A64-80 A64-80269

EARLY DIAGNOSIS AND THERAPY IN CARDIOVASCULAR DISTURBANCES IN MAINTAINING FLYING STATUS OF AGING AIRCREM A64-80865

LAYER, M. B.
LUNG VOLUME, COMPLIANCE, AND ARTERIAL DXYGEN AND
CARBON DIOXIDE TENSIONS DURING CONTROLLED
VENTILATION OF DOGS WITH PURE DXYGEN

LAVERY, J. J.
RETENTION OF SKILL AS FUNCTION OF DISPLAY/HAND
MOVEMENT RATIO DURING TRAINING A64-8

LAVILLE, A. ZONE OF LEAST ENERGY EXPENDITURE WITH BIMANUAL MOVEMENTS A64-80341

LOAD EFFECT ON OXYGEN CONSUMPTION AND HEART RATE DURING LIGHT MUSCULAR WORK A64-80342

LAWRENCE, J. H. ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205

BRAIN INJURIES FOLLOWING ALPHA PARTICLE IRRADIATION OF PITUITARY GLAND N64-15206

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF CALCIUM 47 TURNOVER N64 N64-15216

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15 N64-15217

MEDICAL AND BIOLOGICAL RESEARCH UCRL-11184 N64-22851

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION UCRL-11387 N64-27799

LAWRENCE, J. L.
AUDITORY STIMULATION BY MODULATED ALTERNATING
CURRENT APPLIED TO SKIN OF TOTALLY DEAF HUMAN A64-80833

LAWRENCE, M. HEARING LOSS INDUCED BY BLAST INJURY AND BY LONG TERM NOISE EXPOSURE A64-80658

LAMSON, R. L. RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM AFTER GAMMA RADIATION EXPOSURE N64-25309

EFFECTS OF CONTINUOUS AND FRACTIONATED LOW-INTENSITY GAMMA RADIATION ON ALBINO RAT ABILITY TO WITHSTAND ENVIRONMENTAL THERMAL STRESSES

EFFECT OF CONTINUOUS AND FRACTIONATED RADIATION DOSE ON REPRODUCTIVE SYSTEM - SPERM LIFESPAN, COUNT, ACTIVITY N64-25314

LAWSON, W. H.
CARBON DIOXIDE EFFECT ON PULMONARY VASCULAR A64-80701

LAWTON, R. W. EFFECTS OF CARDIOVASCULAR, THERMAL, VISUAL AND RESPIRATORY STRESSES INDUCED BY UNUSUAL ENVIRONMENT A64-12974

CRITICAL VISUAL FIELD OF EXPLOSIVE-ACTUATED LENS FILTER /ELF/ HELMET AND VISOR SYSTEM FOR FLASH BLINDNESS PREVENTION MR-64-1 N64-32299 LAYNE. D. S. RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL STRESS N64-14044 ARL-TDR-63-26

VISUAL DETECTION OF STIMULI WITH NOVELTY ATTRIBUTE ON BACKGROUND OF FAMILIAR SYMBOLS A64-81206

LAZAREV, N. V.
CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF
MANGANESE OXIDES JPRS-18698 N64-10504

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL MANGANESE POISONING JPRS-17557 N6 N64-10564

RELATIONSHIP OF TWO-PHASE TOXICITY AND

THERMODYNAMIC ACTIVITY IN TOXICOLOGY

N64-23367

LAZAREV, V. G.
MATRIX ANALYSIS OF TRANSFER STATE OF NONSYNCHRONOUS FINITE AUTOMATONS

N64-24690

LAZARUS. H. D. RADIATION EFFECTS ON MAMMALIAN EYE - SUBJECT INDEX N64-28788 TID-3912

LAZUKO, N. N. INTERACTION OF EXCITATION & INHIBITION PROCESSES IN ACOUSTIC ANALYZER OF DOG IN RESPONSE TO PURE TONES

LE VORA, N.
HUMAN RESPONSE TO A SELF-CONTAINED AIR SYSTEM AND
PROTECTIVE SUIT DESIGNED TO PROTECT INDIVIDUAL FROM HAZARDOUS ENVIRONMENTAL VAPORS 464-13522

LEACH, L. J. BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR UR-ENG-49-7

LEASK, M. J. H.
BIOLOGICAL MATERIALS AFFECTED BY MAGNETIC FIELDS
OF DIFFERENT STRENGTHS FOR VARYING TIME PERIODS A64-81117

LEBAN, M.
SULFATE REDUCTION BY BACTERIA UCRL-10966

N64-11987

PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT

LEBEDEV, F. M.
SIMULTANEOUS STUDY OF EYE BLINKING REFLEXES AND FUNCTIONAL STATE OF CARDIOVASCULAR SYSTEM IN HUMANS N64-21783 JPRS-24967

LEBEDEV, V. N. NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

LEBEDEVA, E. V.
PHYSICAL CONSTANTS OF VERMICULITE, PENOSHAMOTE,
CERAMSITE AND PERLITE SUBSTRATES FOR CLOSED ECOLOGICAL SYSTEMS A64-25587

LEBEDEVA, L. I.
RADIOSENSITIVITY OF CHROMOSOMES OF EMBRYUNIC FIBROBLASTS IN GUINEA PIGS AND MICE IN VITRO N64-13163 JPRS-22719

LEBEDEVA, O. P.
EFFECT OF INJECTION OF BONE MARROW CELLS ON MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY IRRADIATED MICE N64-18096 JPRS-24056

VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE N64-24630

LEBEDEVA, V. V.

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, &
HIGH DXYGEN CONTENT IN INSPIRED AIR ON
EXCITABILITY OF VISUAL MECHANISM IN MAN
N64-1:

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL PERCEPTION N64-23312 FTD-TT-63-980/1&2

LEBEDEVA, YE. V.
CHARACTERISTICS OF ARTIFICIAL SUBSTRATES FOR USE IN CLOSED ECOLOGICAL SYSTEMS N64-23753

EDINSKII, 4. V. Gradual Stimulation of Semicircular Canals to Determine time correlation between vestibular STIMULI STRENGTH AND VEGETATIVE REACTIONS A64-25596

LEBEDINSKIY, A. V.
STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF
CELL DIVISION UNDER INFLUENCE OF IONIZING
N64-169

AUTONOMIC NERVOUS SYSTEM REACTIONS FROM STIMULATION OF VESTIBULAR ANALYZER

N64-23762

RESTORATIVE PROCESSES IN HEMATOPOIETIC ORGANS AFTER RADIATION EXPOSURE JPRS-26921

LEBEZ, D. TIME AND DOSE DEPENDENCY OF NITROGEN COMPOUND EXCRETION FROM ISOLATED FROG LIVER AFTER WHOLE-BODY IRRADIATION NIJS-R-422 N64-21048

EFFECT OF HISTAMINE AND CYSTEINE ON NITROGEN EXCRETION FROM LIVER OF IRRADIATED FROG N64-21049

NITROGEN COMPOUNDS EXCRETED BY ISOLATED LIVER OF NONIRRADIATED AND IRRADIATED FROGS NIJS-R-421 N64-21056

LEBLANC, J.
NORADRENALINE FUNCTION IN COLD ACCLIMATIZATION OF A64-81064

LEBLANC, M.
ELECTRORETINOGRAPHY - USEFULNESS IN SELECTION OF A64-80802 FLYING PERSONNEL

ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

464-80803

LECHTMAN, M. D.
HYDROGEN-OXIDIZING BACTERIA FOR USE WITH REGENERATION OF FOOD AND OXYGEN FROM WATER AND CARBON DIOXIDE N64-27432

LEDANOVA, S. N. EARLY DIAGNOSIS OF RADIATION SICKNESS N64-12776 JPRS-22049

LEDBETTER. M. K. PERFUSION OF LUNGS OF HUMAN WITH ASTHMA

N64-17945

LEDERBERG, J.

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO DETECT SIGNS OF LIFE ON OTHER PLANETS, SPECIFICALLY MARS

A64-7 A64-24949

IMPROVEMENT OF BIOCHEMICAL INSTRUMENTATION NASA-CR-51095 N64-22774

CIVIL AVIATION AIRCRAFT ACCIDENT INVESTIGATION -

METHODOLOGY AND PATTERNS OF RESEARCH IN RELATION TO HUMAN FACTOR A64-80450

ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN AIRCRAFT FLIGHT SAFETY N64-22042

- LEE, D. H. K.
 THERMOREGULATORY RESPONSES OF MAN TO HOT DESERT
 CONDITIONS
 A64-80427
- LEE, D. M.
 VISUAL PERCEPTION OF ALPHANUMERIC SYMBOLS
 LB-31403 N64-13108

LEE, K. D.

BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH MODIFICATION BY ADRENALINE AND NORADRENALINE A64-80326

BLOOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPOXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL SYSTEM IN CAT A64-81245

ENVIRONMENTAL CONTROL FOR SPACECRAFT INCLUDING CRYGGENIC GAS STORAGE, TEMPERATURE CONTROL, ATMOSPHERE CONTROL AND WATER MANAGEMENT

A64-28087

LEE, W. L., JR.
PROTEIN-BOUND IODINE IN SERUM OF RATS BREATHING 99
PERCENT OXYGEN - MICROSCOPIC CHANGES IN THYROID
N64-32223

LEFFINGWELL, T. P.
RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE
AND AMINOETHYLISOTHIURONIUM DIBROMIDE
SAM-TDR-64-40 N64-32031

LEFRANCOIS, R.

CARBON DIOXIDE VENTILATORY STIMULUS AND RELATION
TO NEUROGENIC VENTILATORY STIMULUS OF MUSCULAR
EXERCISE

A64-8121

LEGNAIOLI, M.

UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN
RADIOGRAPHIC STUDY OF EFFECT OF AGING ON
VENTRICULAR STROKE AND PULMONARY CIRCULATION
A64-B1071

LEHMANN, G.
ADAPTATION TO AND PROTECTION OF MAN FROM VARIOUS
NOISE LEVELS
A64-80436

LEHR, D. J. FAULT ISOLATION PRESENTATION AMRL-TDR-64-57

N64-31944

A64-80799

N64-12766

LEIDERMAN, P. H.
SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON
BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE
A64-80677

VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS

LEMUS, V. B.
TREATMENT OF SEVERE BURN SHOCK BY INTRA-ARTERIAL
INFUSION OF BLOOD SUBSTITUTE AT LOW PRESSURE

LENNOX, D.
AIRLINE PILOT EYE MOVEMENTS DURING TAKEOFF AND LANDING IN VISUAL METEOROLOGICAL CONDITIONS
ARI/HE-15

LENTINI, E. A.
MYDCARDIAL TENSION IN RAT AS RELATED TO PRESSURE
OF OXYGEN AND DURATION OF EXPOSURE
A64-80813

LENTZ, E. C.
SURVIVAL FOLLOWING CONTROLLED AIRCRAFT CRASHES
A64-13996

SURFACE WIND VELOCITIES CORRELATED WITH PARACHUTE LANDING INJURIES A64-27602

LEONG, G. F.
BLOOD PRESSURE MEASUREMENTS OF DXYGEN UPTAKE AND
RESPIRATORY RATE OF RAT LIVER - HYPOXIA

LEPESHRIN, V. V.
LABORATORY APPARATUS FOR VISUAL SIGNALLING
INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323

LERNER, M. D.

DEVELOPMENT OF TECHNIQUES RELATED TO TEMPORAL
ASPECTS OF PHOTO INTERPRETATION - EXPOSURE
TIME & WORK-REST CYCLES N64-10534

LESHCHINSKII, N. I.
RULES FOR TRANSPORTATION AND SHIPMENT OF
RADIOACTIVE MATERIALS
AEC-TR-6315
N64-20477

LESSLER, M. A.
METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO
INCUBATED IN HELIUM-DXYGEN ATMOSPHERE

A64-80852

LETKO, W.
HUMAN TOLERANCE TO PHYSIOLOGICAL EFFECTS OF HEAD
MOTIONS IN ROTATING ENVIRONMENT
AIAA PAPER 64-218
A64-2009

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS ALAA PAPER-64-218 N64-23608

OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK
NASA-TN-D-2195 N64-30094

LETTVIN, J. Y.
COLOR VISION THEORY N64-18829

PASSIVE ION FLUX THROUGH AXON MEMBRANES
N64-29538

LEUSHINA, L. I.
ROLE OF EYE MOVEMENTS IN SPATIAL VISION
N64-25138

LEVEILLE, G. A.
COMPOSITION AND FOOD VALUE OF ALGAE FOR USE IN
SPACE FLIGHTS
A64-80038

EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT REPT.-280 N64-23896

LEVENSHTEYN, V. I.
GROUP CODE THEORY AND APPLICATION OF HADAMARD
MATRIX TO CODING PROBLEM - CYBERNETICS
FTD-TT-63-544/18284 N64-12384

CYBERNETICS & AUTOMATIC CONTROL SYSTEMS
JPRS-18127 N64-14613

LEVERETT, S. D., JR.
CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS
TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL
DECOMPRESSION SICKNESS, BOTH CAISSON AND ALTITUDE
TYPES
A64-19135

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94 N64-1574

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, WEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY CARI-63-30 N64-22711

LEVIN, G. V.

RESULTS FROM FIELD TESTS OF GULLIVER AND DIOGENES
EXPERIMENTS FOR DETECTING LIFE IN SEVERE NATURAL
ENVIRONMENTS

A64-18680

EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS NATURE ON MARS /GULLIVER/ A64-24950

GULLIVER PROGRAM - MARS	EXTRATERRESTRIAL	LIFE
DETECTION AND ANALYSIS		N64-22

N64-22755

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE
NASA-CR-56532
N64-22793

LEVINA, E. N.
CLINICAL EVALUATION OF BIOCHEMICAL TOXICITY OF
MANGANESE OXIDES
JPRS-18698
N64-10504

TOXICOLOGICAL INVESTIGATION OF OCCUPATIONAL
MANGANESE POISONING
JPRS-17557
N64-10564

LEVINE, J.

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID
FORMED BY BACILLUS SUBTILIS INFECTED WITH
BACTERIOPHAGE SP8

N64-25880

LEVINE, L.
ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR
REACTION WITH CERTAIN OTHER HEMOGLOBINS
N64-25491

LEVINE, M.
TIME JUDGMENT-CONSISTENCY OF INDIVIDUAL
DIFFERENCES
A64-80745

LEVINE, R. H.
PROTECTION AGAINST HYPERTHERMIA BY ARTIFICIAL
COOLING, GIVING OBSERVATIONS MADE ON RATS AND
HUMANS
A64-14995

LEVINE, S.

PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL
AND PARTIAL PERCEPTUAL ISOLATION

A64-80513

LEVINSON, G. E.
EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS
RELATED TO GLUCOSE UTILIZATION A64-80732

LEVINSON, M. S.
INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS RIBONUCLEIC ACID N64-32957

LEVINTHAL, E.

DESCRIPTION OF MULTIVATOR, DEVICE DESIGNED TO
DETECT SIGNS OF LIFE ON OTHER PLANETS,
SPECIFICALLY MARS

A64-24949

LEVITZ, J. J.
HUMAN RELIABILITY IN PERFORMANCE OF MAINTENANCE
FOR TITAN II ENGINE
LRP-317/TDR-63-218
N64-26025

LEVY, G. W.
HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE
OF HEALTH
ENG. REPT.-11133 N64-14943

LEVY, P. M.
VERTEBRAL FRACTURES AS RELATED TO EJECTION SEAT
DESIGN, POSTURE, AND EJECTION FORCES

A64-80501

LEWILLIE, L.
CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING
EXERCISE
A64-80352

LEWIS, A. M.
LIPID PEROXIDATION EFFECT ON LYSIS OF
ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC
SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN
TOXICITY
A64-25550

LEWIS, E. R.
ANALOG COMPUTER SIMULATION OF A NEURAL ELEMENT,
USING LOCUS CONCEPT WITH EMPHASIS ON SYNAPTIC

FUNCTIONS

A64-14966

LEWIS, H. E.

MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED
BODY TEMPERATURE

A64-80272

ACCLIMATIZATION OF MAN TO POLAR REGIONS

A64-80426

LOCAL SWEATING RESPONSE TO HEATING AND LOCAL SWEAT SUPPRESSION DURING ACCLIMATIZATION OF WHOLE BODY A64-80940

LEWIS, L.

BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL
WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS
AIAA PAPER 64-217

A64-18853

LEWIS, M. E.

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT
TERM RECALL OF BRIEFLY EXPOSED DISPLAYS
NAVTRADEVCEN-1303-1
N64-29814

LEWIS, S. C.

BACTERIAL AND GREEN PLANT PHOTOSYNTHESIS REVIEWING
HISTORY AND DEVELOPMENT A64-25318

PHOTOSYNTHETIC PROCESSES AND THEIR SCIENTIFIC IMPORTANCE IN ALGAE AND BACTERIA

A64-81036

LEWIS, S. T.
URINE EVACUATING SYSTEM FOR USE IN FULLY
PRESSURIZED SUITS
SAM-TOR-64-13
N64-17958

LEWIS, Y. Z.

MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN
BODIES IN SIMULATED SPACE CABIN
SAM-TDR-64-3

N64-21595

LEYTES, N. S.
CHARACTERIZATION OF VITAL MANIFESTATIONS OF
TEMPERAMENT
JPRS-22405 N64-12009

LEYTHAM, G. W.
PERCEPTION OF VERTICALITY IN YOUNG, MIDDLE-AGED,
AND OLD INDIVIDUALS OF SIMILAR NONVERBAL
INTELLIGENCE
A64-81115

LIBERMAN, S. S.

DERIVATIVES OF DIPHENYLMETHANE, PROPANOL,
UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND
NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM
N64-15383

LIBERMAN, YE. A.
PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE
TISSUES N64-28040

LIBON, J.
RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO
RESPIRATORY RATE
A64-80598

LIBOVE, A. H.
SURVIVAL RATES OF PERSONS IN RADIUM INDUSTRY
NYO-2762
N64-20485

LICHTENSTEIN, M.

REACTION TIME TO REGULARLY RECURRING VISUAL
STIMULI
A64-80583

LICHTENTHALER, H. K.
QUINONE COMPOSITION OF CHLORELLA PYRENOIDOSA
N64-19471

LICHTY, J. A.
MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE
A64-80660

LIDDLE, D.

READING AND COLOR DISCRIMINATION THROUGH
FINGERTIPS

A64-81124

LIDVALL, H. F.

NEUROTIC ANXIETY AND VESTIBULAR FUNCTION REFLECTED
IN VERTIGO AND NYSTAGMUS UPON REPEATED CALORIC
STIMULATION

A64-80301

LIE, R. PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL ANIMALS TO AEROSOLS OF FISSION PRODUCTS LF-11 N64-11206

LIENERT, G. A.
NOISE EFFECTS ON PERFORMANCE OF INTELLIGENCE AND
A64-804 A64-80410

LIKHTENSHTEYN, YE. A.
CYBERNETICS IN RADIATION THERAPY

N64-20947

LILLEHEI, J. P. PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS A64-81002

LILLY, J. C. COMMUNICATION BETWEEN MAN AND OTHER SPECIES -DOLPHIN STUDIES NASA-CR-56530 N64-22791 BIOLOGICAL COMMUNICATIONS RESEARCH - COMMUNICATION

BETWEEN DOLPHINS NASA-CR-5322R N64-23391

LIM. T. P. K. PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND DXYGEN CONSUMPTION

A64-12995

A64-80116

LIMANSKIY, YU. P.
REACTION OF NEURONS OF VESTIBULAR NUCLEI TO
STIMULATION OF VESTIBULAR APPARATUS THROUGH
PASSIVE VERTICAL MOTION OF ANIMALS N64-27323

LINDBERG. R. G.
HYPOXIA, HYPOTHERMIA, AND RADIATION RESPONSE OF
POCKET MICE NASA-CR-58526 N64-28838

ACCELERATION EFFECTS AND SOME PROTECTIVE METHODS

A64-80104 PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT OF ACCELERATION TOLERANCE OF HUMAN HEAD AMRL-TDR-63-106 N64-16808

LINDBERG, R. G.
STUDY OF IRRADIATION EFFECTS ON PEROGNATHUS
LONGIMEMBRIS AND EVALUATION OF SUITABILITY FOR SPACE BIOLOGY RESEARCH NASA-CR-55553 N64-15902

LINDBLOM, B. E. F.
ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

LINDE, L. M. CARDIOVASCULAR, RESPIRATORY, AND METABOLIC FITNESS TESTED BY EXERCISE

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY HYPERVENTILATED DOG AS RELATED TO PH AND CARBON DIDXIDE TENSION A64-81009

LINDENBRATEN, L. D. CYBERNETICS IN RADIATION THERAPY

N64-20947

LINDGREN, F. T. INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION N64-22860

COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS N64-22861

LINDSEY, A. PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM -TRANSFER OF HEART CONTRACTILE ENERGY THROUGH

LUNG-THORAX SYSTEM

N64-22412

LINDSLEY, D. B. COMPUTER-AVERAGED POTENTIALS FOR CORTICAL EVOKED RESPONSES TO STIMULI DURING VISUAL VIGILANCE TASKS

VISUAL EVOKED POTENTIALS CAUSED BY STIMULI OF CONSTANT DURATION AND VARYING LUMINANCE AND BY FLASHES

CORTICAL EVOKED POTENTIALS AND ATTENTIVENESS AS RELATED TO SIGNAL DETECTION IN VIGILANCE TASK

LINFOOT, J. A.
ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF

LINKOVSKIY, G. B. BIONICS - ITS METHODS AND RESULTS JPRS-24971 N64-21289

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS

LIPETZ, L. E.

GLIAL AND OTHER NONNEURONAL CELL CONTROL OF NEURON
ACTIVITY - RETINA N64-18832

LIPKAN, M. F. EFFECTS OF IRRADIATION AND ANTIRADIATION DRUGS ON METABOLISM N64-10596

ANIMAL METABOLISM AND DETOXIFICATION OF METABOLIC PRODUCTS DURING RADIATION INJURIES JPRS-26500 N64-30742

LIPSKY. S. R. ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC MOLECULES N64-13139

ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS DURING AEROSPACE FLIGHTS MR-1187-60 N64-16812

LISKE, E. A. SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN ELECTROENCEPHALOGRAPHY A64-25557

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FORCE CREWS AND RECRUITS A64-8094 A64-80947

LISKOWITZ, J. W. FEASIBILITY OF OPTICAL ROTATION FOR REMOTE DETECTION OF EXTRATERRESTRIAL LIFE N64-31026

PARAMAGNETIC ELECTRON RESONANCE IN COLD BOKKEVELD METEORITE AS INDICATION OF BIOGENIC ORIGIN A64-81119

LITTA-MODIGNANI, R.
VIBRATIONAL STRESS ON PLASMA AND URINARY
CORTICOSTEROID LEVELS A64-22064

WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS

WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN AMRL-TDR-64-53 N64-31942

ENDOCRINE AND METABOLIC RESPONSE OF RESTRAINED DOGS TO WHOLE-BODY VIBRATION
AMRL-TDR-64-54 N64-31943

CARDIOVASCULAR RESPONSE TO ACUTE HYPOCAPNIA DUE TO

OVERBREATHING

A64-80407

LITWIN, M. S.
BIOLOGICAL EFFECT OF LASER RADIATION ON ANIMAL
TISSUES A64-20638

LIU, T. T.

X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
STATES OF SPERMATOGENESIS

A64-27144

LIUBIMOVA-GERASIMOVA, R. M.
GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO
DETERMINE TIME CORRELATION BETWEEN VESTIBULAR
STIMULI STRENGTH AND VEGETATIVE REACTIONS
A64-2559

LIVANOV, M. N.
EFFECT OF IONIZING RADIATION ON NERVOUS SYSTEM
JPRS-19284
N64-11067

ELECTRONIC COMPUTER ANALYSIS OF BIOELECTRIC CURRENT IN BRAIN - CYBERNETICS N64-12517

IONIZING RADIATION EFFECT ON NERVOUS SYSTEM FTD-TY-63-582/182 N64-28448

LIVENSON, A. R.
ELECTRICAL PARAMETERS OF BIOLOGICAL TISSUES IN
MICROWAVE RANGE
JPRS-26191
N64-28092

APPARATUS FOR SYNCHRONIZED TREATMENT OF BIOLOGICAL ORGANISMS WITH PULSE MODULATED MICROWAVES
N64-30396

LIVINGSTON, L.
DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL
DIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM
A64-81118

LIVINGSTON, W. A.

MODEL OF ELECTROMAGNETIC ENVIRONMENT IN CISLUNAR
SPACE FOR FLIGHT TRAINING SIMULATION

A64-81220

OUTER SPACE ENVIRONMENT EFFECT ON SIMULATION OF SPACE VEHICLES DURING TRAINING A64-81222

LIVSHITS, B. N.
MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING
DIAGNOSIS
N64-23444

LOBANOV, A. G.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752

LOCKER, A.

RADIATION PROTECTION EFFECT IN MOUSE OF NEW
PSYCHOTROPIC DRUGS

A64-81157

LOCKHART, A.

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND
ISOTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS
RESPONSES AS COMPARED TO MALE SUBJECTS UNDER
SIMILAR CONDITIONS
A64-22812

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS COMPARED TO MEN A64-80683

LOEB. M.
DETECTION OF RANDOM AUDITORY AND VISUAL SIGNALS
UNDER DIFFERENT SCHEDULES
A64-80201

LOESS, H.
MEMORY SPAN AFFECTED BY BRIEF INTERPOLATED

ACTIVITY

A64-80575

LOFTUS, J. P., JR.
WEIGHTLESSNESS WITH RESPECT TO ORIENTATION,
PSYCHOMOTOR PERFORMANCE AND PHYSIOLOGICAL FUNCTION
A64-12982

LOGAN. J. A.

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL
DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM
VOLATILIZATION PROCESS
TN-62-13
N64-19556

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY
CHLORELLA
TN-62-16 N64-21554

LOGAN, O.

EXPERIMENT TO DETERMINE ACCURACY WITH WHICH
INDIVIDUALS PRODUCE ANGLES IN RANGE OF 15 TO 90
DEGREES WHEN GIVEN HORIZONTAL OR VERTICAL LINE OF
REFERENCE
A64-25345

LOGVIN, M. A.

RELATIONSHIP BETWEEN EMPIRICAL AND THEORETICAL IN
SCIENCE, PHYSIOLOGICAL BASIS OF CONSCIOUSNESS EPISTEMOLOGY
JPRS-18208
N64-10753

PHYSIOLOGICAL CONSCIOUSNESS OF BRAIN

N64-11223

LOGVINOVA, V. V.

EFFECT OF ADRENALINE HORMONE ON RADIOSENSITIVITY
OF CHROMOSOMES AFTER IONIZING RADIATION IN MICE
JPRS-22522 N64-12068

LOHS, K.
DETECTION INSTRUMENTS FOR TOXIC GASES, VAPORS, AND
DUSTS
JPRS-21771
N64-10205

LOMAX, P.

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL
TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT
EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE
A64-80975

LOMBARD, C. F.
IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE
AND CONTAINMENT
A64-14002

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

PSYCHOLOGICAL AND PHYSICAL CRITERIA RECOMMENDED FOR SELECTION OF ASTRONAUTS

A64-11427

RANGE OF PHYSIOLOGICAL TOLERANCE ENCOUNTERED IN AIRCRAFT AND SPACE VEHICLES A64-12379

LOMONOS, P. I.

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES

N64-15681

LOMOV, B. F.
ENGINEERING PSYCHOLOGY AND HUMAN PERFORMANCE
A64-81180

ENGINEERING PSYCHOLOGY - INVESTIGATION OF TACTILE SENSATION, GRAPHIC ACTIVITY, & SPATIAL PERCEPTION OF MAN-MACHINE SYSTEMS

JPRS-22300 N64-11872

SPATIAL PERCEPTION AS FACTOR IN HUMAN PERFORMANCE, LEARNING, AND WORK ACTIVITY NASA-TT-F-164 N64-25132

SPATIAL PERCEPTION OF OBJECTS BY VARIOUS SENSORY ORGANS - EYES, FINGERS, HANDS N64-25137

PROCESS OF SPATIAL CONCEPTUALIZATION IN STUDENTS
OF DRAWING AND DESIGNING N64-25161

LOMOVA, M. A.
PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED
TO GRAVITATIONAL ACCELERATION

NASA-TT-F-197

N64-26782

LOMSADZE, B. A. IONIZING RADIATION EFFECT ON LIVER PROTEIN & BIDELECTRIC CURRENT IN MUSCLES JPRS-18760 N64-11346

EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES A64-80746

LOPEZ. C. E. EDEMA AT HIGH ALTITUDE IN RELATION TO CARDIOVASCULAR PHYSIOLOGY

A64-80276

A64-80827

LOREN. H. F. ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856

LORENTS, O. G.
HUMAN PHYSIOLOGY AND PATHOLOGY IN HIGH-ALTITUDE N64-10516

LORENTZEN, F. V.
CONCENTRATION OF NONESTERIFIED FATTY ACIDS IN
VENOUS BLOOD UNDER DIFFERENT EXPERIMENTAL

NONESTERIFIED FATTY ACIDS IN VENDUS BLOOD AS RELATED TO VARIOUS LEVELS OF EXERCISE PLUS HYPOXIA, HYPERCAPNIA, HYPOCAPNIA, ALKALOSIS, AND PURE OXYGEN BREATHING A64-806: A64-80633

LORENZ, D.
RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
N64-1 N64-17790

LORENZEN, H.
MITOSIS AND CHLOROPHYLL CONTENT IN CULTURES OF
CHLORELLA PYRENOIDOSA EXPOSED TO COLD AND HEAT FOR
A64-80809

ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS A64~13750

LOUBJERE, R. REPEATED POSITIVE ACCELERATION OF LOW INTENSITY &
LONG DURATION - ANATOMICAL STUDY OF DOG KIDNEY N64-13462

LOUDERBACK, A. L.
SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT SSD-TDR-64-1 N64-19184

LOUDON, R. G. AIRBORNE MICROORGANISMS AS SOURCE OF INFECTION DURING LOW GRAVITATIONAL SPACE FLIGHT AND METHODS OF RECOGNITION BASED ON CHLORIDE CONTENT

LOVAAS, A. RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM UR-648 N64-31319

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS

LOVELACE, W. R., II HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND METHODS OF IMPROVING TOLERANCE IN MAN

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

LOVINGER, D. N.

OPINIONS SURVEY OF MEMBERS OF HUMAN FACTORS
SOCIETY ON ADEQUACY OF HUMAN FACTORS REFERENCE
WORKS, USING QUESTIONNAIRE

A64-2: A64-22079

LOMENTHAL, M. PERCEPTUAL SPEED RELATED TO BEHAVIORAL PROFICIENCY IN DIFFERENT MODALITIES A64-80289

LOWRY, R. H.
HUMAN ELEMENT IN EQUIPMENT FAILURE AND SPACE
FLIGHT STRESS PROBLEMS, EMPHASIZING QUESTION OF
MORAL DISCIPLINE IN WORKMANSHIP

A64-26

464-26525

LOZINA-LOZINSKIY, L. K.
RESISTANCE OF INSECT METABOLISM AT ULTRALOM **TEMPERATURE** JPRS-18218 N64-10752

LUBIN, A. SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

LUBITZ, J. A.
MULTIFILTER SYSTEM FOR WASH WATER RECLAMATION FOR
EXTENDED DURATION SPACE VOYAGES, SHOWING
IMPORTANCE OF WATER COMPOSITION
AIAA PAPER 64-212
A64-18865 A64-18865

ALGAE, OTHER PLANTS, AND ANIMALS AS FOOD FOR SPACE A64-80208

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS AIAA PAPER-64-212

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS N64-28949

LUBON, R. E.
SLANT PERCEPTION RELATED TO ESTIMATE OF AVERAGE SIZE OF TEXTURE ELEMENTS IN VISUAL PATTERN A64-81139

LUBY, E. D.
PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT A64-80760

LUCAS, B. G. B.
NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANOXIA IN GUINEA PIGS

ANOXIA VARIOUSLY INDUCED AND BRAIN DAMAGE IN GUINEA PIG A64 A64-80219

ELECTRICAL IMPEDANCE PLETHYSMOGRAPH, EMPHASIZING ITS APPLICATIONS TO WEAPON SYSTEM EVALUATION AND TO SPACE FLIGHT

LUCE, T. S.
TASK PERFORMANCE MEASUREMENTS EXAMINING EFFECT OF
INSERTED ARTIFICIAL SIGNALS AND RESPONSE
COMPLEXITY ON VIGILANCE
A64-2685

LABORATORY STUDIES OF ABILITY OF OBSERVERS TO PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN APPROACH AND LANDING HSR-RR-63/7-MK-X

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR STIMULI HSR-RR-62/9-MK-X

LUEDEMAN. EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES A64~20698

EJECTION SEAT ACCELERATIONS AND INJURIES OF VERTEBRAL COLUMN A64-80504

PHYSICAL PERFORMANCE IN RELATION TO BODY SIZE, COMPOSITION AND DXYGEN CONSUMPTION

ADAPTATION TO LOW PRESSURE - RESEARCH FACILITIES AND TECHNIQUES A64-80423

- LUKASH, A. I.

 HYPEROXIA EFFECT ON PROTEOLYSIS OF BRAIN OF WHITE
 RATS FOLLOWING DXYGEN EXPOSURE OF 6 AND 3.5
 ATMOSPHERES FOR VARYING TIME

 A64-27739
- LUKASIEWICZ, J.
 AERODYNAMIC OPERATION OF HYPERSONIC VON KARMAN GAS
 DYNAMIC TUNNEL FACILITY
 AD-435787
 N64-18632
- LUKYANOV, V. P.

 RADIATION MEDICINE THERAPEUTIC PASTE FOR
 TREATMENT OF RADIATION LESIONS N64-15678
- LUKYANOVA, L. D.
 CONDITIONED RESPONCE OF WHITE RATS OBSERVED AFTER
 SPACE FLIGHT
 N64-11676
- LUNDBERG, E.
 EDEMA AT HIGH ALTITUDE IN RELATION TO
 CARDIOVASCULAR PHYSIOLOGY
 A64-80276
- LUNDBERG, U.
 SEASONAL VARIATIONS IN PULSE RATE DURING
 ERGOMETRIC WORK TEST OF SWEDISH AIR FORCE PILOTS
 A64-1299
 - POSTURE EFFECTS IN PILOTS AND IN RECRUITS IN OTHER OCCUPATIONS A64-12992
- LUNDMAN, T.

 DETERMINATION OF NITROGEN CONCENTRATION DURING
 BREATHING WITH MULTIPLE BREATH METHOD AND RELATION
 TO NORMAL PULMONARY VENTILATION

 A64-R0885
- LURIA, S. M.
 SCOTOPIC ACUITY THRESHOLDS IN UPRIGHT AND TILTED
 BODY POSITION
 A64-80140
- LUTSENKO, L. A.
 EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM TOXICOLGY N64-23368
- LVOV, N. P.

 NEW FREELY LIVING NITROGEN FIXING MICROORGANISMS SOIL ENRICHMENT
 FTD-TT-63-1010/1

 N64-22141
- LVOVA, T. S.
 BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER
 SPACE FLIGHT N64-11674
 - EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE N64-11679
- LYAGUSHEV, N. YE.
 TRAINING OF SCIENTISTS IN USSR
 JPRS-27116

N64-33855

- LYAPUNOV, A. A.
 MEMORY AND CONTROL FUNCTIONS IN TEACHING AUTOMATIC
 LEARNING SYSTEMS N64-11040
 - CONTROL SYSTEMS IN ORGANIC NATURE UNDERSTANDING LIFE PROCESSES N64-29742
- LYMAN, C. P.
 LOW TEMPERATURE EFFECT ON ISOLATED HEARTS OF
 GROUND SQUIRRELS
 AAL-TDR-63-4
 N64-13630
 - HIBERNATION IN MAMMALS AND BIRDS
 AAL-TDR-63-3
 N64-13661
- LYMAN, J.

 UPPER EXTREMITY PROSTHETICS, SENSORY MOTOR CONTROL
 AND HUMAN PERFORMANCE IN TRACKING
 REPT.-64-30 N64-33689
- LYMAN. J. T.

 BRAIN INJURIES FOLLOWING ALPHA PARTICLE
 IRRADIATION OF PITUITARY GLAND

 N64-15206
 - RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15217
 - PERFORMANCE OF HUMAN OPERATORS OF TRACKING SYSTEMS AD-428192 N64-19909

- RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865
- EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE

N64-27513

- LYNCH, V. H.

 UTILIZATION OF URINARY NITROGEN BY CHLORELLA
 PYRENOIDOSA FOR BIOLOGICAL REGENERATION SYSTEM
 FOR LONG TERM SPACE FLIGHT

 A64-80828
 - UTILIZATION AND METABOLISM OF PURINES AS NITROGEN
 SOURCE FOR CHLORELLA PYRENOIDOSA
 A64-80945
- LYSENKO, S. V.
 ULTRAHIGH VACUUM EFFECTS ON MICROORGANISMS
 A64-18740
- LYSTSDV, V. N.

 OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF
 NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED
 THROUGH DEOXYRIBONUCLEIC ACID
 N64-19439
- LYUBARSKIY, K. A.
 HISTORY, NATURE, AND THEORY OF ASTROBIOLOGY
 JPRS-17724
 N64-10643
- LYUBIMOV, N. N.
 PATHS FOR PRIMARY SPECIFIC INFORMATION CONDUCTION
 IN VISUAL ANALYZER SYSTEM OF DOG
- LYUBIMOVA-GERASIMOVA, R. M.
 AUTONOMIC NERVOUS SYSTEM REACTIONS FROM
 STIMULATION OF VESTIBULAR ANALYZER

N64-23762

LYUPUNDV, A. A.
CONTROL SYSTEMS, CODING, PROGRAMMING, AND
COMPUTERS IN CYBERNETICS
1PRS-23700 N64-16860

M

- MAC CANON, D. M.
 OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN
 RELATION TO COLD TOLERANCE A64-80107
 - OXYGEN INHALATION EFFECTS ON COLD RESPONSE
 THRESHOLDS AND ON GAS TRANSPORT AND ACID-BASE
 BALANCE OF BLOOD
 AD-600077
 N64-26550
- MAC HATTIE, L. SURVIVAL OF MICE IN ABSENCE OF INERT GAS

N64-17953

- MAC LEAN, P. D.
 SELECTIVE VULNERABILITY OF HIPPOCAMPUS AREA MORPHOLOGICAL CHANGES N64-14596
- MAC LEOD. S. HUMAN FACTOR PROBLEMS IN PHOTO INTERPRETATION N64-10528
- MAC PHERSON, R. R.
 HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED
 CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN
 HOT AND HUMID CLIMATES
 A64-80697
- MAC RAE, A. W.

 PERFORMANCE OF MANUAL POSITIONING TASK AS FUNCTION

 OF GUIDANCE, RESTRICTION, AND KNOWLEDGE OF RESULTS

 IN TRAINING

 A64-81192
- MAC VEY, J. W.
 SPECULATIONS ON LIFE IN UNIVERSE, EVOLUTION OF
 MAN, AND BEGINNINGS OF UNIVERSE
 A64-80595
- MACE, D. J.
 PREDICTION OF ADAPTABILITY OF BASIC AIRMEN
 REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION
 AD-436571
 N64-18906

- MACHABELI, M. S.
 THROMBOPLASTIN, THROMBIN AND FIBRIN FORMATION IN
 BLOOD CDAGULATION HEMOSTATIC PROCESS
 JPRS-19219
 N64-11318
- MACK, P. B.
 BED REST STUDY OF RADIOGRAPHIC BONE DENSITY AND URINE ANALYSIS FOR CALCIUM AND PHOSPHORUS NASA-CR-55313
 N64-1489
- MACKINNON, P. C. B.
 ADRENOCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER
 STRESS CONDITIONS A64-12990
- MACKLEM, P. T.

 ARTERIAL CARBON DIOXIDE TENSION EFFECT ON FLOW
 RESISTANCE AND MECHANICS OF LUNG IN MAN DURING
 VOLUNTARY HYPERVENTILATION

 A64-80740
- MACKLIN, M.
 WATER RECOVERY AND HUMAN WASTE DISPOSAL SYSTEMS
 FOR EXTENDED SPACE MISSIONS
 A64-18624
- MACKWORTH, J. F.
 TRUE AND FALSE KNOWLEDGE OF RESULTS EFFECT ON
 DETECTING BRIEF PAUSES IN MOVEMENT OF CLOCK HAND
 A64-25479
- MACKWORTH, N. H.
 EYE MOVEMENTS RECORDED DURING VIGILANCE
 A64~80795
- MADDEN, B. C., JR.
 MOBILE SUPPORT FACILITY FOR BIOASTRONAUTICS
 A64~80545
- MADDEN, W. F.
 EJECTION ESCAPE SYSTEMS AND VERTEBRAL INJURIES
 A64-20698
 - EJECTION SEAT ACCELERATIONS AND INJURIES OF VERTEBRAL COLUMN A64-80504
- MADEY, R.
 ENERGETIC PARTICLES IN COSMIC AND GEOMAGNETICALLY
 TRAPPED RADIATION AS HAZARDS TO MANNED SPACE
 TRAVEL
 A64-11457
- MADIYEVSKIY, YU. M.

 CHANGES IN FRACTIONAL COMPOSITION & COLLOIDAL
 STABILITY OF SERUM PROTEINS IN RABBIT BLOOD DURING
 RADIATION SICKNESS
 N64-30243
- MAGER, M.
 SUPPLEMENTARY FEEDING OF CARBOHYDRATE AND EFFECT
 ON PLASMA FREE FATTY ACIDS DURING PHYSICAL
 EXERCISE

 664-R0886
- MAGID, E. B.
 VIBRATIONAL STRESS ON PLASMA AND URINARY
 CORTICOSTEROID LEVELS
 A64-22064
 - WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-80636
 - WHOLE-BODY VIBRATION EFFECT ON PLASMA AND URINARY CORTICOSTEROID LEVELS IN MAN
 AMRL-TDR-64-53 N64-31942
- MAGDUN, H. I.
 PATHOLOGICAL AND PSYCHOLOGICAL EFFECTS OF WHIPLASH
 INJURY
 A64-80233
- MAGDUN, H. M.
 ELECTROENCEPHALOGRAPHIC AND NEUROPHYSIOLOGICAL
 STUDIES OF BRAIN FUNCTION AND BEHAVIOR
 AFOSR-64-1195 N64-30465
- MANLER, I.

 BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN
 BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION
- MAIER, R. A.
 PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT
 MOVEMENT AS FUNCTION OF BACKGROUND STIMULI
 A64-80580

- MAILER, C. M.
 HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS
 RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR
 PRESSURE
 A64-80908
- MAILLIE, H. D.
 GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION
 DOSE WITHIN TISSUE
 UR-651
 N64-31059
- MAIN, R. K.
 PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED
 DEDXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
 USNRDL-TR-655
 N64-24185
- MAIO, D. A.
 POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND
 CAPACITY IN SINGLE BLOOD SAMPLE
 SAM-TDR-64-39
 N64-29287
- MAISKII, I. N.
 GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC
 BACTERIA, USING MICROBIOLOGY AND CYTOLOGY
- MAJER, A. J.
 AUDITORY DISCRIMINATION OF IMPULSE AND CONTINUOUS
 NOISE
 A64-8002
- MAKARCHENKO, A. F.
 INTERRELATIONSHIP BETWEEN PHYSIOLOGY & CYBERNETICS
 JPRS-23060 N64-14530
 - ADAPTATION AND ACCLIMATIZATION OF HUMAN ORGANISM TO HYPOXIA JPRS-25796 N64-28076
- MAKASHEV, K. K.
 DISTRIBUTION OF RADIOACTIVE CALCIUM AND EXCRETION
 FROM HEALTHY AND LEAD-POISONED ANIMALS
 JPRS-26888
 N64-33854
- MAKSIMOV, D. G.
 SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
 MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
 SPACE FLIGHT
 A64-2558
 - TYPES AND METHOD OF ATTACHING ELECTRODES IN RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS N64-11710
- MAKSIMOVICH, N. A.
 EFFECT OF INJECTION OF BONE MARROW CELLS ON
 MORPHOLOGICAL MANIFESTATIONS OF INFLUENZA IN X-RAY
 IRRADIATED MICE
 JPRS-24056
 - VIRUS AND MORPHOLOGICAL STUDY OF INDUCED RADIATION SICKNESS IN MICE
 JPRS-25277 N64-24630
- MALAMUD, N.

 PATTERN AND MODE OF DISTRIBUTION OF LESIONS IN
 CHRONIC CASES OF HYPOXEMIC AND BILIRUBIN
 ENCEPHALOPATHY

 N64-14597
- MALANINA, V. N.
 CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE
 RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
 JPRS-25251
 N64-26055
- MALHOTRA, D. P.
 VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE
 IN RATS CAUSED BY IRRADIATED FOOD
 PR-14
 N64-33993
- MALIN, H. V.

 SKIN AND RECTAL TEMPERATURES AS RELATED TO CIRCULATORY DISTURBANCES

 A64-80405
- MALINOVSKIY, O. V.
 RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST
 CELLS AFTER GAMMA RADIATION N64-12795
- MALKIMAN, I. I.
 PHYSIOLOGICAL TELEMETRIC METHOD USING SWALLOWABLE
 RADIOCAPSULE FOR STUDY OF GASTROINTESTINAL
 PROCESSES
 A64-80792

N64-28111

UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT

A64-81021

USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM NASA-TT-F-9026

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS
N64-30237

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

MALKIN, V. B.
HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX
AND SUBCORTICAL AREAS OF BRAIN IN RABBIT

A64-812!

POLYGRAPHIC METHOD FOR MONITORING PHYSIOLOGICAL RESPONSE IN AUTOMATIC DIAGNOSIS OF HYPOXIA A64-812

BIOELECTRIC CURRENT POTENTIALS AND OXYGEN PRESSURE IN BRAIN TISSUES DURING HYPOXIA OF SPACE FLIGHT N64-11708

MALLICK, D. L.

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING
MISSION SIMULATION
NASA-TN-0-2447

N64-29206

MALLORY, W. K.
QUEUING MODEL FOR DETERMINING MANPOWER AND
TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21
N64-19101

MALONEY, J. E.
REPRODUCIBILITY OF TRANSIENT RESPONSE TO CARBON
DIOXIDE INHALATION IN MAN
A64-80766

MALONEY, J. V., JR.

COMPARATIVE EVALUATION OF BLOOD BY CHEMICAL

ANALYSIS AND BY DIGITAL COMPUTER

A64-80543

MALVEAUX, E.

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL
TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT
EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE
A64-80975

MALVICINI, A.
TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN
HEALTH PHYSICS
RSIC-87
N64-12997

MANALIEV, M. I.

INHIBITOR OF THYROID AND EFFECT ON ADAPTATION TO
HIGH ALTITUDE IN DOGS

A64-81280

MANDEL, M.
GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR
TAXONOMY OF BACTERIA N64-18056

MANDEL, M. J.

MANS SHORT TIME TOLERANCE TO SINUSOIDAL

VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN

THREE ORTHOGONAL AXES

A64-27596

MANDELL, A. J.
STARVATION AND SLEEP DEPRIVATION-EFFECT ON
EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS
RESPONSIVE INDOLE SUBSTANCE
A64-80675

PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL EFFECTS OF STRESS IN FASTING MAN

A64-81005

MANGILI, F.
BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE
DURING STRENUOUS EXERCISE IN MAN

HEART RATE IN MEN OF DIFFERENT AGE GROUPS DURING
PHYSICAL EXERCISE A64-81093

OXYGEN CONSUMPTION AND RELATION TO HEART RATE
DURING EXERCISE AT HIGH ALTITUDE

A64-81231

MANN, B.

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC
COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION
PROCEDURES
SAM-TDR-63-73
N64-25040

MANNEY, T. R.
TRYPTOPHAN SYNTHETASE MUTANTS OF YEAST - SUPERSUPPRESSOR ACTION IN RELATION TO ALLELIC MAPPING &
COMPLEMENTATION
UCRL-11191
N64-17707

MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION N64-22852

MANNING, J.
ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM
PROTEIN FRACTIONS N64-22856

MANOWITZ, 8.

COBALT-60 BULK GRAIN IRRADIATION FACILITY
BNL-810/T-312/ N64-19091

MANTEYFEL, V. M.
LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS
USING IONIZING RADIATION
JPRS-22915
N64-14148

MAO, L.-S.
HIGH ALTITUDE EFFECT ON EOSINOPHIL COUNT OF
PERIPHERAL BLOOD AND HYPOPHYSIS-ADRENAL SYSTEM
IN MAMMALS AND MAN
A64-81282

MARCHAL, M.

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE
TO LASER BEAM IRRADIATION

A64-22695

MARCHESSEAU
DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL
FRACTURES DCCURRING DURING FORCED OR FAULTY
LANDINGS IN FRANCE
A64-80285

MARCHIORI, C.
ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED
BY COMPLEMENTARY CORIOLIS ACCELERATION
A64-81120

MARCUS, S.
EXPOSURE OF MICE TO LOW TEMPERATURES FOR
SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TOR-63-9
N64-18874

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING
EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS
IN MOUSE PERIPHERAL BLOOD
AAI -TDR-63-3
N64-31934

MARETT, W. C.
BIDASTRONAUTIC RESEARCH CONDUCTED BY U.S. AIR
FORCE A64-12986

MARGARIA, R.
PERCEPTION OF MOTION, EQUILIBRIUM AND ORIENTATION
IN SPACE DURING WEIGHTLESSNESS A64-11429

OPERATION OF VESTIBULAR APPARATUS AND RELATED NERVE CENTERS UNDER CONDITIONS OF ZERO GRAVITY A64-24975

OXYGEN DISSOCIATION CURVES OF HEMOGLOBIN IN BLOOD SUBJECTED TO MATHEMATICAL ANALYSIS

A64-80127

BALANCE AND KINETICS OF ANAEROBIC ENERGY RELEASE
DURING STRENUOUS EXERCISE IN MAN

A64-80735

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO OXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS DIRECTIONS IN MAN A64-80891

OXYGEN CONSUMPTION AND RELATION TO HEART RATE DURING EXERCISE AT HIGH ALTITUDE

A64-81231

MARGULIS, V. YA.
PROBLEMS OF RADIATION DOSIMETRY IN X-RAY

DIAGNOSIS AND TREATMENT

BIOLOGICAL EFFECT OF HIGH FREQUENCY ELECTRO-MAGNETIC FIELD A64-80014

MARINER, R.
FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION OF ADENINE AND RIBOSE

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS NASA-RP-94 N64-13168

MARINESKU. V.
CARDIAC ARREST & RESUSCITATION JPRS-22010

N64-11225

MARINICHEV, A. A.

BIOINSTRUMENTATION WITH BARANY CHAIR FOR RECORDING ELECTROENCEPHALOGRAM DURING ROTATION A64-80754

MARITZ, J. S.

PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON PERFORMANCE OF PHYSICAL WORK A64-80399

CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION
AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN
MAN AND DOG
A64-81209

MARKOVNIKOVA, YE. B.
INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL
MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE N64-17171

MARKOWITZ, N. M.
THERMOCHEMICALLY SELF-PROPAGATING OXYGENGENERATING COMPOSITION USING LITHIUM PERCHLORATE, MANGANESE POWDER, & LITHIUM PEROXIDE AMRL-TDR-64-1 N64-18600

MARKUS, M.
INFECTION OF SPACECREW BY EXTRATERRESTRIAL MICROORGANISMS A64-81026

GENETIC TRANSFER AND MACROMOLECULE FINDINGS FOR TAXONOMY OF BACTERIA

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID FORMED BY BACILLUS SUBTILIS INFECTED WITH BACTERIOPHAGE SP8 N64-25880

BACILLUS SUBTILIS DEOXYRIBONUCLEIC ACID IN BACTERIOPHAGE LEAD SULFIDE TRANSDUCTION

N64-28111

MARRIOTT, F. H. C.
FOVEAL ABSOLUTE VISUAL THRESHOLD FOR SHORT LIGHT
FLASHES SUBTENDING SMALL AREA OF VISUAL FIELD A64-80123

MARSHALL, H. W. ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL DXYGEN CONCENTRATION AMRL-TDR-63-104 N64-16806

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY AMRL-TDR-63-105

N64-16807

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS AMRL-TDR-63-107

N64-16809

BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH

ORBITING STATION NASA-CR-56021

N64-25950

MARTELL, C. J.

MYDELECTRIC POTENTIALS USED TO OPERATE SERVO BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER A64-80553

MARTIN, F. N.
HEARING LOSS DETERMINED BY MODIFIED DOERFLERSTEWART TEST
A64-A64-80062

MARTIN, M. J. M.
INTERCORRELATION OF EXERCISE, BODY COMPOSITION,
FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND
ADRENAL WEIGHT IN RAT
A64-80785

MARTIN, P. J.
HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT
EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA A64-12941

MECHANICAL IMPEDANCE MODEL TO DEVELOP QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR HUMAN EXPOSURE TO DYNAMIC ACCELERATION

A64-27599

MARTIN, W. E. INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS IN SOUTHERN NEVADA UCLA-518

N64-12898

MARTON, T.

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MAN-MACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED AEROSPACE ENVIRONMENTAL CHAMBER AEDC-TDR-63-256

MARUKHANYAN, E. V.
SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

MARUYAMA, N.

OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM

MASHHOUR, M.
MOTION PERCEPTION - STUDY OF RELATIVITY, ERROR, AND SEX DIFFERENCES IN PERCEPTION OF VELOCITY, TIME. AND DISTANCE A64-80402

MOTION PERCEPTION - RELATION BETWEEN SUBJECTIVE VELOCITY, SPACE, AND TIME AS RELATED TO CORRESPONDING PHYSICAL VARIABLES

A64-B0464

MASHKOVSKIY, M. D.
DERIVATIVES OF DIPHENYLMETHANE, PROPANOL,
UNSATURATED TERTIARY ALCOHOLS, DIPHENAZIN, AND
NOSTYN FOR TREATMENT OF CENTRAL NERVOUS SYSTEM N64-15383

PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA-BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR ACTIVITY N64-15384

MASI. R.

UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN RADIOGRAPHIC STUDY OF EFFECT OF AGING ON VENTRICULAR STROKE AND PULMONARY CIRCULATION A64-81071

MASKALEV, Y. I.

LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION,
AND PATHOGENESIS OF RADIATION TUMORS JPRS-26532 N64-30613

MASLEN, K. R.
RATIO OF PURIFYING CIRCULATION FLOW TO BREATHING
FLOW FOR MAINTAINING ACCEPTABLE CARBON DIOXIDE
CONCENTRATION IN SPACE CABIN ATMOSPHERE RAE-TM-ME-273 N64-13337

MASLENNIKOVA, V. A.
INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN
LEVEL IN BLOOD OF ANIMALS
N64-13

MASLOV, V. I.
LONG-RANGE CONSEQUENCES OF ACUTE CARDIAC ARREST IN
SUCCESSFULLY RESUSCITATED PATIENTS
JPRS-22012 N64-11226

MASLOV, YE. P.
STATISTICAL SOLUTION OF NONLINEAR SYSTEM
N64-24705

MASLOVA, R. N.
EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF
DESOXYRIBONUCLEIC ACID AND PROTEINS
N64-18412

MASON, J. L.

MAN IN SPACE - FOOD, WATER, ENVIRONMENTAL
REQUIREMENTS, WASTE UTILIZATION AND LIFE SUPPORT
CVCTEMC A64-80788

MASSOPUST, L. C., JR.
HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN
RELAXANT CAT UNDER ACTION OF BARBITUATES AND
MUSCLE
A64-80365

ELECTRORETINGGRAM AND ELECTROENCEPHALOGRAM OF VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA
A64-81187

MASTERS, R. L.
EFFECTS OF ALCOHOL AND HYPOXIA ON HETEROPHORIAS REVIEW OF EXPERIMENTAL STUDIES
AD-433129
N64-17924

MASTRIUKOVA, V. M.
IONIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF
MITOSIS IN CORNEAL EPITHELIUM OF MOUSE

A64-81308

MASTRYUKOVA, V. M.
STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF
CELL DIVISION UNDER INFLUENCE OF IONIZING
RADIATION
N64-1690

MASUCCI, F. D.
MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES
FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22
N64-16574

MATARAZZO, J. D.
GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS
OF ASTRONAUTS
A64-13544

MATELL, G.
TIME COURSE OF BLOOD GAS CHANGES PROVOKED BY LIGHT
AND MODERATE EXERCISE IN MAN A64-80982

MATHENY, W. G.

EFFECT OF ADDING BODY MOTION CUES, PROVIDED BY
VEHICULAR MOTION, UPON THE INTERPRETATION OF
OUTSIDE-IN AND INSIDE-OUT VISUAL DISPLAY

A64-10260

MATHEWS, C. W.
STRESSES ON FLIGHT CREW IN SPACE FLIGHT
N64-11649

MATIN, L.
SINGLE AND DOUBLE MIRROR SYSTEMS USED IN CONTACT
LENS TECHNIQUES FOR MEASURING THREE ORTHOGONAL
COMPONENTS OF OCULAR ROTATION
A64-23796

MATOUSH, L. O.
EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN
SWEAT
REPT.-280 N64-23896

MATSUURA, A.
FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL
CONTROL
A64-80989

MATTHERN, R. O.
CONTINUOUS CULTURE TECHNIQUE FOR GROWTH OF ALGA,
CHLORELLA PYRENOIDOSA 7-11-05 AS SOURCE OF SPACE
FOOD A64-80466

MATTHEWS, F.

EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN
LIVER AND MARROW OF MICE IRRADIATED WITH FAST
NEUTRONS, GAMMA-, AND X-RAYS

USNRDL-TR-740

N64-27649

MATTONI, R. H.
BIOLOGICAL REGENERATION SYSTEM AS COMPONENT OF
LIFE SUPPORT SYSTEM FOR LUNAR BASE

N64-13714

MATTSON, R. H.
SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN
ELECTROENCEPHALOGRAPHY A64-25557

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FORCE CREWS AND RECRUITS A64-80947

MATUSEVICH, YE. S.
RADIATION SHIELDING OF HUMAN BEINGS FROM SOLAR
FLARE, RADIATION BELT, AND GALACTIC COSMIC
IONIZING RADIATION DURING SPACE FLIGHTS
JPRS-23306
N64-15327

MATUSSEK, N.
SLEEP-MAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE
AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF
HAMSTER
A64-81186

MATVEYEV, V. V.
INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS
OF SATELLITES DURING SPACE FLIGHT
N64-11686

MAXFIELD, M. E.

OXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL ENVIRONMENTS

A64-80111

HEART RATE AS INDICATOR OF CARDIAC STRAIN INDUCED BY MUSCULAR ACTIVITY IN NORMAL AND WARM ENVIRONMENTS A64-80112

IAYER, H. L.
THRESHOLD RANGE FOR EYEBURN DAMAGE FOR
EXOATMOSPHERIC NUCLEAR EVENT
A64-18366

MAYER, H. M.
CARBON DIOXIDE CONCENTRATION AS RELATED TO
PHOTOSYNTHESIS IN MASS CULTURE OF ALGAE
A64-80608

MAYER, W. V.
BIBLIOGRAPHY ON NATURAL MAMMALIAN HIBERNATION
AAL-TDR-63-34 N64-31936

MAYO, A. M.
GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH
ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A
SPACE-STATION LABORATORY
ATAA PAPER 63-140
A64-18471

LIFE SCIENCE RESEARCH REQUIRED TO ACHIEVE INTEGRATED MAN-MACHINE SYSTEMS A64-24401

MAN-MACHINE SYSTEM AND BIOINSTRUMENTATION APPLICABLE TO MANNED SPACE FLIGHT RESEARCH - A REVIEW A64-80485

MAYOU, R. A.
BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF
CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH
MODIFICATION BY ADRENALINE AND NORADRENALINE
A64-80326

BLOOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE
TO HYPOXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL
SYSTEM IN CAT A64-81245

MAYSKIY, I. N.

EFFECTS OF VARIOUS SERA ON MALIGNANT GROWTHS IMMUNOLOGY & RADIATION SICKNESS
JPRS-20040 N64-11354

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION N64-23455

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN

CONQUEST OF SPACE

N64-23751

MAYSTRAKH, YE. V.
CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE
HYPOTHERMIA PROCESSES
JPRS-24504
N64-

N64-20012

HYPOTHERMIA AND CESSATION OF VITAL ACTIVITY IN ORGANS OF NONHIBERNATING MAMMALS

JPRS-25650 N64-27503

MAZUR, M.
ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM
FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM
IN RABBITS
A64-80398

MAZZELLA, G.
PROTECTIVE MECHANISMS FOR ANOXIA ON BONE MARROW
GRAFTS IN WHOLLY IRRADIATED MICE WITH IONIZING
RADIATION
A64-24100

GROWTH OF BONE MARROW TRANSPLANT IN TOTALLY IRRADIATED MICE AFFECTED BY ANOXIA

A64-81121

MC ARTHUR, W. J.
CORONARY FLOW RESPONSE TO HYPOCAPNIA OF DOG
INDUCED BY HYPERVENTILATION A64-80829

MC CABE, B. F. MECHANISM OF MOTION SICKNESS IN CAT

A64-80234

STUDY OF VESTIBULAR SUPPRESSION PHENOMENA IN CATS
AMRL-TDR-63-119
N64-16810

MC CALL, C. M., JR.
CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST
A64-B0564

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS
SAM-TDR-62-110
N64-10558

C CALLY, M.

URINARY OUTPUT OF ADRENALINE AND NORADRENALINE,
PULSE RATE AND BLOOD PRESSURE OF SUBJECTS AFTER
WATER IMMERSION STUDIED, TO DETERMINE THE
SYMPATHOADRENAL RESPONSE AND ORTHOSTATIC TOLERANCE

PROLONGED WEIGHTLESSNESS AND DISUSE EFFECTS ON CARDIOVASCULAR DECONDITIONING AND BODY FLUID DISTRIBUTION A64-28340

SPACE FLIGHT IMPLICATIONS OF PLASMA VOLUME RESPONSE TO WATER IMMERSION A64-80176

URINARY ADRENALINE AND NORADRENALINE RESPONSE TO SIMULATED WEIGHTLESS STATE A64-80200

MC CAMBRIDGE, J. J.
TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR
TITAN II
A64-80273

TITAN II

MC CAM, B. K.
FORMATION OF GUANINE DURING THERMAL POLYMERIZATION
OF AMINO ACIDS
A64-16287

MC CLELLAN, R. O.
DEGREE OF RETENTION IN MINIATURE SWINE OF
INGESTED AND INTRAVENOUSLY INJECTED
RADIONUCLIDES USED IN SNAP /SYSTEM FOR
NUCLEAR AUXILIARY POWER/ PROGRAM

RADIATION HAZARDS IN HIGH POWER RADAR

A64-80839

A64-80076

MC CONVILLE, J. T.
STATISTICAL ANALYSIS OF PILOT HEIGHT-WEIGHT DATA
FOR SIZING OF PROTECTIVE CLOTHING
AMRL-TDR-64-66 N64-3184

MC CORMACK, P. D.
OBSERVATION OF POSITIVE SKEW IN REACTION TIME
DISTRIBUTIONS A64-80902

MC COY, M. K., JR.

OPERATOR PERFORMANCE STUDY IN ORBITAL RENDEZVOUS
TASK USING PREDICTOR DISPLAY
AMRL-TOR-64-55

N64-27445

MC CREADY, D. W., JR.
PUPIL RESPONSES TO LIGHT FLASHES VARYING IN
DURATION AND INTENSITY A64-12928

MC CULLOCH, W. S.
PROBABILISTIC AUTOMATA PROPOSED AS MODEL TO HANDLE
CIRCUIT ACTION OF RETICULAR FORMATION
A64-24821

NEUROPHYSIOLOGY - THEORY OF CENTRAL NERVOUS SYSTEM FUNCTION, AND OPTICAL PHENOMENA N64-17885

DERIVING THEORY OF RETICULAR FORMATION FROM SWITCHING THEORY, MATHEMATICAL LOGIC, AND NONLINEAR CONTROL THEORY CONSIDERATIONS ERL-8-0009-622 N64-28916

PASSIVE ION FLUX THROUGH AXON MEMBRANES

N64-2953B

MC CUTCHEON, R. S.
BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF
DIMETHYLHYDRAZINE
AMKL-TDR-63-127
N64-16584

MC DONALD, J. K.
HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY
PLASMA AMINOPEPTIDASES
NASA-RP-236
N64-26710

MC DONALD, L. W.
BRAIN INJURIES FOLLOWING ALPHA PARTICLE
IRRADIATION OF PITUITARY GLAND
N64-15206

RADIATION THERAPY OF BRAIN TUMOR WITH HIGH ENERGY ALPHA PARTICLE BEAM FROM LARGE SYNCHROCYCLOTRON N64-22865

MC DOWELL, M. E.

COMPOSITION AND FOOD VALUE OF ALGAE FOR USE IN

SPACE FLIGHTS

A64-80038

WATER AND FOOD SUPPLY TREATMENT OF HASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT

MC ELROY, L. S.
INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED
STRESS
REPT.-1129
N64-22557

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION NAVTRADEVCEN-789-2 N64-26892

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRADEVCEN-789-3 N64-32037

MC FADDEN, E. B.
HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER
EVACUATION FROM SURVIVAL ACCIDENTS
SAF PAPER 8518
A64-20760

MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT CARI-63-9 N64-23617

WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS - EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS AD-602207 N64-32066

MC FADDEN, N. M.
PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND
WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519

MC FARLAND, J. H.
MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL
LOCALIZATION OF VISUAL STIMULI IN UP-DOWN
DIMENSION OF SPACE
A64-20690

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON

PERCEIVED LOCATION OF VISUAL STIMULI

A64-80496

EXTRAOCULAR FEEDBACK IN BINOCULAR RIVALRY

A64-80744

MC FARLAND, R. A.
ACCIDENT RESEARCH REVIEWED AND CRITICIZED IN AREAS
OF CAUSATION AND PREVENTION
A64-80459

BIOASTRONAUTICAL CONTRIBUTIONS TO MEDICINE N64-30343

MC GINTY, G.
CYCLIC RADIATION DOSE RATE EFFECT ON RAT
HEMATOPOIETIC SYSTEM
N64-25310

MC GOWAN, R.
CHRONIC HIGH PRESSURE DXYGEN TOXICITY EFFECT ON
RATS
A64-22058

NEUROMUSCULAR AND RESPIRATORY DISTURBANCES IN RATS EXPOSED TO DXYGEN AT HIGH PRESSURE

A64-80629

LACK OF PREDICTABILITY IN RATS TO EXHIBIT CHRONIC
OXYGEN POISONING
NADC-MA-6324
N64-1536

MC GRATH, J. J.
GEOGRAPHIC ORIENTATION & DISORIENTATION OF
AIRCRAFT PILOTS
TR-751-1
N64-13608

GEOGRAPHICAL ORIENTATION DURING LOW ALTITUDE
N64-31509

MC GREGOR, M.
ARTERIAL CARBON DIOXIDE TENSION - EFFECT ON FLOW
RESISTANCE AND MECHANICS OF LUNG IN MAN DURING
VOLUNTARY HYPERVENTILATION
A64-80740

MC GUIRE, R.
DESIGN AND FABRICATION OF MASK AND HELMET FOR
CHIMPANZEE RESPIRATORY SYSTEM RESEARCH
ARL-TDR-64-3
N64-21311

MC HUGH, J. G.
SIMULATOR STUDY OF HUMAN PERFORMANCE DURING
LOW ALTITUDE, HIGH SPEED FLIGHT
TRECOM-TR-63-52
N64-16648

MC ILROY, M. B.
VENTILATORY EXCHANGE RATIO DURING EXERCISE AS
RELATED TO CARDIOPULMONARY FUNCTION AND
METABOLIC ACIDOSIS
A64-80

MC INNIS, P. R.
TESTING HEART FUNCTION BY ANALYSIS OF ITS
PRECORDIAL VIBRATION SPECTRUM
NASA-CR-53818
N64-19313

MC INTYRE, J.
REMINISCENCE IN PURSUIT ROTOR PERFORMANCE AS
AFFECTED BY INTERPOLATED MONOCULAR AND BINOCULAR
VISUAL PURSUIT
A64-12934

SITE OF TEMPORARY WORK DECREMENT IN PURSUIT ROTOR PERFORMANCE A64-12935

MC IVER, R. J.
CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS
TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL
DECOMPRESSION SICKNESS, BOTH CAISSON AND ALTITUDE
TYPES
A64-19135

CARDIORESPIRATORY RESPONSES OF ANESTHETIZED DOGS TO COMPRESSION THERAPY FOLLOWING EXPERIMENTAL DECOMPRESSION SICKNESS SAM-TDR-63-94 N64-1574

MC KAY, R. H.
ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL
PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC
DEHYDROGENASES
PUBL.-281
N64-28295

MC KENDRY, J. M.
IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS

BY USE OF TRAINING AIDS NAVTRADEVCEN-1105-1

N64-29280

MC KENDRY, M. S.
IMPROVING PROFICIENCY OF FIRE CONTROL TECHNICIANS
BY USE OF TRAINING AIDS
NAVTRADEVCEN-1105-1
N64-29280

MC KENZIE, R. E.
HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE,
OXYGEN RICH ATMOSPHERE
A64-80323

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST
A64-80564

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS SAM-TDR-62-110 N64-10558

MC KOWN, D. A.
BIBLIOGRAPHY ON TRITIUM RADIATION PROTECTION
LAMS-2946
N64-18094

MC LANE, R. C.
PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE
PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM
MANUALLY CONTROLLED VEHICLES
A64-23300

MC LEOD, J.

COMPUTER SIMULATION OF CARDIOVASCULAR SYSTEM
HYDRODYNAMICS

A64-80209

MC LEOD, M. C.
GRAVITATIONAL EFFECT ON CUPULA DISPLACEMENT
NASA-CR-56791
N64-27891

MC MANN, H. J.
VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS
OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE
SUITS
SAM-TDR-63-59
N64-12855

MC MENEMEY, W. H.
SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA
N64-14580

MC MICHAEL, A. E.
EMOTIONAL INSTABILITY AND SUSCEPTIBILITY TO MOTION
SICKNESS MEASURED BY PSYCHOLOGICAL TESTS,
INCLUDING THE RORSCHACH

A64-10249

PSYCHOLOGICAL TESTING OF EMOTIONAL FACTORS IN SUSCEPTIBILITY TO MOTION SICKNESS

N64-22437

MC NAMARA, B. P.
TOXICOLOGY - ACTION OF DRUGS ON ANIMALS

N64-24612

MC NAMARA, H. J.
MOTIVATIONAL INTENSITY AND RELEVANCE EFFECT ON
ATTENTION SPAN AND SCANNING
A64-81147

MC NEELY. G. B.
ROLE AND QUALIFICATIONS OF FLIGHT SURGEON IN
AEROSPACE MEDICINE
A64-80756

MC NEIL, J. S.
PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
AD-604369
N64-32865

MC NERNEY, J. M.
KEROSENE AND OTHER HYDROCARBON POISONING IN RATS
A64-80001

MC NULTY, J. A.
TERRAIN EFFECT UPON PERCEIVED DISTANCE

A64-81330

MC NUTT, D. C.
TIME SPENT AT ALTITUDE, AGE, AND WEIGHT AS RELATED
TO DECOMPRESSION SICKNESS
A64-80950

MEAD, J.

RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF RESPIRATORY SYSTEM IN MAN IN SEATED POSTION

A64-80699

STATIC VOLUME-PRESSURE CHARACTERISTICS OF

RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN RELATION TO MUSCLE TONUS A64-81000

MEADE, J. H., JR.
HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY
NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA
PECTORIS
A64-81077

MEADOMS, W. R.
THORACIC AND ABDOMINAL MASS LOADING EFFECT ON
VOLUME PRESSURE CURVES IN CONSCIOUS AND
ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-80997

464-24393

A64-80477

MEDER, J.
ELECTRORETINOGRAM AND ELECTROENCEPHALOGRAM OF
VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA
A64-81187

MEDER, R.
HYPOTHERMIC EFFECT ON CORTEX AND BRAIN STEM IN
RELAXANT CAT UNDER ACTION OF BARBITUATES AND
MUSCLE
A64-80365

MEDINA, M. A.

EFFECTS OF ARGININE, L-GLUTAMATE AND PYRIDOXINE ON
TOXICITY OF AEROZINE
SAM-TDR-64-49

N64-31052

MEDOVAR, B. YA.

PROTECTIVE AND THERAPEUTIC ANTIRADIATION & ANTIOXIDATION PROPERTIES OF VARIOUS POLYPHENOL
STRUCTURES - CHEMOTHERAPY
JPRS-23567
N64-16543

MEDVEDEV, B. A.
PHARMACOLOGICAL BLOCKING EFFECT OF METHYL DIAZA—
BICYCLONONANE DERIVATIVES ON NEUROMUSCULAR
ACTIVITY
N64-15384

MEDVEDEV, V. I.

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF
ATTENTION, DISCRIMINATION, PERCEPTION - DATA
PROCESSING
N64-12505

MEDVEDEV, YU. A.
TOXIC EFFECT OF ISOPROPYL-BENZENE HYDROXIDE
APPLIED TO SKIN OF RABBIT
A64-81100

MEDVYED, L. I.
EXPERIMENTAL TOXICOLOGY OF CERTAIN ORGANIC
PHOSPHORUS INSECTICIDES

JPRS-22450 N64-11874

CENTRIFUGES USED TO TEST ACCELERATION VARIABLES
AND EFFECTS ON HUMAN ORGAN SYSTEMS

ENTOPIC VISUAL PHENOMENA /PHOSPHENE/ PRODUCED BY ACCELERATION STRESS A64-8017

PHYSIOLOGICAL AND PSYCHOLOGICAL ASPECTS OF ACCELERATION STRESS IN SPACEFLIGHT - A REVIEW

MEEKER, F. 8.
PHOTO INTERPRETATION PERFORMANCE AS FUNCTION

PHOTO INTERPRETATION PERFORMANCE AS FUNCTION
OF PHOTOGRAPHIC RESOLUTION AND CONTRAST
N64-10529

MEGEVAND, R.
HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART
FUNCTION A64-80408

MEGIGHIAN, D.
ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED

BY COMPLEMENTARY CORIOLIS ACCELERATION

A64-81120

EXPERIMENTAL ULTRAFILTRATION SYSTEM FOR RECOVERING POTABLE WATER FROM URINE USING MEMBRANE FILTERS AMRL-TDR-63-113 N64-14695

MEIGHAN, T. W.
VIGILANCE PERFORMANCE IN COMPLEX TASK SITUATIONS
AND WITH PARTIALLY REDUNDANT CUTANEOUS INFORMATION
INPUT
A64-80618

MEIJNE, N. G.
OXYGEN INTOXICATION UNDER NORMAL AND INCREASED
ATMOSPHERIC PRESSURE
A64-80221

MEINERI, G.
SPACE FLIGHT PROBLEMS OF SUBGRAVITY TACKLED BY
SIMULATION METHODS AND BY ACTUAL METHODS WITH
RESULTS ON PSYCHOMOTOR BEHAVIOR OF SUBJECTS AND ON
SPACE-ORIENTATION FUNCTION OF THE LABYRINTH
A64-11435

MEINSCHEIN, W. G.
METEORITIC INVESTIGATIONS FOR DETECTING
EXTRATERRESTRIAL LIFE, PARTICULARLY EXAMINATION OF
CARBONACEOUS CHONDRITES
A64-10876

CARBONACEOUS MATERIAL IN TERRESTRIAL SAMPLES AND ORGUEIL METEORITE FOR EVIDENCE OF EXTRATERRESTRIAL LIFE A64-14781

HYDROCARBONS OF TERRESTRIAL SAMPLES AND ORGUEIL METEORITE ANALYZED, SHOWING THAT ALKANES ARE BEST INDICATORS OF FORMER LIFE ON EARTH

AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL
METEORITE PARENT BODY AND SUSTENANCE OF LIFE

A64-80451

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS
METEORITES TO THOSE IN MARINE SEDIMENTS EVOLUTION OF LIFE N64-19584

ORGANIC COMPOUND ANALYSIS - LIFE DETECTION METHOD FOR SPACE NASA-CR-52217 N64-20682

HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE - GAS CHROMATOGRAPHY OF ALKANES
NASA-CR-50703 N64-22761

BIOTIC AND ABIOTIC HYDROCARBON ANALYSIS FOR DETECTION OF LIFE IN SPACE NASA-CR-53096 N64-23392

HYDROCARBON ANALYSIS AS MEANS OF DETECTING LIFE IN SPACE - ABIOTIC, BIOLOGICAL, SEDIMENTAL, AND METEORITIC ALKANES
NASA-CR-58500
N64-29202

MEISSINGER, H. F.
CLOSED CIRCUIT TELEVISION DISPLAY SYSTEM FOR
REMOTE CONTROLLED LUNAR LANDING SIMULATION
A64-27808

CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO PARAMETER DETERMINATION OF TIME VARYING HUMAN PILOT MODELS NASA-CR-56374 N64-23993

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS
NASA-CR-56362
N64-24040

AUTOMATIC COMPUTER METHODS FOR DETERMINING
PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY
LINEAR TIME-INVARIANT MODEL
NASA-CR-56373
N64-27385

MEISTER, D. HUMAN ENGINEERING - BIBLIOGRAPHY EETC-7, REV. A

N64-20559

SEDIMENTATION RATES OF NUCLEATED AND NONNUCLEATED
CELLS OF NORMAL RAT BONE MARROW
N64-15210

DROPLET SEDIMENTATION IN CONTINUOUS FLOWING SYSTEM TO CONTROL ENZYME-SUBSTRATE REACTION BY DIFFUSION AND GRAVITY N64-15211

ELECTROPHORETIC BEHAVIOR OF FIXED RAT RED BLOOD
CELLS
UCRL-10898
N64-2285

ELECTROPHORESIS CONCENTRATION OF SEPARATED SERUM PROTEIN FRACTIONS N64-22856

FREE STREAM FRACTIONATION OF CELLS IN RAT BONE

MARROW

N64-22857

MELESHKO, G. I.
TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS A64-25588

PHOTOSYNTHETIC PRODUCTIVITY OF CHLORELLA CULTURE INCREASED TO OBTAIN MORE OXYGEN IN AIR REGENERATION SYSTEM A64-2560 464-25609

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754

INCREASE IN PHOTOSYNTHETIC PRODUCTIVITY OF N64-23775 CHLORELLA CULTURE

MELIK-MUSYAN, A. B.
EFFECT OF IONIZING RADIATION ON RETINA AND OTHER
PHOTOSENSITIVE SYSTEMS
N64-2234 N64-22343 FTD-TT-63-163/18284

MELNIKOVA, N. D. TOXIC EFFECT OF TETRAETHYL LEAD ON VISUAL APPARATUS IN INDIVIDUALS A64-81101

MELNIKOVA, R. N.
TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND
MELAMINE-FORMALDEHYDE RESINS
N64-2 N64-25462 FTD-TT-64-97/1&4

MELNIKOVA, V. A. ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE PROPAGATION VELOCITIES IN ARTERIES

MELSE, J. L.

ELECTRONIC SIMULATION OF BICLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS

ASD-TDR-63-136

MELTON, A. W. IMPLICATIONS OF SHORT-TERM MEMORY FOR GENERAL THEORY OF MEMORY REPT -- 2900-410-R N64-10553

MELVILLE, G. S., JR.
RADIATION PROTECTION FOR MONKEY WITH L-CYSTEINE AND AMINOETHYLISOTHIURONIUM DIBROMIDE SAM-TDR-64-40 N64-32031

NEUROPSYCHOLOGICAL EFFECTS OF EARLY SENSORY RESTRICTION ON DOG A64-80493

MENDEL, L.
HABITUATION, EFFERENCE, AND VESTIBULAR INTERPLAY A64-80305

VESTIBULAR HABITUATION ACHIEVED BY UNIDIRECTIONAL A64-80384 ROTATION

MENDELSON, J. H. VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS

A64-80799

N64-30393

MENGEL, C. E.
VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES
CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE OXYGEN EXPOSURE

LIPID PEROXIDATION EFFECT ON LYSIS OF ERYTHROCYTES, GLYCOLYSIS AND OTHER METABOLIC SYSTEMS, DISCUSSING ITS RELATION TO DXYGEN TOXICITY A64-25550

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE OXYGEN UNDER HIGH PRESSURE A64-80920

MENITSKIY. D. CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE N64-11417

MENSHIKOV, V. V.
PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES N64-24563 MENYUK, P. COMPARISON OF GRAMMAR OF CHILDREN WITH FUNCTIONALLY DEVIANT AND NORMAL SPEECH

N64-25608

MERCEIR. INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF GLAUCOMA INCIDENCE IN AVIATORS A64-2 A64-20700

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL A64-80506

MERCHANT, J.
BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN AND ENGINEERING - BIOINSTRUMENTATION NASA-CR-76 N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NASA-CR-58560 N64-29546

MERCIER, A. VISUAL PROBLEMS OF SPACE FLIGHT AND EXPERIENCE OF RUSSIAN AND AMERICAN ASTRONAUTS A64-80278

MEREDITH, G. M.
SEMANTIC ATTRIBUTES OF HOMOGENEOUS VISUAL AND
RIVALRY FIELDS A64-8 A64-81214

MEREDITH, G. N.
SEMANTIC ATTRIBUTES OF HOMOGENEOUS VISUAL AND
RIVALRY FIELDS A64-8 A64-81214

ABDOMINAL VISCERA, BODY WEIGHT, AND BLOOD-FORMING ORGANS OF MICE AS AFFECTED BY ELECTRON RADIATION AND POSSIBLE MEANS OF PROTECTION A64-80824

MERKULOV, U. L. HUMAN PERCEPTION OF ENVIRONMENTAL SPACE-TIME RELATIONSHIPS

MERKUSHKIN, IU. G.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
A64-2558 SPACE FLIGHT

MERLINI, M.
SEMIAUTOMATIC QUANTITATIVE DETERMINATION OF TRACE ELEMENTS IN BIOLOGICAL MATERIALS BY ACTIVATION ANALYSIS & STUDIES ON BIVALVE MOLLUSK N64-15672

MERMAGEN, H.

GLASS MICRODOSIMETER ROD MEASUREMENT OF RADIATION
DOSE WITHIN TISSUE N64-31059 UR-651

MERRIAM, T. W., JR.
CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN TO GRADED TREADMILL EXERCISE A64-80516

PENTABORANE TOXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION A64-80204

MERZARI, A. H. QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI

MESAROVIC, M. D.
MULTILEVEL APPROACH TO SIMULATION OF BIOLOGIC
SYSTEMS - HEURISTIC THEOREM PROVING

MESHCHERSKIY, R. M.
ANALYTICAL METHODS OF ELECTROENCEPHALOGRAPHY FOR MEDICAL DIAGNOSIS JPRS-23590

MESKAUSKAS, J.
RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY

SODIUM SULFITE OR THIAZOLIDINE TREATMENT

N64-13506

MESS, B.
COLD RESPONSE OF THYROID IN HEAT-ADAPTED RAT FOLLOWING BILATERAL LESION OF HABENULAR NUCLEI A64-80880

MESTYAN. J.

METABOLIC RESPONSE TO COLD AND RELATIONSHIP BETWEEN BODY TEMPERATURE AND BASAL METABOLIC RATE
OF UNDERFED RAT
A64-80903 A64-B0903

EXAMINATION OF GROUND SQUIRREL EXCRETION FOR ANIMAL & BACTERIAL VIRUSES N64-13988 TN-62-12

INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL N64-19557 TECH. NOTE-63-2

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS INFECTIONS IN ALASKAN GROUND SQUIRREL AAL-TDR-63-25 N64-31 935

METER, I. D.

ANTIBIOTIC THERAPY OF RADIATION SICKNESS IN MICE STREPTOMYCIN EFFECTIVENESS, TREATMENT TIMING,
HINDERING FACTORS, AND DETOXICATING MIXTURE JPRS-22625

EYE MOVEMENTS RECORDED DURING VIGILANCE

A64-80795

EMPTY VISUAL FIELD STUDY - EFFECTS OF CORRECTIVE FILTERS AND STRUCTURES
NAVTRADEVCEN-IH-14 N64-28902

METLITSKIY, L. V.
IONIZING RADIATION AS A FOOD PRESERVATIVE JPRS-17530 N64-10694

METZ. B.

HEAT PROTECTIVE CLOTHING

A64-80317

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES

A64-80 A64-80697

BIOLOGY IN PLANETARY & SPACE ENVIRONMENTS - AMINO ACID AND PROTEINOID STUDIES NASA-CR-50483 N64-22775

EMERGENT ORGANIC CHEMISTRY UNDER VARIOUS PLANETARY CONDITIONS - ABIOGENESIS, PLANETARY ATMOSPHERES, PLANTS, CHROMOSOMES, & FERTILIZATION PHYSIOLOGY NASA-CR-56526

ORGANISMS UNDER TERRESTRIAL AND EXTRATERRESTRIAL **ENVIRONMENTS**

NASA-CR-56527

N64-22788

MEYER, M. E. STIMULUS CONTROL FOR BIRD ORIENTATION AND NAVIGATION A64-81175

MEYERS, F. H.
MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND
HYDRAZINE COMPOUNDS AMRL-TDR-64-26 N64-22373

MEYERSON. F. Z.

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM N64-23204 NASA-TT-F-173

MEYSEL, M. N.
RECOVERY OF REPRODUCTION CAPACITY OF X RAY IRRADIATED YEAST CELLS JPRS-21619 N64-10118

LUMINESCENT MICROSCOPY OF HEMATOPOIETIC SYSTEMS USING IONIZING RADIATION JPRS-22915 N64-14148

MIASNIKOV. V. I.
CHANGES IN FREQUENCY AND ALPHA RHYTHM AMPLITUDE IN ELECTROENCEPHALOGRAM OF HUMAN SUBJECT DURING

PROLONGED CONFINEMENT FOR VARIOUS ACTIVITY A64-16846 SCHEDULES.

LATENT PERIOD OF MOTOR RESPONSE OF MAN UNDER ISOLATION CONDITIONS NOTING ROLE OF ORIENTING REFLEX A64-25592

MICHAEL, E. D., JR.
CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING
PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED INDIVIDUAL

MICHAELSON, S. M.
THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE
PERSONNEL INCLUDING THOSE IN TECHNOLOGY

MICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE CHANGES RELATED TO FREQUENCY, FIELD INTENSITY AND EXPOSURE DURATION A64-

NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG A64-80332

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROWAVE A64-80685

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-80830

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE RADC-TDR-63-352

RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA DURING HIGH ALTITUDE ACCLIMATIZATION

MICHEL, E. L.
RAPID DECOMPRESSION HAZARDS AFTER PROLONGED
EXPOSURE TO 50 PER CENT OXYGEN-50 PER CENT
NITROGEN ATMOSPHERE
A6-464-10259

ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS INVOLVED IN SELECTION AND VALIDATIONS OF ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND APOLLO MISSIONS A64-13517

EFFECTS ON DECOMPRESSION SICKNESS OF BREATHING OXYGEN OR OXYGEN-NITROGEN MIXTURES PRIOR TO RAPID DECOMPRESSION AND PROLONGED LOW PRESSURE

N64-15856

MICKELSEN, O.

SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE IN URINARY RIBOFLAVIN OF HUMAN A64-80876

MICOCCI, A.
MAINTENANCE OF VIGILANCE IN AN AUDITORY MONITORING TASK

A64-80203

MIESZKUC, B. J.
RESISTANCE OF MICE TO RESPIRATORY INFECTION AFTER EXPOSURE TO ALTITUDE OF 35,000 FEET - SPACE CABIN **ENVIRONMENT** N64-22506 SAM-TDR-64-9

MIGLER, B. M.
LONG-TERM HUMAN BEHAVIOR STUDY IN PROGRAMMED **ENVIRONMENT** NASA-CR-52913

N64-11825

MOTOR SENSORY FEEDBACK AS RELATED TO SELF-PRODUCED MOVEMENT IN ADAPTING TO PRISM-PRODUCED VISUAL FIELD REARRANGEMENT A64-80581

TWO ADAPTATION PROCESSES TO ACTIVE AND PASSIVE EXPOSURE TO OPTICALLY ROTATED VISUAL FIELD A64-80933

MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

MIKAMI, T.

CORTICAL POTENTIALS EVOKED BY PHOTIC STIMULATION AT VARIOUS LEVELS OF RETINAL ADAPTATION IN MAN

A64-80003

MIKHAYLOV, N. N.
OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH
FORECASTING
N64-24707

MIKHAYLOVA, L. N.
ELECTRON MICROSCOPE INVESTIGATION OF CARTILAGE
CELL DIFFERENTIATION IN REGENERATING BONE

N64-12497

MILEKHINA, M. M.

DETERMINATION OF KINETICS OF DIFFUSION AND OSMOSIS
USING RADIOACTIVE ISOTOPES N64-30395

MILERIAN, E. A.
EXERCISE AND SPACE THRESHOLD OF THE TACTILE
DIFFERENTION
A64-80192

RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN
A64-80312

RELATIONSHIP BETWEEN RESPIRATORY WORK AND ARTERIAL CARBON DIOXIDE TENSION 464-80456

MILKHIKER, M. A.
AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS
JPRS-25765 N64-27059

MILKO, YE. S.

OPTIMIZATION OF ILLUMINATION AND TEMPERATURE
EFFECT ON CHLOROPHYLL CONCENTRATION OF DUNALIELLA
SALINA CELLS

N64-23657

MILLARD, W. M.

RECTAL TEMPERATURE OF WORKING SLED DOGS IN LOW
TEMPERATURE ENVIRONMENT
AAL-TDR-63-40

N64-13633

MILLARD, W. W.

ACCUMULATION OF STATIC ELECTRICITY ON ARCTIC
CLOTHING WITH DECREASE IN TEMPERATURE AND HAZARD
OF EXPLOSIVE GAS-AIR MIXTURES IGNITING BY
ELECTROSTATIC DISCHARGE

A64-13523

MILLEDGE, J. S.
RESPIRATORY RESPONSE TO HYPOXIA AND HYPERCAPNIA DURING HIGH ALTITUDE ACCLIMATIZATION

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO OXYGEN INTAKE, VENTILATION, AND HEART RATE

A64-80515

MILLER, A. K.

CONTROLLED CONTAMINATION OF SEALED ELECTRONIC
COMPONENTS FOR STUDY OF SPACECRAFT STERILIZATION
PROCEDURES
SAM-TDR-63-73
N64-2504

MILLER, C. E.
SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD
IN EARTH ORBIT
SSD-TOR-64-1 N64-191

MILLER, E. F., II
ROTARY AUTOKINESIS AND DISPLACEMENT OF THE VISUAL
HORIZONTAL ASSOCIATED WITH HEAD AND BODY POSITION
NACE-1130

EFFECT OF BODY POSITION, VISUAL REFERENCE CUES, AND TIME UPON JUDGEMENT OF VISUAL HORIZON NASA-CR-55618 N64-15351

INFLUENCE OF VESTIBULAR ORGANS ON ABILITY TO ALIGN VISUAL TARGET WITH HORIZONTAL NASA-CR-55616 N64-15354

EFFECTS OF UNUSUAL GRAVITATIONAL AND INERTIAL FORCE ENVIRONMENT ON VESTIBULAR AND VISUAL SYSTEMS NASA-CR-56080 N64-20729

MILLER, H.
EDEMA AT HIGH ALTITUDE IN RELATION TO
CARDIOVASCULAR PHYSIOLOGY
A64-80276

MILLER, J. D.
NOISE INDUCED DEAFNESS IN CAT A64-80308

MILLER, J. G.
MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION
BEHAVIOR IN RELATION TO ANXIETY AND SHOCK
A64-8015

MILLER, J. M.
SMALLPOX IMMUNITY SURVEY AT LARGE INTERNATIONAL
AIRPORT
A64-80097

MILLER, J. W.

HEAD MOUNTED ELECTROCULAR DISPLAY SYSTEM COMPARED
WITH CONVENTIONAL CONSOLE DISPLAY FOR TARGET
DETECTION

A64-24831

COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287 N64-13846

GEOGRAPHICAL ORIENTATION, OPERATIONAL PROBLEMS, HUMAN PERFORMANCE DURING VIBRATION, AND PHYSICAL AND GEOMETRIC PARAMETERS AFFECTING VISIBILITY IN LOW ALTITUDE HIGH SPEED FLIGHT ACR-95 N64-3150

HILLER, N. D.

DELIVERY APPARATUS FOR HIGH INTENSITY FLASHES FROM XENON-FILLED FLASH TUBE

SAM-TDR-64-36

N64-33352

VISUAL RECOVERY FROM EXPOSURES TO VERY HIGH ILLUMINANCE FLASHES TDR-2

MILLER, P. B.
TWO WEEK BED REST EFFECT UPON CARDIOVASCULAR
REFLEXES, ORTHOSTATIC TOLERANCE AND SYNCOPAL
REACTIONS IN MAN
A64-27597

MILLER, P. S.

LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF
RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS
AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL
COMPONENT

A64-8102

MILLER, R. L.

EFFICIENCY IN PHOTOSYNTHESIZING ALGAL CULTURES
INCREASED, USING PHOTOSYNTHETIC GAS EXCHANGER WITH
FLASHING LIGHT EFFECT

A64-16191

MILLER, S.
HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION
IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

MILLIEZ, P.
KIDNEY DISEASES WHICH PREVENT PILOT TRAINING
A64-80804

MILLS, R. J.
RESPIRATORY FREQUENCY AND COMPLIANCE AT DIFFERENT LUNG VOLUMES A64-80108

MILLSPAUGH, R. E.
OUTLINE FOR PHOTO INTERPRETATION COURSES AND
SELECTION AND TESTING OF STUDENTS
N64-10536

MINARD, D.

PHYSIOLOGIC AND MEDICAL ASPECTS OF PROTECTIVE

SHELTER HABITABILITY UNDER SURVIVAL CONDITIONS

A64-80007

MINAYEV, P. F.
IONIZING RADIATION - EFFECT ON NERVOUS SYSTEM AND
CHANGES IN NEURAL TISSUE DUE TO IRRADIATION
JPRS-20317
N64-11136

MINDRUM, G.
PENTABDRANE INTOXICATION DIAGNOSED WITH
ELECTROENCEPHALOGRAM AND OTHER MEANS AND TREATMENT
TECHNIQUE
A64-81046

MINNERS, H. A.
PILOCARPINE MIOSIS AS CHORIORETINAL BURN
PROTECTION FROM HIGH INTENSITY LIGHT TO STUDY
VISUAL ACUITY
A64-22056

PILOCARPINE INDUCED MIOSIS AND PROTECTION OF

RETINA AGAINST THERMAL RADIATION

A64-80626

MINUCCI, P. K.
REACTION TIME UNDER THREE VIEWING CONDITIONS BINOCULAR, DOMINANT EYE, AND NONDOMINANT EYE
A64-8 A64-80229

MIRAKHMEDOV, A. K.
EFFECT OF GAMMA RADIATION ON HISTOLOGICAL AND
HISTOCHEMICAL STRUCTURES OF RAT SEX GLANDS
N64-JPRS-22017 N64-10664

MIRKIN. A. S. NO CONTACT MECHANOGRAMS USING HALL EMF PICKUP A64-80535

MIRLOEV, M. M.
RIBOFLAVIN, VITAMIN E, BIOTIN, FOLIC ACID AND
EFFECT ON ADRENAL CORTEX FUNCTION AT HIGH ALTITUDE A64-81281

MIROLIUBOV, G. P.
LANDING IMPACT STRESS TOLERANCE OF ANIMALS IMMERSED IN WATER, MOTING CARDIOVASCULAR AND RESPIRATORY SYSTEM DISTURBANCES

A64-25597

PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING IMPACT OVER LOADS, INCLUDING CARDIDVASCULAR SYSTEM

MIROLYUBOV, G. P. LANDING IMPACT STRESS ON ANIMALS IMMERSED IN WATER

MIRONOV, P. S. VIBROGRAPH MEASUREMENT OF OVERALL VIBRATION N64-22730

MIRRAKHIMOV. M. M. PHYSIOLOGICAL MECHANISM OF ADAPTATION TO HIGH ALTITUDE A64-81274

MISHCHENKO, B. A.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC

A64-25585

MISHIM, L. N.
APPARATUS FOR CORRELATIVE ANALYSIS OF PHYSIOLOGICAL PROCESSES JPRS-18899

N64-11430

MISSIURO, WL.

PHYSIOLOGICAL AND PSYCHOGENIC ASPECTS OF ACUTE,
SUBACUTE, AND CHRONIC FATIGUE

A64-80 A64-80930

MITARAI, ACCLIMATIZATION AND OTHER EFFECTS OF ANOXIA VIA EEG, HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS OF THE VISUAL CORTEX OF RABBITS

HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX A64-80314

MITCHELL, D. L. SPECTROMETER FOR DIRECT MEASUREMENT OF WAVELENGTH DERIVATIVES OF SPECTRAL CURVES N64-17218

MITCHELL. L. T. FREE STREAM FRACTIONATION OF CELLS IN RAT BONE N64-22857

MITCHELL, P. W. D. REGENERATION OF CARBOHYDRATES IN CLOSED CIRCUIT RESPIRATORY SYSTEM NASA-CR-52972

MITCHELL, R. A.

CEREBROSPINAL FLUID EFFECTS ON HIGH ALTITUDE RESPIRATORY ACCLIMATIZATION OF MAN A64-23261

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH A64-80114 MITCHELL, R. E.
PROLONGED SOLAR RADIATION EFFECT ON MELANDCYTES OF HUMAN EPIDERMIS 464-80534

MITHOEFER, J. C.
HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN
VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED SUBJECTS A64-23260

ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND SEA LEVEL A64-80168

THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL

MITYUSHOVA, N. M.
RESTORATION RATE OF CHROMOSOME MATERIAL IN YEAST CELLS AFTER GAMMA RADIATION N64-12795

EXPOSURE OF MICE TO LOW TEMPERATURES FOR SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE N64-18874 AAL-TDR-63-9

SEARCH FOR HEMATOLOGICAL PARAMETER INDICATING EFFECT OF COLD ACCLIMATIZATION ON FORMED ELEMENTS IN MOUSE PERIPHERAL BLOOD AAL-TDR-63-3 N64-31934

MIYOSHI, N. FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL CONTROL A64-80989

NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY PHASE A64-80257

EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY NASA-CR-53806 N64-23393

MODRICK, J. A.
EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON
TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOLVING AD-439648 N64-30499

HOHLER, S. R. HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER EVACUATION FROM SURVIVAL ACCIDENTS SAE PAPER 8518 A64-20760

IONIZING RADIATION OPERATIONAL HAZARDS OF SUPERSONIC TRANSPORT A64-25786

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD IMPACTS A64-80858

MOISEYEV, A. A. PROBLEMS OF RADIATION DOSIMETRY IN X-RAY DIAGNOSIS AND TREATMENT N64-22732

MOISEYTSEY, P. 1.
PROTECTION AND INDUSTRIAL SAFETY FOR WORKERS WITH
X-RAY MACHINES - RADIATION HAZARD N64-12750

MOLCHANOVA, I. V. SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033

MOLINARI: G. A.
ANALYSIS OF CHARACTERISTICS OF NYSTAGMUS INDUCED BY COMPLEMENTARY CORIOLIS ACCELERATION A64-81120

MOLL, E. CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND HEIGHT A64-80797

RADIDACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO BODY ORGANS

MOLNAR, S. DISTURBANCE OF OSMOTIC TISSUE REGULATION IN WATER TOXICITY NASA-TT-F-9110

N64-33393

MOLOTKOVSKIY, YU. G.
ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL

FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL CONTROL

MONYER, W. R.
BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF HYDROGEN AND FORMIC ACID N64-13968

MONAKHOV. A. V.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
A64-2558

MONK-JONES, M. E.
ADRENGCORTICAL ACTIVITY AT HIGH ALTITUDE UNDER A64-12990 STRESS CONDITIONS

MONNIER, R.
HELICOPTER USE IN AIR EVACUATION OF PATIENTS AS RELATED TO PROTECTION UNDER FIRST GENEVA CONVENTION

OXYGEN CONSUMPTION DURING LIGHT MUSCULAR WORK AND ZONE OF LEAST ENERGY EXPENDITURE WITH BIMANUAL A64-80341 MOVEMENTS

LOAD EFFECT ON OXYGEN CONSUMPTION AND HEART RATE DURING LIGHT MUSCULAR WORK A64-803 A64-80342

PHYSICAL FITNESS TESTS EVALUATED BY MORPHOLOGICAL INDEX VERSUS CARDIOVASCULAR STRESS TESTS

A64-80412

MONTANDON, P.

FUNCTIONAL CORRELATION BETWEEN DIENCEPHALIC AND VESTIBULAR NYSTAGMOGENIC AREA

ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN CASES IN FRANCE

MONTGOMERY, P. D.
BIOLOGICAL EFFECT OF X-RAY IRRADIATION AND
INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B A64-22813

GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN A64-80362 E. COLI B

GROWTH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY A64-80684

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN N64-28649 BACTERIA - ESCHERICHIA COLI

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453

MONTOYE. H.

INTERCORRELATION OF EXERCISE, BODY COMPOSITION, FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, ADRENAL WEIGHT IN RAT

INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION FOR MANNED SPACE FLIGHT A64-10628

INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT N64-16489 CAL-IH-1715-E-5

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS

CAL-131

MONZEIN. P. CONTINUOUS MEASUREMENT OF ALVEOLAR AIR COMPOSITION

MODRE. B. G.

EXTRACELLULAR POLYSACCHARIDES PRODUCED BY CHLORELLA AND OTHER ALGAE USED IN CLOSED ECOLOGICAL SYSTEMS AS RELATED TO RECYCLING A64-80784 TIME OF GROWTH

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM N64-29722

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED N64-33019 BY FRESH WATER ALGAE

MOORE, E. W.

HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION IN RAT AS RELATED TO XANTHINE OXIDASE

A64-80593

N64-32606

ZOOLOGY CONFERENCE - INVERTEBRATES, MARINE LIFE, PARASITES, VERTEBRATES, PALEONTOLOGY, ZOOGEOGRAPHY AND ECOLOGY NASA-CB-59306 N64-33512

ABSTRACTS ON INVERTEBRATE AND VERTEBRATE BEHAVIOR, PHYSIOLOGY, ENDOCRINOLOGY, GENETICS, EMBRYOLOGY, EVOLUTION, AND CELL BIOLOGY NASA-CR-59307 N64-335

N64-33513

ZOOLOGY CONFERENCE - ENDOCRINE SYSTEMS, ADAPTATION OF MAMMALS, CHEMORECEPTION, NUCLEO-CYTOPLASMIC RELATIONS, FUNCTIONAL MORPHOLOGY, AND EVOLUTION NASA-CR-59305 N64-33514

ZOOLOGY CONFERENCE - NORTH AMERICAN FAUNA, INSECT ENDOCRINOLOGY, MAMMALIAN EVOLUTION, MIMICRY, BLOOD PROTOZOA, CHROMOSOME STRUCTURE, AND ECOLOGY NASA-CR-59304

CONGRESS OF ZOOLOGY SYMPOSIUM ON NATURE, MAN, AND PESTICIDES NASA-CR-59303 N64-33687

PROTECTION OF VANISHING SPECIES - INTERNATIONAL CONGRESS OF ZOOLOGY SYMPOSIA ON SCIENCE AND MAN NASA-CR-59027 N64-33924

MOOS, R. H.
PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL A64-81087 STRESS IN RATS

MOOS, W. J.
ELECTRIC FIELD EFFECT ON ACTIVITY AND RADIATION STRESS IN MICE A64-80334

FOHN WEATHER EFFECTS ON ACCIDENT RATES

A64-80631

N64-33286

N64-21945

MORAN, H. F.
ELECTRON MICROSCOPY AND ELECTRON OPTICAL
TECHNIQUES IN EXOBIOLOGY
NASA-CR-59251

MORAWSKI, J.
HUMAN FACTORS & CONTROL SYSTEM FTD-TT-63-331/162

MORDKOFF, A. M.
STRESS-RELATIONSHIP BETWEEN PHYSIOLOGICAL AND

PSYCHOLOGICAL RESPONSES A64-80361

MOREHOUSE, P. M.
THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES

N64-25892

MORET, P. R.
HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART A64-80408 FUNCTION

PSYCHOLOGICAL TESTING OF ANIMALS - FIXED EFFORT

RESPONSE REINFORCEMENT AND EXTINCTION RESPONSE N64-33507 AD-607325

MORGAN, J.

LUNG VOLUME, COMPLIANCE, AND ARTERIAL OXYGEN AND
CARBON DIOXIDE TENSIONS DURING CONTROLLED
VENTILATION OF DOGS WITH PURE OXYGEN

A64-8076

A64-80700

MORGAN, R. F.
ROTARY ENVIRONMENT RESULTING IN ADAPTATIONAL BEHAVIOR BY CHICKEN A64-80321

EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS AMRL-TDR-63-122 N64-15518

EFFECTIVENESS OF VARIOUS PRESENTATION MODES ON TRAINER DISPLAY FOR SERIAL LEARNING OR PROBLEM SOLVING N64-30499

AD-439648

MORGAN, T. E., JR.
POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN
TWO-MAN SPACE CABIN SIMULATOR SAM-TDR-63-60

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO DXYGEN AT HIGH PARTIAL PRESSURES ON MAN SAM-TDR-63-52

TIME-CONCENTRATION EFFECTS OF DXYGEN TOXICITY IN

MAN N64-12864 PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED

OXYGEN TENSION SAM-TDR-63-64 N64-16640

FUNCTION OF FINGERS AND AUTOMATIC CONTROL OF ARTIFICIAL FINGERS FOR ENGINEERING

N64-15557

MORINOTO- M.

OPTOKINETIC NYSTAGHUS-STUDY OF NEURONAL MECHANISM A64-80241

NYSTAGHUS IN HAN AND RABBIT - STUDY OF SECONDARY PHASE A64-80257

MORKEN, D. A.
EFFECT OF INHALED RADON ON SURVIVAL, BODY WEIGHT,
AND HEMOGRAM OF MOUSE AFTER SEVERAL EXPOSURES N64-18409

RADON TOLERANCE OF HUMAN GASTROINTESTINAL SYSTEM UR-648 N64-31319

MORNINGSTAR, M. E. SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE A64-80677

MOROWITZ, H. J.
MINIMUM FREE LIVING REPLICATING SYSTEM REQUIREMENTS 464-18813

PROPERTIES AND CHARACTERIZATION OF MICROORGANISMS BY NUTRITIONAL REQUIREMENTS NASA-CR-50397 N64-22768

MOROZKIN, N. I.
THERAPEUTIC VALUE OF DEDXYRIBONUCLEASE IN
TREATMENT OF PATIENTS WITH ADENOVIRUS CONJUNCTIVITIS N64-12885

MOROZOV, V. P.
METHOD FOR SYNCHRONIZED RECORDING OF THORAX MOVEMENTS AND SOUND PARAMETERS DURING VOCAL EXERCISE A64-81057

MOROZOV, V. S.
MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER,

AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824 N64-22937

TRANSITION PROBABILITIES IN MOLECULES WITH CONJUGATE SYSTEM OF PI-ELECTRONS

N64-28311

MORRELL, R. M.
FINDINGS IN NEUROPHYSIOLOGY, PSYCHOLOGY AND
INSTRUMENTATION THAT SUGGEST INNOVATIONS IN
MONITORING OF ASTRONAUT BRAIN AAS PAPER 62-11 A64-11453

MORRIS, A. VISUAL REQUIREMENTS FOR FLIGHT QUALIFICATION -PERSONNEL SELECTION AD-442707

N64-29650

VISUAL POTENTIALITIES OF MAN IN SPACE

A64-16118

CORNEAL CONTACT LENSES FOR FLYING PERSONNEL IN MILITARY AVIATION - CLINICAL EVALUATION

A64-80401

SATELLITE TO EARTH VISIBILITY OF CREWMAN - HUMAN PERFORMANCE N64-30720

MORRIS, M. L.
GAS CHROMATOGRAPHY FOR ANALYSIS OF PERMANENT AND VOLATILE ORGANIC GASES IN CLOSED CABIN ATMOSPHERES A64-80842

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

MORRISSETTE, J. O.
SEX DIFFERENCES IN SCORES ON TAYLOR MANIFEST ANXIETY SCALE A64-80936

MORROW, A. G.
DIRECT AND REFLEX EFFECTS OF HYPOXIA, HYPOTENSION, AND HYPOTHERMIA ON HEART OF DOG

A64-81102

MORROW, P. E.

ADAPTATION OF MAN AND HAMMALS TO ATMOSPHERIC **POLLUTANTS** A64-80429

MORSE. R. L.

MATHEMATICAL MODEL AND DIGITAL COMPUTER STUDY OF ABNORMAL PHYSIOLOGICAL PHENOMENA IN BALLISTOCARDIOGRAM N64-30493

MORSH, J. E.
JOB ANALYSIS IN UNITED STATES AIR FORCE

A64-80266

MORTENSON, F. J.
MEMORY SPAN AFFECTED BY BRIEF INTERPOLATED
ACTIVITY A64-80575

MORTIMER, R. G. BLOOD-ALCOHOL CONCENTRATION IN SIMULATED DAY AND NIGHT DRIVING AND ITS EFFECT ON VISION

464-80009

MORTIMER, R. K. MAPPING OF GENETIC SITES ON CHROMOSOMES OF YEAST BY X-RAY IRRADIATION AND INDUCED MUTATION

N64-22852

MORTON, A. S. CORRELATION OF MATHEMATICS AND PHYSICS GRADES WITH FLIGHT TRAINING GRADES IN BASIC AND ADVANCED STAGES

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED SPACE FLIGHT AMRL-TDR-64-10

MORTON, W. E.
MORTALITY FROM HEART DISEASE AT HIGH ALTITUDE A64-80660

AUDITORY INPUT DURING SLEEP AND WAKEFULNESS RELATED TO FUNCTION OF MIDDLE EAR MUSCLES IN CAT A64-80724

MORYAKOVA, V. F.
ROLE OF NUCLEIC ACIDS AND ALBUMIN IN BIOSYNTHESIS OF CHLOROPHYLL

MOSCATELLI, A.

ACCURACY OF SPACE PERCEPTION AS FUNCTION OF
IRREGULARITY AND REDUNDANCY OF SURFACE TEXTURE A64-80714

MOSELEY, D. V.
FIGURAL AFTEREFFECT STUDIED BY TACHISTOSCOPIC
EXPOSURES OF STIMULI
A64-A64-80586

OBJECTIVES, METHODS, RESULTS, AND CONCLUSIONS OF BALLISTIC AND ORBITAL MERCURY FLIGHTS /MR-2 AND MA-5 FLIGHTS/ WITH CHIMPANZEES NASA-SP-39 N64-12915

VENTILATORY RESPONSE OF DOG TO INTERMITTENT INSPIRED CARBON DIOXIDE 464-80993

MOSHKOVSKIY, YU. SH.

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF
NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED
THROUGH DEDXYRIBONUCLEIC ACID
N64-N64-19439

RADIATION SICKNESS - PHARMACOLOGICAL PROTECTION JPRS-24817 N64-21729

SENSITIVITY AND REACTION CAPABILITY OF CRANIOCEREBRAL CAVITY VASCULAR SYSTEM TO LONGITUDINAL GRAVITATIONAL LOADS DURING CHANGE OF BODY POSITION A64-25604

MOSKALENKO, YU. YE.
STUDY OF BLOOD CIRCULATION OF BRAIN UNDER MODIFIED GRAVITATIONAL FIELD

RECORDING ELECTROPLETHYSMOGRAMS OF PARTS AND ORGANS OF HUMAN BODY NASA-TT-F-203 N64-20194

REACTIONS OF VASCULAR SYSTEM OF CRANIAL CAVITY DURING LONGITUDINAL G-LOADS N64-2 N64-23770

MOSKALEV, YU. I.
DIAGNOSIS AND TREATMENT OF CONTAMINATION BY
RADIOACTIVE ISOTOPES JPRS-22610 N64-13320

HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/1&2&4

MOSS. C. H.
AUDITORY AUTOKINETIC EFFECT SHOWN INDEPENDENT OF TONE FREQUENCY AND INTENSITY

MOSS, L. K.
EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN SOLUTION NASA-CR-56130

WATER PHOTOLYSIS AND OXYGEN PRODUCTION FROM ILLUMINATION OF CHLOROPLAST IN PRESENCE OF SUITABLE ANODE ACCEPTOR NASA-CR-59220 N64-33124

ACCLIMATIZATION AND OTHER EFFECTS OF ANOXIA VIA EEG, HIPPOCAMPAL DISCHARGES AND EVOKED POTENTIALS OF THE VISUAL CORTEX OF RABBITS

PSYCHOLOGICAL AND PHYSIOLOGICAL ALTERATION OF LACK OF VISUAL, AUDITORY AND TACTILE STIMULATION IN SPACE FLIGHT A64-23766

HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX A64-80314

MOUCHAN, N. P.
DIRECT-CURRENT EFFECT ON ULTRABOUNDARY INHIBITION IN DOGS N64-12725

MOMBRAY, G. H.
SELECTIVE RESPONSE TIME INFLUENCED BY
INTER-STIMULUS INTERVAL AND PROBABILITY OF
OCCURRENCE OF STIMULUS A64-80967

MOMBRAY, H.

ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING TASKS UNDER STRESS AD-428112 N64-14168

MOYER, J. E. MICROORGANISM TRANSMISSION BETWEEN TWO HUMAN BODIES IN SIMULATED SPACE CABIN SAM-TDR-64-3 N64-21595

MOZHAYEVA, V. S.
EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES
OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT
SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT

N64-21644 MUCKLER, F. A. MANNED SPACECRAFT FOR SURVEILLANCE AND RECONNAISSANCE USING UNAIDED VISION AND MAN-PERISCOPIC VISION

MODERN OPTIMAL CONTROL THEORY RELATION TO MANUAL CONTROL SYSTEMS EMPHASIZING HUMAN ELEMENT

464-10632

A64-24837

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY NASA-CR-83 N64-25172

MUELLER, D. D. ASTRONAUTS ACCELERATION TOLERANCE PERFORMANCE IN RETURNING TO ERECT POSITION FROM CROUCH AMRL-TDR-64-56 N64-33530

MUELLER, G. C. E. CARDIOVASCULAR RESPONSE IN MAN DURING FORWARD ACCELERATION

MUGLIAROLI, H. A. RADIOACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO BODY ORGANS

MUKAI, T.

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY
CENTRAL NERVOUS SYSTEM IN RABBIT A64-80239

MUKHIN, YU. M.
PERCEPTION OF PROPORTIONS BY FIRST GRADE CHILDREN
DURING NATURE DRAWING N64-25149

MUKHINA, V. V.
BIOLOGY AND STRATIGRAPHY OF BOTTOM SEDIMENTS IN
EQUATORIAL PACIFIC JPRS-23403 N64-15730

TRANSFER IN PERCEPTUAL LEARNING FOLLOWING STIMULUS PREDIFFERENTIATION

MULLER, K. G.
TRANSPORT PROCESSES IN ORGANISM - EQUATIONS AND
ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE 464-80562

AMPLITUDE AND DURATION OF OCCIPITAL ELECTROENCEPHALOGRAPHIC RESPONSE TO DIFFERENT INTENSITIES OF FLASH STIMULATION

A64-80375

MULNIKOV, V. G.
THRESHOLD OF ACCELERATION SENSATION IN MAN JPRS-25929

MUNOZ, E. F. FORMATION OF GUANINE DURING THERMAL POLYMERIZATION A64-16287 OF AMINO ACIDS

MUNRO, A.
PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON
PERFORMANCE OF PHYSICAL WORK
A A64-80399

PHYSIOLOGICAL REACTIONS OF MEN TO COLD IN A64-80695

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES A64-80697

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80 A64-80764

SKIN AND RECTAL TEMPERATURE AND DXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

MURAYOV, I. V.

PRECEDING MUSCULAR ACTIVITY EFFECTS ON CAPACITY OF
UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS A64-80600

EFFECT OF PRIOR MUSCLE EFFORT ON SYMMETRIC MUSCULAR STRENGTH AND ENDURANCE JPRS-25593 N64-26459

MURIN, G. F.
MICE IRRADIATION TESTS FOR EFFECTIVENESS OF
PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660
AND 120 MEV ENERGY PROTONS
A64-26812

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION DOSE IN VOSTOK III AND IV SPACECRAFT N64-22937

MUROMTSEV, G. S.
INTERRELATIONSHIPS BETWEEN PHYSIOLOGICAL PHENOMENA OF GIBBERELLIN COMPOUNDS AND MOLECULAR STRUCTURE N64-31840 JPRS-26841

DEPRIVATIONS AS FUNCTION OF SUSTAINED SENSORY DEPRIVATION AND SOCIAL ISOLATION

N64-25127 AD-439431 MURPHY, H. ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA

DOSIMETRY

AFSWC-TDR-62-107

N64-21523

MURPHY, J. R.
THERMAL AND ELECTRICAL CONDUCTIVITIES OF BIOLOGICAL FLUIDS AND TISSUES N64-25892

MURPHY, R. T.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-22 N64-22042

MURPHY, S. D.
RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE

MUSACCHIA, X. J.

EFFECT OF X-RAY IRRADIATION DURING HIBERNATION ON
TISSUE CATECHOLAMINE CONTENTS

N64-1294

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE & MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE N64-22077

MUSEYIBOVA, T. A.
DISCRIMINATION OF SPATIAL RELATIONS IN PRESCHOOL CHILDREN AND ITS REFLECTION IN THEIR LANGUAGE

MUSSELMAN, D.
COLOR FILTERING AND DISPLAY TECHNIQUE EFFECTS ON
VISUAL PERCEPTION - SPECTRA ZONAL PHOTOGRAPHY AND TARGET DETECTION FR-63-11-287

MUSSELMAN, D. R. NECTION, DO NO.
HEAD MOUNTED ELECTROCULAR DISPLAY SYSTEM COMPARED
WITH CONVENTIONAL CONSOLE DISPLAY FOR TARGET

MUSSO, L.
MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME OPERATION WITHOUT REFUELING EUR-407.F N64-10465

MUTKE, H. G.
CYNECOLOGICAL PROBLEMS AND STRESS IN AVIATION AND SPACE MEDICINE - REVIEW A64-80521

MUZYKANTOV, R. V.
PROBLEMS OF RADIATION DOSIMETRY IN X-RAY N64-22732 DIAGNOSIS AND TREATMENT

MYASNIKOV, V. I.
STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING
ISOLATION FROM EXTERNAL STIMULI JPRS-24961

STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTD-TT-63-1015/16264 N64-21938

MOTOR REACTION TIME IN HUMANS UNDER ISOLATION N64-23758 CONDITIONS

FLUCTUATIONS IN ELECTROENCEPHALOGRAM OF MAN UNDER EXTENDED ISOLATION N64-2386 N64-23867

DESIGN OF ALGAL PHOTOSYNTHETIC GAS EXCHANGER TO BE USED FOR SUPPORT OF HUMANS IN SPACE A64-24976

MYERS, K. N.

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT
BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM
BALANCE, AND RELEVANCE TO WEIGHTLESSNESS A64-80820

MYERS, P. W.
INTERVERTEBRAL DISK DISEASE IN FLYING PERSONNEL A64-13994

MYERS, T. I.

HALLUCINATIONS AS FUNCTION OF SUSTAINED SENSORY
DEPRIVATION AND SOCIAL ISOLATION
N64-25 N64-25127 AD-439431

PERSONAL AUTHOR INDEX

MYLNIKOV, V. G.	
GRADIENT LOAD EFFECT ON HUMAN DU	E TO
ACCELERATION STRESS DURING FLIGHT	ſ

A64-81059

NACHEMSON, A. BACK INJURIES IN PILOTS AFTER CATAPULT EJECTION

NADAREYSHVILI, K. SH.
IRRITATING EFFECT OF X-RAY IRRADIATION IN RABBITS JPRS-19806

NADEL. A. B. VIBRATORY FORCE EFFECT UPON BIOLOGICAL SYSTEMS, PARTICULARLY HUMAN ORGANISM A64-12983

VIBRATION STRESS REVIEWED WITH RESPECT TO BIOLOGICAL EFFECTS, HUMAN TOLERANCE, AND PROTECTIVE MEASURES A64-80148

NAEDTS, J. P.
PULMONARY DIFFUSION CAPACITY IN RELATION TO SIZE,
AGE, AND SEX IN ADULT HUMAN
A64-8005 A64-80051

NAGARAJA, N. S.
CONTRAST THRESHOLDS MEASURED UNDER CONDITIONS OF
LUMINANCE NOISE IN BOTH BACKGROUND AND TARGET AREA

NAGASAKA, T.
EFFECTS OF HAND IMMERSION IN COLD WATER ON DIGITAL BLOOD FLOW AAL-TDR-63-35

TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS A64 A64-80628

PHYSICAL METABOLIC FATIGUE DUE TO SPARTASE — ASPARTIC ACID SALTS OF POTASSIUM AND MAGNESIUM CART-63-12 N64-14409

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845

AQUEOUS, LOW TEMPERATURE ENVIRONMENT OF ORGUEIL METEORITE PARENT BODY AND SUSTENANCE OF LIFE A64-80451

ORGANIC MICROSTRUCTURES IN CARBONACEOUS METEORITES SUGGESTING BIOGENIC ORIGIN A64-80452

SIMILARITY OF ORGANIC COMPOUNDS IN CARBONACEOUS METEORITES TO THOSE IN MARINE SEDIMENTS EVOLUTION OF LIFE N64-19584

HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT INTRACRANIAL PRESSURE IN DOG

ANOXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY AND ELECTROENCEPHALOGRAM AS AFFECTED BY DIPHENYLHYDANTOIN, TRIMETHADIONE, IODOACETATE, AND RESERPINE A64-80800

NAIMARK, A VENTILATORY EXCHANGE RATIO DURING EXERCISE AS RELATED TO CARDIOPULMONARY FUNCTION AND METABOLIC ACIDOSIS A64-80737

NAIRNE, F.
HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY AMRL-MEMO-P-54 N64-26852

NAISH, J. POSITION AND FORM EFFECTS ON COMBINATION OF INFORMATION IN SUPERIMPOSED VISUAL FIELDS SHOWN FROM PILOT PERFORMANCE OF CONCURRENT TASKS A64-19526

NAJMER. K.
AUDIOMETRIC EXAMINATION OF MILITARY PERSONNEL
A64-A64-80570

NAKAHARA, J.-I.
HUMAN BEHAVIOR IN FUNGUS EATER GAMES ESD-TDR-64-237 N64-22267

NAKAKURA, S.
TIMING AND WAVEFORM VARIATIONS OF VIBROCARDIOGRAMS
FROM MULTIPLE POSITIONS ON PRECORDIUM

A64-22816

A64-22816

VIBROCARDIOGRAM VARIATIONS OVER PRECORDIUM AND SOUND TRANSMISSION RATE A64-8 A64-80689

NAKAMURA. J. T.
ATMOSPHERIC MONITORING OF TOXIC LEVELS OF MISSILE PROPELLANTS

NAKAMURA, R. M.
CHANGES IN RED BLOOD CELLS, PLASMA VOLUME, BLOOD
PRESSURE, AND ORGANS DURING DECOMPRESSION SICKNESS
A64-80762

NAKHAPETOV, B. O. HEMODYNAMIC RESPONSES TO VESTIBULAR STIMULATION BY ROTATION FTD-TT-64-32/182 N64-22365

NAKSHIAN, J. S.
BEHAVIORAL EFFECTS OF RED AND GREEN SURROUNDINGS

NANCE, J. W.
MANUAL METHOD OF ANALYSIS OF BIOMEDICAL DATA FOR PROCESSING SYSTEM TM-1210/000/01

NAMEISHVILI, B. R.
NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION THERAPY JPRS-27289 N64-33975

FOOD FOR ASTRONAUTS DURING SPACE FLIGHTS, NOTING PROBLEMS AND PECULIAR ASPECTS OF EATING AND DRINKING IN SPACE ENVIRONMENT A64-1344 A64-13449

NAPALKOV, A. V.
ANALYSIS OF INFORMATION PROCESSING MECHANISM IN
BRAIN - CYBERNETICS N64-12: N64-12519

PATTERN ANALYSIS OF CONDITIONED RESPONSE AND THOUGHT PROCESSES OF HUMAN BRAIN FTD-TT-64-184/184 N64 N64-25951

NAPIER, A. W.
MEASURING PILOT PERFORMANCE AND CONTROL IN FLIGHT TASK SIMULATOR IAM-TM-226 N64-25828

NARVA, M. A.
MANNED SPACECRAFT FOR SURVEILLANCE AND RECONNAISSANCE USING UNAIDED VISION AND MAN-PERISCOPIC VISION A64-10632

NATELSON, S.
ULTRAVIOLET ABSORPTION SPECTRA OF STEROID AND CATECHOLE DERIVATIVES ARL-TDR-63-29 N64-14971

NATH. S. BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

PHYSIOLOGICAL RESPONSES OF NORMAL AND PATHOLOGICAL SUBJECTS TO MODIFIED WORK CAPACITY TEST A64-80387

NAUNTON, R. F.

EFFECTS OF FREQUENCIES, INTENSITIES AND DURATIONS
OF AUDITORY SIGNAL AND INTERFERENCE ON JUDGMENT OF
SIGNAL SOURCE LOCATION A64-19516

DISTANCE PERCEPTION OF TWO AUDITORY SIGNALS, ONE EMITTED FROM HEADPHONE AND OTHER FROM NEARBY LOUDSPEAKER

RESPIRATORY RATE AT HIGH ENVIRONMENTAL TEMPERATURE RELATED TO BODY POSITION IN RABBIT A64-80040

NAVAKATIKYAN, A. O. FACTORS AFFECTING VISUAL & AUDITORY SYSTEMS IN MAN JPRS-22735 N64-13582

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, & HIGH DXYGEN CONTENT IN INSPIRED AIR ON EXCITABILITY OF VISUAL MECHANISM IN MAN N64-13583

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN CONTENT, AND PHYSICAL EXERTION ON VISUAL PERCEPTION

NAVON. S. ADENOSINE TRIPHOSPHATE IN BRAIN OF RAT EXPOSED TO CHRONIC HYPERCAPNIA 464-80100

NAYLOR, G. F. K.
PERCEPTUAL SPEED IN RELATION TO QUANTA OF SIMULTANEOUSLY PRESENTED MATERIAL IN VISUAL OR TACTILE TASKS 464-80655

NAYLOR, J. C.
EFFECTS OF MODIFIED TASK FEEDBACK DURING TRAINING
ON PERFORMANCE OF SIMULATED ATTITUDE CONTROL TASK
AFTER THIRTY DAYS AMRL-TDR-63-125

LONG TERM SKILL TRANSFER AND FEEDBACK CONDITIONS DURING TRAINING AND REHEARSAL MG4-1681 N64-16813

NAZAROV, A. I. ENGINEERING PSYCHOLOGY JPRS-23448

FTD-TT-63-980/162

N64-16667

N64-23312

NAZAROV, N. M. OXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENOIDOSA, SCENEDESMUS OBLIQUUS AND ELODEA CANADENSIS

NAZZARO, J. R.
BISECTION OF DESIGNATED VISUAL SPACE AS FUNCTION OF LUMINANCE AREA AND SEPARATION OF FIDUCIAL LINES

NEAL. M.
EXIT REQUIREMENTS FOR EMERGENCY EVACUATION OF COMMERCIAL AIRLINERS A64-22002

NEBYLITSYN, V. D.
BRAIN BIOPOTENTIALS - ELECTROENCEPHALOGRAPHIC VARIATIONS IN RESPONSE TO RHYTHMIC PHOTIC A64-80469 STIMULATION

SUMMATION OF EVOKED POTENTIAL RHYTHM AS FUNCTION OF REPETITIVE FLICKER STIMULUS A64-811 A64-81131

INDIVIDUAL DIFFERENCES AS FACTORS IN RESPONSES OF HUMAN BRAIN POTENTIALS TO RHYTHMIC LIGHT STIMULATION N64-31458 N64-31458

IONIZING & X-RAY RADIATION EFFECTS ON MICE - GLANDS & PROTECTIVE SUBSTANCES JPRS-20421 N64-11355

NEFEDOV, V. P.
INFLUENCE OF ULTRASONIC WAVES ON NUCLEIC ACIDS N64-32957 RIBONUCLEIC ACID

METHODS OF TESTING & MEASUREMENT OF NONORGANIC HEARING IMPAIRMENT AD-425085 N64-13615

USE OF ANATOMICAL & PHYSIOLOGICAL EVIDENCE FOR CONSTRUCTING THEORIES OF INFORMATION PROCESSING OR

SENSORY DISCRIMINATION - AUDITORY SYSTEM

NEURAL MECHANISMS FOR RESPONSE OF MIDDLE EAR MUSCLES REPT.-1128 N64-25125

BRONCHIAL MUSCLE FUNCTION

A64-80956

TIMING OF SCANNING PROCESS USED TO ANALYZE HUMAN PERCEPTION AND THOUGHT MECHANISMS INVOLVED IN VISUAL SEARCH AND DISCRIMINATION

VISUAL DETECTION OF STIMULI WITH NOVELTY ATTRIBUTE ON BACKGROUND OF FAMILIAR SYMBOLS A64-81206

NEKHOY, A. P.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

NEKRASOVA: I. V.
TEMPERATURE EFFECT ON PROTECTIVE ACTION OF CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL A64-80964 CULTURES

ANTIRADIATION ACTIVITY OF SULFUR AMINO ACID COMPOUNDS ON ANIMAL TISSUE N6-

NELMS, J. D.
TESTS OF ELECTRICALLY HEATED FLIGHT CLOTHING
FPRC/MEMO-200 N64-

NELSON, D. J. CHROMOSOMAL ABERRATIONS IN CHIRONOMUS TENTANS LARVAE EXPOSED TO CHRONIC LOW LEVEL RADIATION ORNL-3531

NELSON, J. G.
BIOMEDICAL AND PSYCHOLOGICAL INSTRUMENTATION FOR
MONITORING PERFORMANCE DURING CENTRIFUGE
SIMULATION OF SPACE FLIGHT
A64-805

NELSON, P. D.

MEASUREMENT OF EMOTIONAL REACTIONS, INDIVIDUAL
PERFORMANCE AND GROUP EFFECTIVENESS OF SUBJECTS
ENCENDERED BY ISOLATION CONFINEMENT AND
ENVIRONMENTAL STRESS IN THE ANTARCTIC

A64-13

A64-13515

NELSON, R. A. EXCRETION OF LIPIDS & LIPIDIC SUBSTANCES IN HUMAN SWEAT REPT.-280 N64-23896

DETECTION OF EXTRATERRESTRIAL LIFE BY ULTRAVIOLET SPECTROPHOTOMETRY NASA-CR-50815

NELSON, T. M.
CENTRAL MECHANISM RELATED TO DIVERSE BRIGHTNESS PHENOMENA A64-81134

NEMENZO, J. H.
MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND
HYDRAZINE COMPOUNDS AMRL-TDR-64-26

NEPPIRAS, E. A.
DISINTEGRATION OF YEAST CELL BY HIGH INTENSITY ULTRASOUND

NESKOVIC, B.
HYPOTHERMIA AND ASCORBIC ACID CONTENT AND
DISTRIBUTION IN ADRENAL CORTEX OF THE RAT OTS 62-11760/1. A64-80060

AUDIOMETRIC INVESTIGATION OF HEARING LOSSES SUSTAINED THROUGHOUT TEN YEARS OF NOISE EXPOSURE A64-80599

NESTEROY, V. G.
PLANT AND ANIMAL AUTOMATIC CONTROL MECHANISMS -

INTERNAL PROCESS SELF-REGULATION - CYBERNETICS N64-12529

RADIATION DOSE ON VOSTOK V AND VOSTOK VI N64-23865 SPACECRAFT

NESTEROVA, A. P. USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM NASA-TT-F-9026 N64-27367

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION

NETSENGEVICH, H. R.
CONTROL OF RODENT POPULATION AND POTENTIAL
VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS

NEUMAN, M. W.
POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE -BIOGENESIS UR-656 N64-32074

NEUMAN, W. F. DISTURBANCES IN HUMAN CALCIUM METABOLISM DUE TO WEIGHTLESSNESS AND IMMOBILIZATION A64-24972

POSSIBLE ROLE OF CRYSTALS IN ORIGIN OF LIFE -BIOGENESIS

UR-656 N64-32074

NEUMEISTER, K.
MEDICAL PROCEDURES AND PRECAUTIONS IN THE EVENT
OF RADIATION ACCIDENTS
N64-28 JPRS-26021 N64-28439

NEUMEYER, B. GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN A64-80362 E. COLI B

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR THREE RETINAL ECCENTRICITIES, USING COLOR NAMING A64-28417

NEURATH, P. W.
ENDOGENOUS PERIODIC GROWTH BAND FORMATION IN
NEUROSPORA DEPENDENT ON MEDIUM TEMPERATURE AND

MAGNETIC FIELD EFFECT ON LIGHT EMISSION BY MICROORGANISM A64-80855

NEUMIRTH, R. S.
PROLONGED STARVATION EFFECT ON BLOOD PLASMA
CONCENTRATION AND EXCRETION OF ADRENAL HORMONES A64-80767

NEVEROV, V. P.
ROLE OF VESTIBULAR APPARATUS IN OPTOKINETIC NYSTAGMUS IN RABBIT A64-81310

NEVILLE, J. R.
CONTINUOUS FUNCTIONAL TESTING OF DXYGEN-BREATHING EQUIPMENT BY DIRECT OBSERVATION OF OXYGEN
CONCENTRATION CHANGES IN THE DEAD SPACE OF THE
MASK AND IN THE INLET TUBING
A64-1 A64-10255

CRITICAL OXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS RELATED TO THE DEGREE OF OXIDATION OR REDUCTION OF CYTOCHROME SYSTEM

CONTINUOUS FUNCTIONAL TESTING OF OXYGEN BREATHING EQUIPMENT SAM-TDR-63-56 N64-12176

FACTORS AFFECTING CELLULAR OXYGEN CONSUMPTION AT LOW OXYGEN TENSIONS SAM-TDR-63-68

POLAROGRAPHIC DETERMINATION OF OXYGEN CONTENT AND CAPACITY IN SINGLE BLOOD SAMPLE SAM-TDR-64-39 N64-29287

NEVILLE, T. MEDICAL AND BIOLOGICAL RESEARCH UCRL-11184

PHYSIOLOGICAL AND BIOCHEMICAL STUDY OF IONIZING RADIATION EFFECTS ON HUMAN METABOLISM AND BIOLOGICAL MUTATION UCRL-11387

N64-22851

A64-80170

NEVSKAIA, A. A. VISUAL SYSTEM - SYNCHRONOUS AND CONSECUTIVE INFORMATION PROCESSING A64-80778

NEVSKAYA, A. A.
VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL ENCODING - CYBERNETICS

NEVZGODINA, L. V.
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY & DEVELOPMENT IN ACTINOMYCETES AND PLANTS N64-11682

EFFECT OF SPACE FLIGHT CONDITIONS ON CHROMOSOMES OF PRIMARY ROOTLETS OF GERMS IN PEA AND WHEAT SEEDS IN VOSTOK III AND VOSTOK IV SPACECRAFT N64-21644

NEWGARD, P. M.
TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF ARTERIAL BLOOD PRESSURE

NEWHOUSE, M. T.

ARTERIAL CARBON DIOXIDE TENSION - EFFECT ON FLOW RESISTANCE AND MECHANICS OF LUNG IN MAN DURING VOLUNTARY HYPERVENTILATION A64-8 A64-80740

NAVAL MEDICAL SUPPORT OF SPACE PROGRAM N64-30715

NEWSOM, B. D. NUMAN TOLERANCE TO ROTATION IN SPACE STATION SIMULATOR, USING NECK BRACES TO REDUCE HEAD MOVEMENT AND HENCE NAUSEA

AIAA PAPER 64-219 A64-18878 NEWTON, J. L.
ALVEOLAR AND ARTERIAL GAS TENSIONS AS RELATED TO ALTITUDE AND AGE
A64-801

OXYGEN CONSUMPTION ASSESSMENT IN MEN VARYING IN AGE AND PHYSICAL FITNESS A64~80222

AGE IN RELATION TO OXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION A64-80518

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE A64-80664

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33

NEWTON, N. L. EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPEROXIA/

PHOTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM A64-12989

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETWEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH

PILOCARPINE MIDSIS AS CHORIORETINAL BURN PROTECTION FROM HIGH INTENSITY LIGHT TO STUDY VISUAL ACUITY

PILOCARPINE INDUCED MIOSIS AND PROTECTION OF RETINA AGAINST THERMAL RADIATION A64-80626 NEY, L. F.

EFFECT OF ORGANIC LIQUID /DIMETHYLSULFOXIDE/ AND
CAFFEINE ON PHOTOLYTIC ACTIVITY OF CHLOROPLASTS IN
SOLUTION
NACA-CR-56130
N64-20705

NICHOLAS, N. C.
DECOMPRESSION TESTS FOR B-58 ESCAPE CAPSULE SYSTEM
A64-80331

NICHOLS, A. V.
PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL
LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN
POPULATION N64-15213

LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW DENSITY LIPOPROTEINS N64-22864

NICHOLS, G., JR.
RESPIRATORY ACCLIMATIZATION TO CARBON DIDXIDE
A64-80109

CALCIUM AND PHOSPHORUS METABOLISM IN MAN DURING ACCLIMATIZATION TO CARBON DIOXIDE

A64-80110

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

A64-80232

NICHOLSON, A. N.
CENTRIFUGE TESTS EXAMINING ENHANCEMENT OF EVOKED
RESPONSES DURING POSITIVE ACCELERATION AND
CEREBRAL HYPOTENSION
A64-26014

CORTICAL EXCITABILITY CHANGES IN CAT DURING
POSITIVE ACCELERATION AND BLOOD VOLUME
REDUCTION A64-80988

NICKERSON, J. L.
EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION
ON TISSUES OF DOG EYE
AMRL-TOR-63-120
N64-146

YOUNGS MODULUS & BREAKING STRENGTH OF BODY TISSUES AMRL-TDR-64-23 N64-22317

EFFECT UF ANESTHESIA, HIGH DXYGEN AND FEEDING ON RESONANT FREQUENCIES OF VISCERAL ORGANS
AMRL-TDR-64-14 N64-22328

NICKERSON, R. S.
CHOICE REACTION TIME AS FUNCTION OF COGNITIVE
ASPECTS OF TASK
A64-80573

NIEBERG, A.
EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES
IN SCRAMBLED BOOKS
AMRL-TDR-63-122
N64-1551

NIELSEN, M.

NERVOUS FACTORS CONTROLLING RESPIRATION AND
CIRCULATION DURING EXERCISE EMPLOYING BLOCKING OF
BLOOD FLOW

A64-80957

NIEPORENT, H. J.

ADAPTION TO DESERT CONDITIONS - A PSYCHIATRIC SURVEY AMONG U.S. ARMY PERSONNEL IN THE LIBYAN SAHARA RELATING FINDINGS TO SENSORY DEPRIVATION

A64-R0018

NIKITENKO, V. F.
ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH
RESISTANCE GLASS MICROELECTRODES IN MEASURING
IONIC ACTIVITY IN MUSCLE AND NERVE CELLS
N64-31545

NIKITIN, M. D.

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS
CONDUCTED DURING FLIGHTS OF VOSTOK III AND
VOSTOK IV

A64-23667

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS NASA-TT-F-8823 N64-22936

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER, AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION

DOSE IN VOSTOK III AND IV SPACECRAFT NASA-TT-F-8824

N64-22937

NIKOLAYEV, A. G.
HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION
DURING FLIGHTS OF VOSTOK III AND VOSTOK IV
N64-16399

NIKOLAYEVA, M. G.
PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE
RADIATION SICKNESS
N64-12778

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS
N64-12781

NIKOLOV, N. NERVOUS SYSTEM CHANGES OF HUMAN ORGANISM AT 2000

METER ALTITUDE A64-81275
NIKOLOV, N. A.

STRESS REACTION EVOKED BY FORMALIN INJECTION -MANIFESTATION IN HIGHER NERVOUS ACTIVITY OF DOGS A64-80041

NIKOLOV, S. KH.

ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID
PROPERTIES OF HUMAN SERUM

A64-80360

NIKOLOVA-TROYEVA, L.
MICROMAVE TREATMENT OF DISEASES
JPRS-25038

NASA-CR-55624

N64-27670

N64-15540

NIKOLSKAIA, P. M.
ULTRASOUND EFFECTS ON NERVOUS SYSTEM, THYROID,
BLOOD, AND TISSUE RESPIRATION IN RAT AND RABBIT
A64-80560

NILSSON: N. J.
SIGNAL DISCRIMINATOR FOR CLASSIFICATION OF
MACHINE LEARNING PATTERNS
RADC-TOR-64-145
N64-25235

NIVEN, J. I.
INSTRUMENTATION TO MEASURE NYSTAGMUS PRODUCED BY
ANGULAR ACCELERATION
NASA-CR-55617
N64-1535

BIGINSTRUMENTATION CONTROL CENTER FOR VESTIBULAR RESEARCH PROGRAMS ON THE HUMAN DISORIENTATION DEVICE N64-15353

FREQUENCY RESPONSE OF HUMAN SEMICIRCULAR CANALS TO ANGULAR ACCELERATION USING NYSTAGMUS TRANSITION TECHNIQUE

CONTINUOUS ROTATION EXPOSURE EFFECTS ON NYSTAGMUS

PHASE SHIFT
NASA-CR-53618
N64-18421

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE
MOTION
FPRC-1207
N64-25847

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION NASA-CR-59180 N64-33159

NIXON, C. W.

EFFECTS ON WORD INTELLIGIBILITY WHEN EXPOSED TO
LOW FREQUENCY SINUSCIDAL VIBRATIONS WITHIN THE
RANGE OF 6 CPS TO 20 CPS FOR SEMI-SUPINE TALKERS
A64-10253

NOBEL, P. S.
COLOR AND PATTERN PERCEPTION TESTS USING ISHIHARA
CHARTS AS TARGETS FOR STABILIZED RETINAL IMAGE
A64-25825

NOBLE, M.
FACILITATIVE INTERACTION BETWEEN TWO SEPARATE
CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY,
CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO

TWO-HAND CRANKING TASK

A64-26851

NOLAN, A. C. FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT OXYGEN

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL OXYGEN CONCENTRATION AMRL-TDR-63-104

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY AMRL-TDR-63-105

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS AMRL-TDR-63-107

NOLAN, J. P., JR.
LIFE SCIENCE RESEARCH REQUIRED TO ACHIEVE INTEGRATED MAN-MACHINE SYSTEMS

MAN-MACHINE SYSTEM AND BIDINSTRUMENTATION APPLICABLE TO MANNED SPACE FLIGHT RESEARCH - A A64-80485

NOLTE, H.
AIR TRANSPORT OF SICK AND WOUNDED - MEDICAL CONSIDERATIONS A64-80304

NORETS, T. A.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS JPRS-23678 N64-16694

NORMAN, J.
TIME-INTENSITY RELATION IN VISUAL PERCEPTION AS
A64-81 FUNCTION OF OBSERVERS TASK A64-81040

HYPOXIC AND ISCHEMIC FACTORS OF BRAIN DAMAGE -SYMMETRIC LESIONS N64-14599

ANALYSIS OF NERVE ACTIVITY IN INTACT NERVE BY CROSS-CORRELATION AND USE IN AUTOMATIC CONTROL 464-81039

NORRIS, C. ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION A64-80141

VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD PR-14 N64-33993

NORMOOD, W. D.
MODIFICATIONS TO EXISTING INDUSTRIAL HEALTH
PROGRAMS INDICATED FOR RADIATION WORKERS A64-26180

NOSTEROVA, A. P. UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT

NOVIK, I. B. CYBERNETICS AND DEVELOPMENT OF CONTEMPORARY SCIENTIFIC KNOWLEDGE JPRS-22296 N64-11782

PHILOSOPHICAL ANALYSIS OF BASIC CYBERNETIC MODELS JPRS-21807

SELECTION OF SPACE CREWS FOR EXTENDED JOURNEYS - APPLICATION OF PSYCHOLOGICAL CRITERIA N64-17536

INDIVIDUAL AND GROUP FACTORS IN ASTRONAUT SELECTION FTD-TT-64-260/1 N64-31474

NOVIKOVA, L. A. LIGHT EXCLUSION AND ELECTRICAL ACTIVITY IN CORTEX AND RETICULAR FORMATION OF RABBIT BRAIN

A64-80651

NOVIKOVA, M. N.
CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE
RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
NA4-2605

NOVINSKIY, G. D.
PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL
SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS JPRS-19043 N64-11124

NOVOMEYSKIY, A. S. DERMO-OPTICAL SENSE IN MAN JPRS-23068

N64-14542

NOVOSAD, R. OF SPACE LIFE SUPPORT SYSTEM WITH PRIMARY

CONSIDERATION GIVEN TO DXYGEN-CARBON DIDXIDE AND THE WATER CYCLE AIAA PAPER 63-65 A64-14332

NOVOSELTSEVA, ZH. A.
OPTIMAL TRANSFER PROCESSES IN SYSTEM WITH
FORECASTING N64-24707

NOMELL, P. C.
EFFECT OF DOSE RATE ON CHROMOSOME ABNORMALITIES IN
LIVER AND MARROW OF MICE IRRADIATED WITH FAST NEUTRONS, GAMMA-, AND X-RAYS USNRDL-TR-740 N64-27649

NOWICKI, J.
SIMULTANEOUS SOUND TRANSMISSION THROUGH AIR AND BONE FOR REDUCING AMPLIFICATION REQUIREMENTS AND NOISE LEVELS IN SPACE COMMUNICATIONS

NUCCIO, P. P.
ELECTRICAL RESISTANCE HEATING SYSTEM FOR HEATING FOODS DURING AEROSPACE FLIGHTS MR-1187-60

NUTTALL, J. B.
INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM FUMES FROM FLUOROCARBON RESIN PYROLYSIS A64-22065

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUOROCARBON RESIN PYROLYSIS A64-80637

NUZHDIN, N. I.
IONIZING & X-RAY RADIATION EFFECTS ON MICE -GLANDS & PROTECTIVE SUBSTANCES JPRS-20421 N64-11355

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH RESOLUTION SENSOR IMAGERY AMRL-TDR-64-29 N64-26960

NYST, M.
ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL DEAD SPACE WITH CHANGES IN BODY POSITION A64-80016

NYUBERG, N. D.
CODING SYSTEM FOR COLOR INFORMATION TRANSMISSION
IN RETINA - CYBERNETICS N64-1257 N64-12521

OBERG, B. FLUID EXCHANGE ACROSS CAPILLARY MEMBRANES IN SKELETAL MUSCLE, SKIN, AND INTESTINE OF CAT AS AFFECTED BY CARDIOVASCULAR REFLEX

OBERMAIER, J. E.
BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING SYSTEMS N64-32606

OBERMAN, A.
INTERDEPENDENCE OF FACTORS LEADING TO CORONARY DISEASE

REPT.-9

N64-29995

OBERNAYER, R. W.
MODERN OPTIMAL CONTROL THEORY RELATION TO MANUAL
CONTROL SYSTEMS EMPHASIZING HUMAN ELEMENT

A64-2483

CONTROL SYSTEM LAGS AND MAN-MACHINE SYSTEM PERFORMANCE - BIBLIOGRAPHY NASA-CR-83 N6

N64-25172

OBRIEN, R. D.
LATENCY PERIOD, CONVULSIONS, AND SURVIVAL TIME OF
RAT GIVEN HYDRAZINE AND ALKYL DERIVATIVES AS
AFFECTED BY PYRIDOXINE AND ITS PYRIDOXAL
COMPONENT

A64-81029

OBRIST, P. A.
AUTONOMIC LEVELS AND LABILITY - PERFORMANCE TIME
ON PERCEPTUAL AND SENSORIMOTOR TASKS

A64-80585

CONDITIONED HEART RESPONSE IN HUMAN IN RELATION TO CONTROLLED AND UNCONTROLLED RESPIRATION

A64-81041

OBROSOV, A. N.
INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL
MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE
N64-17171

ODUM, H. T.

SELF-MAINTAINING PHOTOELECTRIC CELL OF BLUE-GREEN
ALGAL MAT AND BACTERIA AS LAYERED ECOSYSTEM IS
EXAMINED FOR ELECTRICAL AND ORGANIC POTENTIAL
ENERGY

A64-14152

OFFIK, W.
RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
NASA-CR-53344 N64-17790

DGANDV, V. S.
ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING
METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN
DOGS AND RATS
A64-25590

OGINO, K.
OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN
RESPONSE TO LINEAR ACCELERATION

A64-80256

OGNEY, B. V.
PROBLEMS OF MEDICAL SCIENCE RELATED TO PHYSICAL
SCIENCE AND TECHNOLOGY, ESPECIALLY CYBERNETICS
JPRS-19043
N64-11124

OHANLON, J., JR.
HUMAN BEHAVIOR - DISCRIMINATION OF PRIMARY AND
SECONDARY VISUAL VIGILANCE TASKS
AD-437334
N64-20318

EFFECT OF REFERENCE DISPLAY ON HUMAN DETECTION
PERFORMANCE IN VISUAL VIGILANCE TASK
TR-750-2
N64-20409

OHGA, A.

PREOPTIC TEMPERATURE RELATIONSHIPS TO FUNCTION OF
SYMPATHICOADRENOMEDULLARY SYSTEM AND ADRENAL
CORTEX IN GOAT

A64-81226

OKABE, M.
FLIGHT SIMULATOR SYSTEM AND EXPERIMENTS ON MANUAL
CONTROL
A64-80989

OKEY, R. W.
MISCELLANEOUS WASTE EFFECT ON MESOPHILIC ACTIVATED
SLUDGE CELLULOSE - METABOLIC WASTE
CAM-TDD-64-25 N64-27494

OKOLOV, F. S.

ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID
PROPERTIES OF HUMAN SERUM

A64-80360

OKUBO, K.
OTOLITH INFLUENCE ON NYSTAGMUS EVOKED BY CALORIC
STIMULATION A64-80242

OLDENDORF, W. H.
CRANIAL BLOOD FLOW MEASURING TECHNIQUE USING

ISOTOPE BOLUS PROPELLED TOWARD HEART FROM VENIPUNCTURE A64-80258

OLDFIELD, D. G.
MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL
CAGES AFTER SINGLE X-RAY DOSE
N64-13509

OLENICHEVA, L. S.
CHEMICAL COMPOSITION OF UREA-EXTRACTABLE
COMPONENTS OF PLAGUE VIRUS EV
JPRS-26858
N64-

N64-32165

OLESHKO, M. M.

SPONTANEOUS MOTOR ACTIVITY IN CATS AND ACTIVITY
ALTERATION AFTER BILATERAL DESTRUCTION OF CAUDAL
NUCLEI

N64-31543

OLEWINSKI, W. J.
BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MANMACHINE SYSTEM CONFIGURATION FOR USF IN PROPOSED
AEROSPACE ENVIRONMENTAL CHAMBER
AEDC-TDR-63-256
N64-12226

OLSEN, W. O.
INTEGRATION OF ENERGY BY EAR THRESHOLD TESTED,
USING TONE PIPS AS STIMULI
A64-17999

OLSHANNIKOVA, A. YE.
LABORATORY APPARATUS FOR VISUAL SIGNALLING
INVESTIGATION OF MOTOR REACTION EFFECTIVENESS
N64-30323

OLTMAN, P. K.

AROUSAL EFFECT ON FIELD DEPENDENCE ASSESSED BY
ROD AND FRAME TEST UNDER QUIET AND NOISE
CONDITIONS

A64-81142

ONEILL, L. H.
SAFETY, HAZARDS & ACCIDENTS
NASA-CR-56623

N64-24119

ONG, S. G.
COSMIC RADIATION AND HIGH ALTITUDE EFFECTS ON
SURVIVAL, LUNGS, AND SPLEEN OF TUBERCULAR MICE
OF BOTH SEXES
A64-B0614

IMMUNITY AND BODY WEIGHT IN MICE INJECTED WITH TUBERCLE BACILLI EXPOSED TO DIRECT AND LEAD SHIELDED COSMIC RADIATION A64-8061

COSMIC RADIATION EFFECT ON TUBERCLE BACILLI
INOCULATED MALE AND FEMALE MICE AT HIGH ALTITUDE
AND AT SEA LEVEL
A64-80616

ONISHCHENKO, V. F.
ISOLATION EFFECT ON HUMAN PERFORMANCE AND
STABILITY OF DEVELOPED HABIT OF TRANSMITTING
INFORMATION A64-25593

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS

N64-23759

OOSTERVELD, W. J.
CENTRALLY EVOKED NYSTAGMUS IN ANIMALS SUBJECTED TO
VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS
DRUG
A64-80953

OCSTING, H. OCULOMUSCULAR THEORY OF AUTOKINESIS

A64-80622

OPARIN, A. I.

POSSIBILITY OF LIFE ORIGINATING IN SPACE BASED ON STUDY OF ENVIRONMENTAL CONDITIONS WHICH LED TO LIFE ON EARTH A64-25261

ORIGIN OF LIFE IN SPACE COMPARED TO THAT ON EARTH A64-80917

EVIDENCE OF CHEMICAL NATURE OF ORIGIN OF LIFE ON EARTH AND IN SPACE A64-80942

OPFELL, J. B.
TECHNIQUES AND EFFECTIVENESS OF CHEMICAL
STERILIZATION IN SPACE RESEARCH

A64-24981

CHEMICAL STERILIZATION

N64-14372

SPACE ENVIRONMENT EFFECTS ON STORED HUMAN BLOOD IN EARTH ORBIT SSD-TDR-64-1 N64-19184

OPIE, L. H.

RESPIRATORY FLOW RESISTANCE OF COMPONENTS OF
RESPIRATORY SYSTEM IN MAN IN SEATED POSTION
A64-80699

OPTON, E., JR.

AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL VIGILANCE TASKS AT VARYING SPEEDS PHS-G-GM-05385 A64-80129

ORANSKIY, I. YE.
ACCELEROMETRIC PRECORDIAL BALLISTOCARDIOGRAM IN
HYPERTENSION
NASA-TT-F-198
N64-25054

ORGANIST, W. E.
SHORT TERM MEMORY - NONEQUIVALENCE OF QUERY AND
MESSAGE ITEMS
ESD-TDR-64-254
N64-19670

ORGANJANYAN, V. G.
EFFECT OF IONIZING RADIATION ON RETINA AND OTHER
PHOTOSENSITIVE SYSTEMS
FTD-TT-63-163/16284
N64-2234

ORINIUS, E.

DETERMINATION OF NITROGEN CONCENTRATION DURING
BREATHING WITH MULTIPLE BREATH METHOD AND RELATION
TO NORMAL PULMONARY VENTILATION

A64-80885

ORKIN, L. R.
ENVIRONMENTAL COLD AS RELATED TO METABOLISM,
RESPIRATION, CIRCULATION, BLOOD, CENTRAL NERVOUS
SYSTEM, KIDNEY, LIVER, AND ACCLIMATIZATION OF MAN
A64-8087

ORLOV, I. V.
THRESHOLD OF CALORIC NYSTAGMUS DURING CONSTANT
RADIAL ACCELERATION IN PIGEON A64-81024

ORLOV, V. YA.

RELATIVISTIC EFFECT, USE, AND RESPIRATORY
PHYSIOLOGY OF MUSCLE RELAXANTS
JPRS-22995
N64-14074

ORLOVA, L. V.

RADIATION SICKNESS STUDIES - RADIOPROTECTIVE
PROPERTIES OF ADRENOCORTICOTROPIN /ACTH/, USE OF
DRUGS IN SICKNESS INDUCED BY POLONIUM INJECTIONS,
AND TREATMENT OF SKIN LESIONS
JPRS-26542 N64-2975

ORLOVA, N. N.
EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF
MICE
N64-11679

ORLOVA, Z. I.
TRACE ELEMENTS IN RADIATION DERMATITES
JPRS-25502 N64-25198

ORMEROD, F. C.
ELECTRONYSTAGMOGRAPH RECORDING OF RESPONSE TO
VARIED LIGHT AND SOUND, MENTAL PROBLEMS, ACTIVITY,
AND CHEMICAL FACTORS RELATED TO TRAVEL SICKNESS
A64-80980

ORNE, M. T.

NONDEPRIVATION FACTORS IN PRODUCTION OF SENSORY
DEPRIVATION EFFECTS- PSYCHOLOGY OF PANIC BUTTON
A64-80137

ORNSTEIN, G. N.
OPERATOR DECISION PERFORMANCE COMPARED FOR
PROBABILISTIC AND NONPROBABILISTIC DISPLAYS OF
OBJECT LOCATION A64-24128

ORO, J.

NONENZYMATIC SYNTHESIS OF NUCLEIC ACID COMPONENTS
AND ABIOGENESIS OF NEURINES, PYRIMIDINES,
PENTOSRIBOSE AND DEDXYRIBOSE
N64-29699

OROURKE, N. W.
LINEAR PROGRAMMING FOR OPTIMIZATION OF A ONE MAN-DAY, LIFE SUPPORT SYSTEM WITH SUPPLY AND WASTE STORAGE A64-11761

OROVEANU, M. I.

PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN
SELECTION OF FLYING PERSONNEL ASSIGNED TO
SUPERSONIC AND HYPERSONIC TRANSPORT AIRCRAFT
A64-11728

ORR, D. 8.
BEHAVIOR IMPAIRMENT DUE TO STRESS - EXPERIMENT IN
LONG-TERM PERFORMANCE OF 21 HOURS

A64-80798

ORTEGREN, U.

EAR DRUM MOVEMENTS FOLLOWING STIMULATION OF MIDDLE
EAR MUSCLES A64-80296

EUSTACHIAN TUBE - VALVE AND LOCKING MECHANISM A64-80306

MIDDLE EAR PRESSURE DETERMINED BY MASTOID PUNCTURE TECHNIQUE A64-80307

ORZALESI, M. M.
RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN
A64-80312

STATIC VOLUME-PRESSURE CHARACTERISTICS OF
RESPIRATORY SYSTEM DURING MAXIMAL EFFORT IN
RELATION TO MUSCLE TONUS A64-81000

OSHIMA, M.
VIBRATION EFFECTS ON THE VISUAL ACUITY OF MAN
A64-14993

OSIPOV, YU. A.

TEMPERATURE REACTION OF SKIN DURING LOW INTENSITY
MICROWAVE IRRADIATION
JPRS-23287
N64-15335

OSIPOVA, I. V.
HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF
GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS
SUBJECTED TO RADIAL ACCELERATION
JPRS-23837
N64-18084

OSIPOVA, M. M.
ELECTROCARDIOGRAPHIC METHODS AND APPLICATION TO
DOG STUDY DURING SPACE FLIGHTS N64-11707

OSNITSKAYA, L. K.

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND
MEDIUM DURATION OF FLUORESCENCE OF
BACTERIOCHLOROPHYLL IN CELLS
N64-23434

OSTAPENKO, O. F.
ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS
ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS
A64-25607

OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS N64-23773

OSWALD, W. J.

OPTIMUM LIGHT ARRANGEMENT FOR PROMOTING ALGAE
GROWTH, WASTE TREATMENT UNIT DEVELOPMENT, AND
MICROTERELLA ADVANCED MODEL DESCRIPTION
SERL-64-5
N64-29906

OSYPKA, P.
THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING
ANGULAR ACCELERATIONS WITH REGARD TO THEIR
DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT
CONTROL

A64-22819

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS

A64-80692

OTAHARA, S.
OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN
RESPONSE TO LINEAR ACCELERATION

A64-80256

OTANI, T.

NYSTAGMUS IN MAN AND RABBIT - STUDY OF SECONDARY
PHASE

A64-80257

OTELLIN, V. A.

INFLUENCE OF GRAVITATIONAL OVERLOAD ON ARTERIAL
SYSTEM OF NERVES AT EXTREMITIES
JPRS-25275
N64-27501

OTIS, A. B.
HYPOXIA EFFECTS ON BLOOD PRESSURE AND THYROID
FUNCTIONS IN RENAL HYPERTENSIVE WHITE RATS
A64-23254

AIRWAY RESISTANCE MEASURED WITH VOLUME DISPLACEMENT BODY PLETHYSMOGRAPH

A64-80702

EFFECTS OF COMPRESSIBILITY OF ALVEOLAR GAS ON DYNAMICS OF BREATHING CYCLE - RESPIRATORY PHYSIOLOGY SAM-TDR-63-71 N64-26653

AIRWAY RESISTANCE IN NORMAL RESPIRATION MEASURED BY VOLUME DISPLACEMENT PLETHYSMOGRAPH SAM-TDR-64-17 N64-29988

OTTANDER, C.

RECOVERY TIME AFTER EXPOSURE TO GLARE STUDIED AS
FUNCTION OF DURATION, INTENSITY, AND CONTRAST

A64-80601

OTTO-BUCZKOMSKA, E.

EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON
BLOOD CHANGES IN WHITE RATS
FTD-TT-64-242/1 N64-30703

OTZUKI, S.

CHANGE IN METABOLIC PATTERN OF BRAIN DUE TO DXYGEN
TENSION REDUCTION IN BLOOD - HYPOXIA

OVCHINNIKOV, A. A.
LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF
TRAINING PROCESS N64-30219

OVERALL, J. E.
VARIATION IN PLASMA FREE FATTY ACIDS IN RESTED
FASTING SUBJECTS
A64-8117

OVERBECK, H. W.

PRESSOR RESPONSES TO CHANGES IN POSTURE, EXERCISE, VARIOUS DRUGS AND OTHER ORGANIC SUBSTANCES, AND HAND AND/OR FOREARM COLD EXPOSURE OF NORMAL AND HYPERTENSIVE SUBJECTS

A64-B1002

OMADA, K.
OTOLITH INFLUENCE ON NYSTAGMUS EVOKED BY CALORIC
STIMULATION A64-80242

OMEN, H. P.

MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR
CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS
ASD-TDR-63-242
N64-19892

OWENS, A. J.

ARTIFICIAL INTELLIGENCE GENERATED BY NATURAL EVOLUTION PROCESS

A64-24824

OWENS, O. V. H.
RELATIONS BETWEEN OXIDATION, RESPIRATION, LIGHT
INTENSITY, AND OXYGEN PRODUCTION IN GREEN PLANTS
N64-13370

OYANA, J.
INCREASED AND DECREASED GRAVITY EFFECTS ON RATS
SUBJECTED TO PROLONGED CENTRIFUGATION

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY

A64-80815

DECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED CENTRIFUGATION A64-8093

OYAMA, V. I.

LIFE DETECTION ON MARS, USING GAS CHROMATOGRAPHY

A64-13439

GAS CHROMATOGRAPHY FOR DETECTION OF LIFE ON MARS

NASA-TM-X-50806

N64-22773

Ρ

PACE, H. B.
RESTORATION OF ALBINO RAT HEMATOPOIETIC SYSTEM
AFTER GAMMA RADIATION EXPOSURE N64-25309

EFFECT OF CONTINUOUS OR FRACTIONATED LOW INTENSITY
GAMMA RADIATION ON RESISTANCE TO THERMAL STRESS IN
ALBINO RAT
N64-25312

PACE, N.

PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED
MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT
SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA
BIOSATELLITE PROGRAM

A64-80261

CARDIOVASCULAR PHYSIOLOGY IN PIG-TAILED MACAQUE, MACACA NEMESTRINA, DURING SPACE FLIGHT

A64-80544

BODY FAT CONTENT AND COMPOSITION, BODY WEIGHT, METABOLISM OF COLD-EXPOSED, SEMISTARVED, AND HORMONE TREATED HAMSTER A64-80991

PHYSIOLOGICAL DATA AND INSTRUMENT DEVELOPMENT FOR AUTOMATIC MEASUREMENT OF HEMODYNAMIC AND METABOLIC PARAMETERS ON PRIMATES DURING WEIGHTLESSNESS NASA-CR-56348 N64-25768

PACKER, E.
COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF
TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN
ENVIRONMENT
A64-14461

BIOLOGICAL CONTAMINATION OF MARS BASED ON TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED MARTIAN ENVIRONMENTS A64-24978

PAGE, B. B.
MECHANISMS OF INTRARENAL HEMODYNAMIC CHANGES
FOLLOWING ACUTE ARTERIAL OCCLUSION
CARI-63-22
N64-16574

PAGE, G. B.

PROTECTIVE AND PREVENTIVE ASPECTS IN HEARING LOSS

DUE TO HIGH INTENSITY NOISE EXPOSURE IN MILITARY

A64-B0568

PAINTER, R. B.
EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL
STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT
PN-6117
N64-13204

INFLUENCE OF RADIOACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS N64-19150

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH NASA-RP-196 N64-22071

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEOXYRIBOSIDE IN MAMMALIAN CELLS
NASA RP-245
N64-27352

GENETIC RECOMBINATION BETWEEN RESISTANCE TRANSFER FACTOR AND CHROMOSOME OF ESCHERICHIA COLI NASA-RP-296 N64-28231

PAKHOMOVA, M. V.
CHEMICAL COMPOSITION OF VARIOUS ALGAE SPECIES
N64-29034

PALECEK, E.

SPECIFICITY OF COMPLEMENTARY RIBONUCLEIC ACID
FORMED BY BACILLUS SUBTILIS INFECTED WITH
BACTERIOPHAGE SPB

N64-25880

PALEYEV, N. R.
MEDICAL CASE HISTORIES ON EXISTENCE IN ANTARCTIC
REGION
FTD-TT-64-291/1
N64-32236

PALLADIN, A. V.
PROTEIN EXCHANGE IN NERVOUS SYSTEM
JPRS-26846 N64-32747

PALMER, J. D.
DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL
DIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM
A64-81118

LMER, J. O.
PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL
EFFECTS OF STRESS IN FASTING MAN

A64-81005

PALOHEIMO, J. A.
SEASONAL VARIATION OF BLOOD AND PLASMA VOLUMES IN
HEALTHY MEN IN FINLAND A64-80252

AUDITORY ADAPTATION FOR PURE TONES COMPARED AT THRESHOLD AND SUPRATHRESHOLD LEVELS FOR CLINICAL TESTING A64-80955

PANCHENKOVA, E. F.
ENDURANCE VARIATIONS IN MICE SUBJECTED TO
ACCELERATION, X-RAY AND PROTON IRRADIATION
A64-27273

PANFEROVA, N. E.
MUSCULAR INACTIVITY AND EFFECT ON DIURNAL RHYTHM
OF BODY FUNCTION
A64-81050

PANKRATYEV, B. YE.
EFFECT OF IONIZING RADIATION ON WOUNDS - SURGERY
TEXTBOOK
JPRS-19278 N64-1106

PANNIER, R.
ASTHMA TEST BY PNEUMOTACHOGRAPHY AFTER INHALATION
OF ACETYLCHOLINE AND ALEUDRINE A64-80286

PANOV, D. YU.

CYBERNETIC FEATURES OF HUMAN OPERATORS IN
AUTOMATIC CONTROL SYSTEMS
JPRS-17544

N64-10695

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787

PANOVA, Y. M.

CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY
ALGORITHM OPERATION N64-10007

PANSKY, B.
HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER
EAR
ARL-TDR-64-1
N64-18650

PAPE, R. W.
PHYSIOLOGICAL AND PATHOLOGICAL EFFECTS OF VIBRATION ON TOTALLY IMMERSED CATS

A64-80119

PAPIERNIK, E.
HYPERVENTILATION IN INTACT AND CHEMODENERAVATED
DOGS IN RESPONSE TO HYPERCAPNIA

A64-80053

PAPIRNO, R.
BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT
DESIGN AND ENGINEERING - BIOINSTRUMENTATION
NASA-CR-76
N64-26609

BIOLOGICAL MECHANISMS APPLIED TO INSTRUMENT DESIGN - MECHANORECEPTORS, PHOTORECEPTORS, CHEMORECEPTION, & THERMORECEPTION NSA-CR-58560 N64-29546

PAPUSH, N. D.
RESTORATION OF PLASMA PROTEIN FRACTIONS AFTER
BLOOD LOSS & INFUSION WITH POLYGLUCIN
N64-18521

PARADE, G. W.
HIGH ALTITUDE EFFECTS ON MAN, COMPARING
ENVIRONMENT ADAPTATION OF TRAINED AND UNTRAINED
SUBJECTS
A64-11440

PARADIJEFF, A.

EFFECTS OF EXTERNALLY APPLIED PHYSICAL VIBRATION
ON TISSUES OF DOG EYE
AMRL-TDR-63-120
N64-14696

PARBASHOVA, L. I.
DEGREE OF ACTOMYOSIN VISCOSITY IN MUSCLE
CONTRACTION IN HYPOXIA IN RAT
A64-81268

PARE, W. P.
LONG-TERM STRESS AND PREMATURE AGING IN RAT WITH
EFFECT ON BASAL METABOLIC RATE, ADRENAL GLAND,
PROSTATE GLAND, AND WHITE BLOOD CELL
A64-80566

PARFENDV. G. P.
ORGANIC CHANGES PRODUCED ON MICROSPORES
TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT
A64-18575

FERTILIZATION, MULTIPLICATION AND DEVELOPMENT OF DROSOPHILAS /FRUIT FLIES/ UNDER CONDITIONS OF WEIGHTLESSNESS A64-18576

DOMINANT LETHAL MUTATIONS OF MALE DROSOPHILAS
/FRUIT FLIES/ RESULTING FROM ORBITAL FLIGHT
ONBOARD VOSTOK SPACESHIPS A64-18577

MUTATION FREQUENCY OF OCCURRENCE FOR DROSOPHILA MELANOGASTER CARRIED BY VOSTOK SPACECRAFT

A64-23670

OCCURRENCE OF CROSSING OVER IN CHROMOSOMES OF MALE DROSOPHILA FLIES CAUSED BY VIBRATION, ACCELERATION AND GAMMA RADIATION A64-26813

SPACE FLIGHT EFFECT ON INCIDENCE OF LETHAL GENETIC MUTATION OF DROSOPHILA MELANOGASTER INSECTS
N64-11680

INCIDENCE OF DOMINANT LETHAL MUTATIONS IN MALE DROSOPHILA DURING SATELLITE FLIGHT

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

EFFECT OF SPACE FLIGHT FACTORS ON INCIDENCE OF SEX LINKED RECESSIVE LETHAL MUTATIONS IN FLIES NASA-TT-F-8826 N64-23043

LETHALITY OF EMBRYONIC CELLS IN DROSOPHILA AFTER
VOSTOK III AND VOSTOK IV SPACECRAFT FLIGHT DUE
TO IONIZING RADIATION
NASA-TT-F-BROR
NA64-2305

EFFECT OF SPACE FLIGHT ON MICROSPORES ABDARD VOSTOK V AND VI SPACECRAFT N64-29091

IMPREGNATION, REPRODUCTION, AND DEVELOPMENT OF DROSOPHILA UNDER CONDITIONS OF WEIGHTLESSNESS N64-29092

GERM CELL MORTALITY IN DROSOPHILA AFTER VOSTOK
III AND IV SPACE FLIGHTS N64-29093

PARFIONOV, G. P.
WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON
REPRODUCTION IN DROSOPHILA MELANOGASTER AND
HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA
A64-18673

PARIBOK, V. P.
ANTIRADIATION EFFECT OF INERT GASES AND LOWMOLECULAR NARCOTICS ON BEAN SPROUTS
JPRS-25703
N64-27055

PARIN, V. V.
U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE

A64-26380

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND PROBLEMS OF PROTECTION A64-80911

SECOND SYMPOSIUM ON OPERATION AND USE OF BIDTELEMETRY IN SYERDLOVSK, USSR

A64-81331

MEANS & METHODS OF USING ELECTRONICS IN SCIENTIFIC & PRACTICAL MEDICINE
JPRS-17497 N64-10682

CONTRIBUTIONS OF CYBERNETICS TO MEDICAL SCIENCE JPRS-22189 N64-11417

TELEMETRY SYSTEM FOR TRANSMISSION OF BIOLOGICAL DATA FROM SPACE FLIGHTS N64-11669

CYBERNETICS IN MEDICINE & PHYSIOLOGY JPRS-22377

N64-11918

APPLICATION OF CYBERNETICS TO BIOLOGY AND MEDICINE N64-12509

SAFETY CONSIDERATIONS FOR MANNED SPACE FLIGHT FTD-TT-62-1605/1 N64-12849

EFFECTS OF SPACE ENVIRONMENT ON PLANTS & HUMANS FTD-TT-62-1609/1 N64-16053

HUMAN TOLERANCE TO EXTENDED PERIODS OF WEIGHTLESSNESS

N64-18973

PHYSIOLOGY AND PATHOLOGY OF CIRCULATORY SYSTEM NASA-TT-F-173 N64-23204

ANNOTATED BIBLIOGRAPHY ON AEROSPACE MEDICINE
N64-26

AEROSPACE MEDICINE AND ANIMAL SYSTEMS IN BIONICS
JPRS-25765 N64-27059

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

PARK, J. F., JR.
PERFORMANCE OF ARITHMETIC TASK UNDER INTENSE NOISE
A64-80077

PARKER, J. F., JR.
ENGINEERING ANALOGY FOR PREDICTING HUMAN TRACKING
PERFORMANCE
AD-602861
N64-29762

PARKHOMENKO, G. M.
PROTECTION ACAINST RADIATION HAZARDS IN WORKING
WITH POLONIUM
JPRS-23499
N64-15992

PARKS, D. L.
WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
D3-3512-4
N64-15855

PARNIN, V. V.
ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND
MAXIMUM G-FORCES
N64-23456

PAROLLA, D. I.

CONTINUOUS REGISTRATION OF LOCAL CEREBRAL BLOOD
FLOW USING THERMISTOR
FTD-TT-63-1175/16264

N64-27840

PARSONS, O. A.
SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE
A64-80345

PASCHKES, V.
RADIATION SICKNESS IN MAMMALS AND RELATIVE
BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS
N64-22866

PASINETTI, A.
IONIZING RADIATION EFFECTS ON ASTRONAUT ORGANISMS,
NOTING BIOLOGICAL PROTECTION AND CHARACTER OF
RADIOBIOLOGICAL INJURIES
A64-28455

PASINETTI, L. E.
IONIZING RADIATION EFFECTS ON ASTRONAUT ORGANISMS,
NOTING BIOLOGICAL PROTECTION AND CHARACTER OF

RADIOBIOLOGICAL INJURIES

PASK, G.
SELF-ORGANIZING SYSTEMS INVOLVED IN HUMAN LEARNING
AND PERFORMANCE - INTERACTION BETWEEN MAN AND
ADAPTIVE MACHINE N64-18841

PASTORE, N.
DEPTH EFFECT IN STEREOSCOPICALLY COMBINED LINES
A64-19008

PATEL, R.
URINARY CAST FORMATION OF TH-MUCOPROTEIN AND
CREATININE EXCRETION DURING EXERCISE

A64-81318

PATEL, Y. J.
BLOOD PRESSURE, PH, AND NICTITATING MEMBRANE
RESPONSES TO ADRENALINE AND NORADRENALINE OF CATS
DURING HYPOXIA, HYPERVENTILATION, AND HYPEROXIA
A64-80926

PATKAT, P.

CATECHOLAMINE EXCRETION AND PERFORMANCE DURING
STRESS
A64-80743

PATOUILLET, C.
FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR
NUCLEAR SUBMARINES
NRL-5954
N64-10551

PATRICK, L. M.
TOLERANCE AND INJURY OF HUMAN BODY TO IMPACT
ACCELERATION
A64-B0320

PATRICK, R. L.
PATHOLOGY AND TOXICOLOGY OF REPEATED DOSES OF
HYDRAZINE AND DIMETHYLHYDRAZINE IN MONKEYS AND
RATS
AMRL-TDR-64-48
N64-29938

PATRUSHEY, V. I.
PHYSIOLOGY OF ATTENTION - DYNAMICS OF LATENT
PERIODS OF MOTOR REACTION TO REPEATED STIMULI
JPRS-22892
N64-14147

PATSCHKE, U.
SLEEP-HAKEFULNESS RHYTHM RELATED TO NOREPINEPHRINE
AND SEROTONIN CONTENT IN CENTRAL NERVOUS SYSTEM OF
HAMSTER
A64-81186

PATTAY, J.

HYPOXIC EFFECTS ON CORONARY CIRCULATION AND HEART
FUNCTION

A64-8040

PATTEE, M. H.

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS —
CATALYSTS AND CATALYTIC ACTIVITY IN INTERMEDIATE
SYSTEMS FORMED DURING SYNTHESIS OF LOW MOLECULAR
WEIGHT ORGANIC COMPOUNDS

MOLECULAR EVOLUTION IN PROTOBIOLOGICAL SYSTEMS PHOTOCATALYSTS, RADIOCATALYSTS, & LOW MOLECULAR
MEIGHT ORGANIC SYNTHESIS
MASA-CP-56531
M64-2270

NASA-CR-56531 N64-22792
PATTERSON, R.

IMPEDANCE MEASUREMENT OF CARDIAC OUTPUT - THORACIC CAGE IMPEDANCE MEASUREMENTS SAM-TOR-64-15 N64-21597

PATTON, R. M.

JUDGMENT OF VISUAL AND AUDITORY SIGNAL DURATION
A64-80849

BEHAVIORAL TESTING IN SIMULATED SPACE CABIN DURING SEVEN-DAY CONFINEMENT - DATA PROCESSING NASA-TN-D-1973 N64-11548

BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK NASA-TN-D-1974 N64-11549

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-14519

PAULI, H. G.
RESPIRATION AND ACID-BASE EQUILIBRIUM AFTER
ADAPTATION TO ALTITUDE OF BLOOD AND CEREBROSPINAL
FLUID
A64-80160

PAVLIDIS, T.

NEURAL NET FOR MODIFICATION OF YOUNG SAMPLED DATA

MODEL FOR EYE TRACKING MOVEMENTS

A64-23810

PAVLOV, G. I. SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS UNDER INCREASED GRAVITY OF ACCELERATION

N64-11523

PAVLOV. T. THEORIES ABOUT CREATION OF LIFE FORMS JPRS-19231

N64-10650

PAYLOVA, YE. B.
MORPHOLOGICAL CHANGES IN ANTERIOR LOBE OF PITUITARY GLAND, THYMUS, & ADRENAL GLAND UNDER IRRADIATION AND COOLING JPRS-20037

N64-11320

PAYNE, J. P.
EFFECT OF NEUROMUSCULAR BLOCKING AGENT ON
DIAPHRAGM TISSUE OF RAT

AD-439674

N64-30538

PAYNE, M. C., JR.
PERFORMANCE OF ARITHMETIC TASK UNDER INTENSE NOISE A64-80077

PAYNE, P. R.
MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION TECH. REPT.-115-2

N64-14779

PAYNE, R. A.
SAMPLE-DATA MODEL FOR HUMAN CONTROLLER IN TIME
INVARIANT CONTROL SYSTEM
A64-24 A64-24833

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

ENZYME HISTOCHEMISTRY OF NERVOUS SYSTEM

N64-14608

PEARSON, A. M.
SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR
DISPLACEMENT AND HELIUM DILUTION PROCEDURES 464-80994

PEARSON. R. G.

VOLUME JUDGMENT FROM PHOTOGRAPHS OF COMPLEX SHAPES AND UTILIZATION IN AIRCRAFT ACCIDENT INVESTIGATION A64-80588

HUMAN FACTORS IN LIGHT PLANE ACCIDENTS CARI-63-35

N64-29850

PEARSON, W. H.

CONTROL OF DISCRETE STOCHASTIC PROCESSES AS FUNCTION OF COST FOR MAKING CORRECTIVE ACTIONS AMRL-TDR-63-111 N64-1 N64-17508

VISUAL REACTION TIME AS FUNCTION OF INTENSITY-TIME RELATION OF STIMULUS A64-80322

RADIOISOTOPES IN CLINICAL MEDICINE - LOCALIZATION OF PLACENTA IN GASTROINTESTINAL TRACT

N64-24007

PEGRAM, V. G.

EVIDENCE FOR ACQUIRED EQUIVALENCE OF CUES /TACTUAL AND VISUAL CUES/ IN RECOGNITION OF SHAPES A64-80746

CONDITIONS OF COMPLETE INHIBITION OF ANTIBODY PRODUCTION IN MONKEYS AFTER GAMMA IRRADIATION IN LARGE DOSES JPRS-22121

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670 N64-11670

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

SENSITIZATION OF TUMOR CELLS TO ACTION OF IONIZING RADIATION BY RADICAL-REACTION INHIBITORS

N64-12896

PENATI. F. TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE

AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR

SYSTEM OF MAN NASA-TT-F-8567 N64-31557

PENDERGRASS, G. E.

COMBUSTIBILITY OF LIP, HAIR, & FACE PREPARATIONS UNDER CONDITIONS OF INCREASED TEMPERATURE, HIGH DXYGEN CONTENT, AND IN PRESENCE OF STATIC SPARK CARI-63-27

PENNELL, M. L.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-2: N64-22042

PENNYPACKER, H. S. FREQUENCY, AMPLITUDE, LATENCY AND MAGNITUDE MEASUREMENTS OF CONDITIONED EYELID REFLEX

PERDRIEL, G.

INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF GLAUCOMA INCIDENCE IN AVIATORS A64-20 A64-20700

VISUAL PROBLEMS OF SPACE FLIGHT AND EXPERIENCE OF RUSSIAN AND AMERICAN ASTRONAUTS

A64-80278

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL

A64-80506

PSYCHOSOMATIC BASES FOR EYE DISEASES IN THE A64-80755 AVIATOR

ELECTRORETINOGRAPHY - USEFULNESS IN SELECTION OF A64-80802 FLYING PERSONNEL

ANDXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS EFFECT ON LIGHT AND DARK ADAPTED RETINAS

A64-80803

PERELMAN, E. L.
EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED
SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE ENVIRONMENT JPRS-20011

N64-11319

PERESLEGIN. I. A.
RADIATION PROTECTION OF PERSONS WORKING NEAR GAMMA RADIATION THERAPEUTIC UNITS

N64-22731

PERI, G.

IMPROVEMENT OF PERIPHERAL VISUAL ACUITY IN BOTH EYES FOLLOWING AUDITORY STIMULATION

A64-80189

PERKINS, J. F. JR.
PULMONARY CIRCULATION AND CARDIAC OUTPUT OF RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE A64-80338 HYPOXIA

BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE

A64-80455

VENTILATORY RESPONSE OF DOG TO INTERMITTENT INSPIRED CARBON DIOXIDE A64-80993

PERRET, E.

ANNOYANCE PRODUCED BY SIMULATED AIRCRAFT NOISE VARYING IN INTENSITY, DURATION, NOISE SPECTRUM, FREQUENCY, AND NUMBER OF REPETITIONS

A64-80090

SUBJECTIVE EVALUATION OF DISCOMFORT CAUSED BY DC-8 AND CARAVELLE AIRCRAFT NOISE A64-80673

PERRY, B.

RY, B. L. ANALYTICAL TECHNIQUES FOR HUMAN FACTOR ENGINEERING IN MAN-MACHINE SYSTEMS

ENVIRONMENTAL CONTROL DEVELOPMENT & LUNAR BASE LIFE SUPPORT SYSTEM MODULES N64-13716 PHOTO RECORDING ELECTROMYOGRAPH FOR PHYSIOLOGICAL **PHENOMENA** A64-80260

PERRY, M. INHIBITION OF THIOL-ACTIVATED AMINOPEPTIDASE ENZYME BY BACTERIA-PURDMYCIN NASA-RP-252 N64-26711

PESCE, A. ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC DEHYDROGENASES PUBL . - 281 N64-28295

PESNER, S. INPUT FACTORS AFFECTING ACCURACY WITH WHICH OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET DISPLAYS A64-21610

MEDICAL CLINIC INVESTIGATION OF WATER RECOVERED FROM HUMAN URINE AMRL-TDR-63-70 N64-11445

PESSEREAU, G.
ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN
A64-8

PETER. PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

SKIN AND RECTAL TEMPERATURE AND DXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

A64-81008

PETERS, 8. G. RELATIONSHIP OF MAN TO TOTAL SYSTEM RELIABILITY AND CONTROLS TO INSURE SPACECRAFT MISSION SUCCESS

PROBLEMS IN OPERATING MANNED NUCLEAR SPACECRAFT AND PROTECTION OF SPACECREW

PETERS, G. A.
BIBLIOGRAPHY OF HUMAN FACTORS ENGINEERING - SYSTEM SAFETY, MAINTAINABILITY, PERSONNEL SUBSYSTEM, LIFE SCIENCES, QUALITY CONTROL, AND RELIABILITY RH-339AR N64-18490

BIBLIOGRAPHY ON HUMAN FACTOR ENGINEERING RH-3398-E N64-27351

PETERS. BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH ORBITING STATION NASA-CR-56021

PETERSON, D. I. FORCED EXERCISE OF MOUSE AS RELATED TO BODY TEMPERATURE AND AMPHETAMINE TOXICITY AND PROTECTIVE MODE OF CHLORPROMAZINE

A64-80729

PETERSON, R. L.
BODY SUPPORT CHARACTERISTICS OF NET FABRIC SEAT
CONFIGURATIONS FOR AEROSPACE VEHICLES, EVALUATED
FROM ACCELERATION, IMPACT AND VIBRATION TESTS
A64-206 SAE PAPER 851C A64-20688

PETIT, J. M.
OXYGEN CONSUMPTION DURING DIFFERENT TYPES OF EXERCISE 464-80055

PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND RECUMBENT POSITION

RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO RESPIRATORY RATE

PETROCELLI, A. W.
ALKALI AND ALKALINE EARTH SUPEROXIDES USED IN NONREGENERATIVE AIR REVITALIZATION SYSTEMS FOR SPACE MISSIONS A64-19134 SUPEROXIDES FOR OXYGEN PRODUCTION AND CARBON DIOXIDE REMOVAL IN CLOSED ECOLOGICAL SYSTEMS A64-80831

PETROV, A. P.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT

PETROV, D. F.
RELATION BETWEEN NUCLEAR ELEMENTS AND CYTOPLASM BIOLOGICAL CELL

PETROV, D. G.
PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION

N64-18522

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES FTD-TT-63-1191 N64-24324

REVIEW OF SOVIET ADVANCES IN FIELD OF HYPOXIA A64-81058

ADAPTATION REACTIONS AND PATHOLOGICAL STUDIES OF ORGANISM EXPOSED TO HARMFUL STIMULI

N64-23465

PETROY, R. V.
IMMUNOLOGY OF ACUTE RADIATION INJURY N64-11829

RADIATION EFFECT ON ANTIMICROBIAL IMMUNITY N64-11830

INFECTION PROCESSES IN IRRADIATED ANIMALS -RADIATION FEFECT N64-11831

NONINFECTIOUS IMMUNOLOGY OF RADIATION SICKNESS

PETROV. YE.
ASTRONAUTS ROLE IN SPACE PROGRAM - TRAINING EQUIPMENT AND SPACECRAFT MANEUVERS JPRS-20100 N64-11133

PETROV, YU. M.
VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING TEMPERATURE REGULATION
N64-2 FTD-TT-63-774/162

PETROVICH. I. K. HIGH ENERGY NEUTRON AND PROTON RADIATION EFFECTS ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF APPEARANCE OF TUMORS IN RATS FTD-TT-63-1049/18284 N64-19220

TOXICOLOGY OF RADIOACTIVE IRON FTD-TT-64-599/1 N64-33943

PETROVNIN, M. G.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS JPRS-23678

PETROVSKIY. B. V. SOVIET MEDICINE - VASCULAR SURGERY, METABOLISM, HYPERTENSION, AND THERAPEUTIC UNDERWEAR JPRS-1749R N64-10683

PETRUKHIN, V. G. EFFECT OF SPACE FLIGHT ON HEMATOPOIETIC ORGANS OF MICE

PETRYAYEVSKAYA, N. V.
EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN RABBITS N64-31343

PETSCHEK, R. COLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND ELECTROSHOCK SEIZURES A64-A64-80102

RATE OF LEARNING ON PURSUIT ROTOR TASK AT CONSTANT WORK-REST RATIO WITH VARYING WORK AND REST PERIODS A64-80782

PEVNYY, S. A.

EFFECT OF PHYSICAL STRAIN, HIGH TEMPERATURE, &
HIGH OXYGEN CONTENT IN INSPIRED AIR ON
EXCITABILITY OF VISUAL MECHANISM IN MAN

N64-13583

EFFECT OF ENVIRONMENTAL TEMPERATURE, OXYGEN
CONTENT, AND PHYSICAL EXERTION ON VISUAL
PERCEPTION
FTD-TT-63-980/1&2
N64-23312

PEW, R. W.
HUMAN OPERATOR PERFORMANCE IN BANG-BANG CONTROL
SYSTEM IN PHASE PLANE, INTERPRETING RESULTS IN
TERMS OF SWITCHING LINES
A64-24840

PFEIFFER. R. R. COMMUNICATION BIOPHYSICS - HEARING

N64-17884

PFISTER, A.
ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS
A64-13750

PHANEUF, J.
PRIMARY COMPONENTS OF PROPOSED INSTRUMENTED
ANALYTICAL SYSTEM FOR EXTRATERRESTRIAL ATMOSPHERE,
LIFE FORMS, AND SOIL STUDY
A64-80860

PHELPS, L. J.
EXPOSURE OF MICE TO LOW TEMPERATURES FOR
SUSCEPTIBILITY TESTS TO KLEBSIELLA PNEUMONIAE
AAL-TOR-63-9
N64-18874

PHIL, D.

KETONE PRODUCTION AS HUMAN REACTION TO BIOLOGICAL
STRESSES - COLD, EXERCISE, AND STARVATION
APR-2

N64-3214

PHILIP, 8. A.
PROLONGED STARVATION EFFECT ON BLOOD PLASMA
CONCENTRATION AND EXCRETION OF ADRENAL HORMONES
A64-80767

PHILIPSZOON, A. J.

NYSTAGMUS EVOKED BY LINEAR ACCELERATION ACTING ON
OTOLITH ORGANS OF RABBITS LYING IN LATERAL
POSITION ON PARALLEL SWING

A64-80244

ELECTRONYSTAGMOGRAPHY AS VALUABLE AID IN STUDY ON VESTIBULAR APPARATUS FUNCTION AND TREATMENT OF VERTIGO IN RABBIT A64-81123

PHILLIPS, E. E.
TRANQUILIZING, ANALEPTIC AND VASODILATING DRUGS
EFFECT ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC
TOLERANCE
A64-22057

PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE AS AFFECTED BY TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS A64-80628

EFFECTS OF TRANQUILIZING, ANALEPTIC, AND VASODILATING DRUGS ON PHYSICAL WORK CAPACITY AND ORTHOSTATIC TOLERANCE CARI-63-34 N64-26845

PHILLIPS, P. B.
SHORT TERM PSYCHOTHERAPEUTIC TREATMENT OF AVIATORS
WITH PSYCHOGENIC PROBLEMS, AND SUBSEQUENT FLIGHT
STATUS
A64-10261

FEAR OF FLYING SYNDROME - REAPPRAISAL AND
PROGNOSIS
A64-80181

COMPARISON OF SELECTION STANDARDS FOR ASTRONAUTS AND PILOTS A64-80391

PHILP, R. B.
DECOMPRESSION SICKNESS IN RAT RELATED TO BODY FAT
A64-80328

PHIPPS, C. G.
ELECTRICAL IMPEDANCE PLETHYSMOGRAPH, EMPHASIZING
ITS APPLICATIONS TO WEAPON SYSTEM EVALUATION AND
TO SPACE FLIGHT
A64-10256

PIATT, U. R.
AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED
SUBMARINES
NRL-6053
N64-18868

PICK, H. L., JR.
HUMAN ADAPTION TO LONGTERM EXPOSURE TO OPTICAL
DISTORTION PRODUCED BY WEDGE PRISM

A64-80894

PICKARD, W. F.
PASSIVE ION FLUX THROUGH AXON MEMBRANES

PICKERSGILL, M. J.

N64~29538

MOTION AFTEREFFECT CONSIDERED WITH RESPECT TO ITS ORIGIN A64-80470

PICKETT, B. H.
TACTUAL SPEECH COMMUNICATION IN RELATION TO SKIN
SENSITIVITY AND CODING PARAMETERS
A64-17093

PICKETT, J. M.
TACTUAL SPEECH COMMUNICATION IN RELATION TO SKIN
SENSITIVITY AND CODING PARAMETERS
A64-17093

PICKETT, R. M.
VIGILANCE DEFINED AS THE PROBABILITY OF DETECTING
SIGNALS WHICH ARE WEAK AND RELATIVELY RARE IN
MANNED SPACEFLIGHT
A64-10627

VIGILANCE TEST SHOWING EFFECT OF EVENT RATE ON OBSERVATION PERFORMANCE AND NOTING DECISION THEORY APPROACH

A64-15474

PIEPER, H. P.

CATHETER-TIP FLOW METER FOR MEASUREMENT OF

CORONARY ARTERIAL BLOOD FLOW IN DOGS

SAM-TDR-64-33 N64-29989

PIERCE, C. M.
BIOLOGY OF SPACE FLIGHT - FOOD ATMOSPHERE & WASTE CONTROL, WATER RECOVERY, SURVIVAL, & RELATED SUBJECTS - ANNOTATED BIBLIOGRAPHY SR-63-20 N64-1330!

RADIATION AND RADIOISOTOPES EFFECTS ON BIOLOGICAL SYSTEMS - ANNOTATED BIBLIOGRAPHY TID-3098, BK. 1 N64-19035

ANNOTATED BIBLIOGRAPHY ON RADIATION EFFECTS ON BIOLOGICAL SYSTEMS TID-3098, BK. 2 N64-19036

ANNOTATED BIBLIOGRAPHY OF RADIOISOTOPE & RADIATION EFFECTS ON LIFE PROCESSES

TID-3098/INDEX/ N64-19236
BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND

BIONICS - BIBLIOGRAPHY OF BIOLOGICAL RECEPTORS AND REGULATORS AND APPLICATION TO ENGINEERING DESIGN SRB-63-2 N64-22372

PIERCE, D. M.
MYDELECTRIC POTENTIALS USED TO OPERATE SERVO
BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER
A64-80553

PIERSON, W. R.

RELATIONSHIP OF FATIGUE, WORK DECREMENT AND
ISOTONIC ENDURANCE OF WOMEN IN VISUAL STIMULUS
RESPONSES AS COMPARED TO MALE SUBJECTS UNDER
SIMILAR CONDITIONS
A64-22812

FATIGUE, ENDURANCE, AND REACTION TIME OF WOMEN IN ARM MOVEMENT RESPONSE TO VISUAL STIMULI AS COMPARED TO MEN A64-80683

PIETRAS, R. J.
THORACIC AND ABDOMINAL MASS LOADING EFFECT ON
VOLUME PRESSURE CURVES IN CONSCIOUS AND
ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-B0997

PIETRASANTA, A. C.
AIRCRAFT NOISE EVALUATION AS RELATED TO
RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING
A64-80682

PIIPER, J.
OXYGEN DISSOCIATION CURVE DETERMINATION —
POLAROGRAPHIC MEASUREMENTS OF DXYGEN TENSION
N64-17938

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN ANESTHETIZED DOG - BLOOD FLOW N64-17946

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS

POCKETS IN RATS DURING RESPIRATION

N64-17947

GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER N64-17948

PIIRONEN, P.
EXTREMELY HOT ENVIRONMENT EXPOSURE EFFECT ON THE
TYMPANIC, ESOPHAGEAL, AND RECTAL TEMPERATURE OF
MAN
ARRI-TDR-63-85
N64-12215

THERMAL EXCHANGES OF HUMAN BODY IN EXTREME HEAT AMRL-TDR-63-86 N64-12216

PILOUX, P.

PRESSURE CHANGES IN GERBIL, MERIONES CRASSUS,
AFTER VARIATION OF AMBIENT AIR PRESSURE AND LOUD
PURE TONES

A64-81161

PILOVITSKAYA, V. N.
FUNCTIONAL CHANGES IN ORGANISM AS RESULT OF
BREATHING HIGH OXYGEN-LOW CARBON DIOXIDE GAS
MIXTURE AT REST AND DURING EXERCISE

N64-22170

PINAYEV, G. P.
CRYOGENIC TEMPERATURE & ULTRASONIC VIBRATION
EFFECT ON ACTOMYOSIN N64-13693

PINCHON, R. A.
ELECTROENCEPHALOGRAPIC STUDY OF FATIGUE INDUCED BY
MUSCULAR AND MENTAL WORK, OR SLEEP DEPRIVATION
A64-81153

ELECTROENCEPHALOGRAPHIC SIGNS OF FATIGUE CAUSED BY SLEEP DEPRIVATION A64-81154

PINCUS, G.
RESPONSE OF CHIMPANZEE TO SEVERE ENVIRONMENTAL
STRESS
ARL-TDR-63-26
N64-14044

PINDAK, F. F.
INOCULATION OF DOG LIVER WITH VIRUS FOR
SUSCEPTIBILITY TEST

LF-10 N64-13344

PINET, C.

VERTIGO AND ANXIETY OF PSYCHIC ORIGIN IN A PILOT

PINEVICH, V. V.

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF
INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON
ALGAE
FTD-MT-63-49

N64-18672

PINKERTON, M. K.
PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS,
PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF
ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION
A64-1025

PINTILIE, I.

CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT
NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN
ANTI-G SUIT

A64-80142

PINTO, A. A. T.

AUTORADIOGRAPHIC STUDY OF INCORPORATION OF
TRITIATED THYMIDINE INTO DEOXYRIBONUCLEIC ACID
MOLECULE
LFEN-NI-11 /ALPHA/
N64-29885

PIONTKOVSKIY, I. A.
PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY RADIATION SICKNESS, CONGENITAL DISEASE, AND
HETEROHEMOTRANSFUSION REACTIONS
JPRS-17819
N64-10723

PIPES, W. O.

CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL
DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM
VOLATILIZATION PROCESS
TN-62-13
N64-19556

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA N64-21554

N-62-16 N64-21554

PIROGOV, A. A.

SPEECH SIGNAL TRANSFORMATION FOR USE IN
COMMUNICATIONS AND CYBERNETICS TECHNOLOGY
N64-15169

PISAMO, F. T.
LAP BELT TIGHTENER IMPROVEMENT - SAFETY DEVICE
FA-M64-23-1
N64-17649

PISARENKO, N. F.
RADIATION DOSE ON VOSTOK V AND VOSTOK VI
SPACECRAFT N64-23865

PISKAREVA, YE. V.
FLUORESCENT MICROSCOPIC INVESTIGATION OF FORMED
ELEMENTS IN BLOOD AND BONE MARROW DURING RADIATION
SICKNESS
N64-12782

PITTS, M.
PASSIVE ION FLUX THROUGH AXON MEMBRANES
N64-29538

PIZAK, V.
SURVIVAL TIME OF MICE PROTECTED WITH NITRO—
SUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF
X-RAYS
N64-13507

MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL CAGES AFTER SINGLE X-RAY DOSE N64-13509

PIZZARELLO, D. J.
DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION
IN TWO STRAINS OF MICE A64-80726

PLACER, A. E.
RADIOACTIVITY TABLE FOR DETERMINATION OF DOSAGE TO
BODY ORGANS
N64-11736

PLANELYES, KH. KH.
INFLUENCE OF CHEMOTHERAPEUTIC AGENTS ON PROTECTIVE
FUNCTIONS OF ORGANISMS N64-17170

PLAS, F. R.

ELECTROCARDIOGRAPHIC CHANGES DURING WORK AND
PROLONGED EFFORT

A64-80228

CORONARY DISTURBANCES AND FLYING AS RELATED TO PILOT SELECTION EXAMINATIONS A64-80769

AIR PURIFICATION AND CONTROL ON NUCLEAR POWERED SUBMARINES
NRL-6053
N64-18868

PLATT, M. T.

INCREASED AND DECREASED GRAVITY EFFECTS ON RATS
SUBJECTED TO PROLONGED CENTRIFUGATION

A64-24163

CARBOHYDRATE METABOLISM AND ADRENAL CORTICOSTERONE ELABORATION OF STARVED AND UNSTARVED MICE OF DIFFERENT AGES EXPOSED TO CHANGES IN GRAVITY A64-R0815

DECELERATION EFFECTS ON BODY WEIGHT AND FOOD AND WATER INTAKE OF RAT EXPOSED TO PROLONGED CENTRIFUGATION A64-80914

PLATZ, A.

MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION
BEHAVIOR IN RELATION TO ANXIETY AND SHOCK

864-80150

PLAUTH, W. H., JR.
CIRCULATORY RESPONSE TO HYPOXIA IN
UNANESTHETIZED DOG WITH AND WITHOUT
CARDIAC DENERVATION
A64-81061

- PLESS, D. A.
 MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST
 STIMULATION AND INHIBITION N64-12515
- PLEVNIK, S.
 PROBLEMS IN AEROSPACE MEDICINE WEIGHTLESSNESS,
 RADIATION, METEORITE IMPACT, ARTIFICIAL
 ATMOSPHERE, DARKNESS, SILENCE, AND LOW TEMPERATURE
 FTD-TT-64-203/1 N64-31073
- PLISKOFF, S. S. SENSORY STIMULATION & CONDITIONED RESPONSE N64-22418
- PLOMP, R. EAR AS FREQUENCY ANALYZER A64-81235
- PHOTKIN, R.-PHYSIOLOGICAL REACTIONS OF MEN TO COLD IN ANTARCTICA A64-80695
- PLUTCHIK, R.

 RATE OF LEARNING ON PURSUIT ROTOR TASK AT CONSTANT
 WORK-REST RATIO WITH VARYING WORK AND REST PERIODS

 644-80782

AUDITORY PAIN THRESHOLDS FOR INTERMITTENT WHITE
NOISE
AD-236942
N64-15889

- POCZTARSKA-BIELECKA, J.
 TELEMETRIC RECORDING OF RESPIRATORY AND PULSE RATE
 DURING EXERCISE EVALUATION OF FATIGUE AND
 CARDIOVASCULAR SYSTEM
 A64-80475
- PODDUBNAIA, L. T.
 TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING
 FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS
 A64-25588

EMISSION OF TOXIC GASES BY HUMANS IN HERMETICALLY SEALED CABIN WITH REFERENCE TO AIR PURIFICATION REQUIREMENTS A64-25589

- PODDUBNAIA, V. A.
 ULTRASOUND AND TEMPERATURE EFFECT ON COLLOID
 PROPERTIES OF HUMAN SERUM
 A64-80360
- PODDUBNAYA, L. T.
 TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA
 N64-23754

TOXIC GASEOUS PRODUCTS EXCRETED BY HUMANS ENCLOSED IN AIRTIGHT CHAMBER N64-23755

- PODIVINSKY, F.

 ELECTROMYOGRAPHIC ANALYSIS OF SIMPLE VOLUNTARY
 MOVEMENT AND SPREAD OF EXCITATION TO CONTRALATERAL
 INACTIVE EXTREMITY

 A64-80047
- PODDLYAN. V. YA.

 PATHOGENIC EFFECT OF LOW & MEDIUM DOSES OF GAMMA
 RADIATION ON CARRION FLIES AND THEIR PROGENY
 1985-22107
 N64-11272
- RADIATION ON CARRION FLIES AND THEIR PROGENY
 JPRS-22107 N64-1127

 POE, T. H.
 EMERGENCY SUPPLY INITIAL SUPPORT FOR FLIGHT

MEDICINE AND BIOENVIRONMENTAL ENGINEER

- POGOSYAN, R. I.
 EFFECT OF IONIZING RADIATION ON RETINA AND OTHER
 PHOTOSENSITIVE SYSTEMS
 FTD-TT-63-163/1&2&4
 N64-22343
- POKOTILENKO, G. M.
 PYRIDOXINE THERAPY OF INDUCED LEAD AND BENZENE
 POISONING IN RABBIT
 A64-81052
- POKROVSKIY, A. A.

 MEDICAL RESEARCH ON HUMAN BODY
 JPRS-25241

 N64-22744
- JPRS-25241 N64-22744

 AMINO ACIDS IN HUMAN DIET NUTRITION STUDY
 FTD-TT-64-148/164 N64-23308
- POKROVSKY, A. A. EFFECTIVENESS OF USING ENZYMES AS INDICATORS FOR TOXIC SUBSTANCE DETECTION

JPRS-25986

N64-27668

- POLIAKOV, B. I.
 GRADUAL STIMULATION OF SEMICIRCULAR CANALS TO
 DETERMINE TIME CORRELATION BETWEEN VESTIBULAR
 STIMULI STRENGTH AND VEGETATIVE REACTIONS
 A64-25596
- POLIDORA, V. J.
 VISUAL SIGNAL-FROM-NOISE DETECTION BY MONKEY UNDER
 INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND
 SODIUM PENTOBARBITAL
 A64-80906
- POLIKARPOV, G. G.
 DATA ON ACCUMULATION COEFFICIENTS OF RADIDACTIVE
 ISOTOPES IN MARINE PLANTS AND ANIMALS
 JPRS-24227
 N64-18969
- POLISSAR, M. J.
 CONVECTION IN LOW INTENSITY GRAVITATIONAL FIELDS,
 AND SIMULATION WITH SIMILAR DENSITY LIQUIDS
 N64-15212
- POLITOVA, YE. M.
 BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION
 SICKNESS IN RATS
 JPRS-18153 N64-10744
- POLLACK, I.

 HUMAN PERFORMANCE IN SOUND LEVEL IDENTIFICATION
 FOR LEVELS WITH AN UNBALANCED PROBABILITY OF
 OCCURRENCE
 USAF ESD-TDR-62-352

 A64-10959

HUMAN SENSORY DISCRIMINABILITY MEASURED ON BASIS
OF UNBIASED WORD INTELLIGIBILITY TESTS, NOTING
HIGHER VALUES FOR EXPECTED WORDS THAN FOR
UNEXPECTED WORDS

A64-19519

INTERACTION OF FORWARD AND BACKWARD MASKING IN
LISTENING TO TONAL PULSE
A64-80642

- POLLARD, E. C.
 EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
 NASA-CR-55656 N64-16326
 - BEHAVIOR OF BIOLOGICAL CELLS & SYSTEMS UNDER CONDITIONS OF WEIGHTLESSNESS NASA-CR-56482 N64-22420
- POLLARD, L. W.
 ATRIAL FIBRILLATION IN FLYING PERSONNEL

A64-80659

- POLLOCK, W. T.
 EXPERIMENT FOR COLLECTING EMPIRICAL DATA ON HUMAN
 PERFORMANCE IN COMMAND AND CONTROL SYSTEMS
 A64-22513
- POLLYCOVE, M.

 DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN
 BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON
 ISOTOPE AND POSITRON SCINTILLATION CAMERA
 N64-22853
- POLTAVETS, I. M.
 THERAPY OF PATIENTS WITH RADIATION INJURIES MEDICINE
 FTD-TT-63-610/182
 N64-22652
- POLTEY, V. I.
 TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID
 COMPONENTS AND ROLE IN MUTAGENESIS
 N64-28035
- POLYAKOV, B. I.

 AUTONOMIC NERVOUS SYSTEM REACTIONS FROM
 STIMULATION OF VESTIBULAR ANALYZER

 N64-23762

NO4-23102

- POLYAKOV, V. I.

 PULSE TECHNIQUE FOR RECORDING BLOOD PRESSURE

 OF DOGS DURING SPACE FLIGHTS PHONOCARDIOGRAPHY

 N64-11705
- POLYANSKIY, YU. N.
 BIOPHYSICS DEFINITION & METHODS OF INVESTIGATION
 JPRS-22830 N64-13353

A64-81078

POMBRAK, G. L.
TREATMENT OF BENZENE, TOLUENE AND XYLENE POISONING
IN WOMEN AFTER FORTY
A64-81246

POMERANTSEVA, M. D.
COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND
X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
JPRS-21521
N64-10326

RADIATION EFFECT ON SPERM MUTATION, YEAST CELL RESTORATION, & LIVER REGENERATION, AND SHIELDING ACTION OF CYSTAMINE JPRS-22083

GENFTIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS
N64-12794

POMERANZ, R. B.
ACCOMMODATION AND CONVERGENCE CONSIDERED MITHIN
CONTEXT OF ADJUSTMENT TO SPATIAL ENVIRONMENT AS
FUNCTION OF EXOPHORIA AND HYPEROPIA.

A64-80026

POMPEIAND, O.
VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND ELECTRONYSTAGMOGRAPHIC RECORDINGS

A64-80681

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES
INDUCED BY ELECTRICAL STIMULATION OF MUSCLE
AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT
A64-81066

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM

A64-81067

N64-25970

PONNAMPERUMA, C.
FORMATION OF GUANINE DURING THERNAL POLYMERIZATION
OF AMINO ACIDS
A64-16287

FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION
OF ADENINE AND RIBOSE N64-11375

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS
NASA-RP-94
N64-13168

EVOLUTION OF INORGANIC, ORGANIC, AND BIOLOGICAL MATERIALS AND ORIGIN OF LIFE NASA-TM-X-54008 N64-22754

BIOLOGICAL SYNTHESIS OF NUCLEIC ACID CONSTITUENTS NASA-TM-X-54021 N64-22771

CHEMICAL EVOLUTION AND ORIGIN OF LIFE NASA-RP-233

PONOVICH, P. R.
CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA
MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III

POOCK, G. K.
VISUAL MONITORING PERFORMANCE AS INFLUENCED BY
SECONDARY TASK OF SIMPLE MENTAL ARITHMETIC

POORTMANS, J.
TRYPTOPHAN-RICH PREALBUMIN EXCRETION AFTER
STRENUOUS EXERCISE
A64-80006

POPE, L. T.
AUDITORY SIGNAL FOR FEEDBACK IN SIMPLE REMOTE
CONTROL HANDLING TASKS
AMRL-TDR-64-46
N64-2743

POPE, T. C.
HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC
STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO
FLOW FIELD AT NOSE
REPT.-2-59740/3R-479
N64-15343

POPKOV, V. L.
BRAIN OXYGEN TENSION IN DOGS DURING POSITIVE,
NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80043

BRAIN DXYGEN TENSION IN DOG DURING POSITIVE, NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80359

OXYGENATION OF BRAIN TISSUE IN DOG DURING BREATHING OF VARIOUS CONCENTRATIONS OF CARBON DIOXIDE AND OXYGEN A64-80793

POLAROGRAPHIC METHOD FOR STUDY OF DXYGEN SATURATION OF BRAIN TISSUE IN DOG

A64-B1254

OXYGEN SATURATION IN BRAIN TISSUE IN DGG INHALING VARIOUS GASEDUS MIXTURES A64-81255

CEREBRAL HYPOXIA IN RESPONSE TO GRAVITY EFFECT WHILE BREATHING DXYGEN JPRS-21984 N64-10388

EFFECT OF TRANSVERSE ACCELERATION ON OXYGEN
TENSION IN BRAIN TISSUE
FTD-TT-63-1215/18284 N64-22665

POLAROGRAPHIC METHOD OF DETERMINATION OF DXYGEN TENSION IN BRAIN TISSUES DURING HIGH ALTITUDE FLIGHT N64-27634

OXYGEN TENSION IN LIVING BRAIN TISSUE OF DOG DURING LONG ACCELERATION FTD-TT-63-848/182 N64-29278

POPMA, D. C.
LIFE SUPPORT SYSTEMS FOR LONG DURATION SPACE
EXPLORATION MISSIONS
NASA-RP-135
N64-15843

POPOV, N. N.
PHYSIOLOGICAL EFFECTS ON MICE AND DOGS OF LANDING
IMPACT OVER LOADS, INCLUDING CARDIOVASCULAR SYSTEM
A64-7274

POPOV, O. V.
PROBLEMS OF PATHOGENESIS, DISEASE PREVENTION, &
THERAPY OF RADIATION INJURY
N64-12804

POPOVA, L. YA.
PROTEIN CONTENT OF BLOOD SERUM DURING ACUTE
RADIATION SICKNESS N64-12778

NUCLEIC ACID METABOLISM IN RAT SPLEEN AND BONE MARROW DURING ACUTE RADIATION SICKNESS

N64-12781

POPOVICH, P. R.
CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA
MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT
A64-11351

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT A64-17074

HUMAN EFFICIENCY, PERFORMANCE, AND COMMUNICATION DURING FLIGHTS OF VOSTOK III AND VOSTOK IV N64-16399

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT
NASA-TT-F-8825 N64-23042

POPPENDIER. M. F.
THERMAL AND ELECTRICAL CONDUCTIVITIES OF
BIOLOGICAL FLUIDS AND TISSUES
GLR-24
N64-25892

PORESHINA, L. P.
METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED
SENSITIVITY N64-12771

PORRAS, F. K.
BLOOD CHOLESTEROL AND LIPIDS IN WORKERS AT
ALTITUDE A64-80182

POST, B.
TIME RELATIONS OF OBJECTIVE AND SUBJECTIVE
REACTIONS TO D-AMPHETAMINE AND PHENOBARBITAL
A64-80780

- POSTNIKEVA, M. S.
 REACTION OF IRRADIATED PROTEIN RADICALS WITH
 RADICAL-REACTION INHIBITORS N64-12897
- POSTUPAEV, V. V.

 ADRENGCORTICOTROPIN AND ADENGSINE TRIPHOSPHATE
 EFFECTS ON HEXOKINASE ACTIVITY OF SKELETAL MUSCLES
 AND HEART DURING HYPOXIA IN RATS
- POTOCKO, R. J.
 BIBLIOGRAPHY ON HUMAN FACTORS SYSTEM PROGRAM
 NASA-SP-7014 N64-28317
- POULIGT, M.
 NORADRENALINE FUNCTION IN COLD ACCLIMATIZATION OF
 RAT
 A64-8106
- POULTON, E. C.
 FALLING EFFICIENCY AT SORTING CARDS AND WEIGHT
 LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN
 HIMALAYAS
 A64-8091
 - LEARNING AND EFFECT ON PURSUIT TRACKING TASK WITH COMPLEX AND SIMPLE INPUT A64-81189
- POZHIDAYEV. YE. A.
 MORTALITY OF RAT FETUS AFTER IRRADIATION OF
 PARENTAL GAMETES
 NASA TT-F-9036 N64-27369
- POZZANI, U. C.
 POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY
 INHALATION OF NINE SOLVENT VAPORS

 A64-81096
 - BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242
- POZZI, G.

 NEUROVEGETATIVE CONDITIONS AND OCCUPATIONAL
 PATHOLOGY

 A64-81127
- PRATHER, W.

 PERSONALIZED RADIO TELEMETRY SYSTEM FOR
 IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS
 SYSTEM UNDER AEROSPACE STRESS CONDITIONS

 A64-23809
- PRATT, K. L.
 SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN
 ELECTROENCEPHALOGRAPHY A64-25557
 - ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
 DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
 AIR FORCE CREWS AND RECRUITS A64-80947
- PRAVDINA, K. I.

 INCREASED DESOXYRIBONUCEASE ACTIVITY UNDER X-RAY
 IRRADIATION IN LIVER & SPLEEN N64-13694
- PREGER, R. L.
 COMPUTER SIMULATION OF ELECTRONIC NETWORK
 EMULATING PHENOMENON OF CONDITIONED REFLEX
 A64-24823
- PREISLER, E.
 HUMAN SERUM ELECTROLYTE AND IRON CONCENTRATION
 CHANGES DURING PHYSICAL EXERCISE
 A64-80776
- PREOBRAZHENSKIY, N. N.
 MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE
 ACTIVITY OF CENTRAL NEURONS OF BRAIN
 N64-19440
- PRESMAN, A. S.
 BIOLOGICAL EFFECT OF MICROWAVES ON ORGANISMS
 JPRS-22580 N64-12357
- PRESSMAN, G. L.
 TRANSDUCER FOR CONTINUOUS EXTERNAL MEASUREMENT OF
 ARTERIAL BLOOD PRESSURE N64-1618
- PRESTON, R. J.
 INTERDISCIPLINARY APPROACH TO BIOASTRONAUTIC
 RESEARCH A64-81034

- PRICE, H. E.
 PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM
 NASA-CR-95
 N64-30831
- PRIEDE, I.
 VIBRATIONAL STRESS ON PLASMA AND URINARY
 CORTICOSTEROID LEVELS
 A64-22064
 - WHOLE BODY VIBRATION EFFECTS ON PLASMA AND URINARY CORTICOSTEROID LEVELS A64-80636
- PRIGMORE, J. R.
 HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED
 FOR DENTAL SURGERY
 SAM-TDR-63-11
 N64-12366
 - PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES SAM-TOR-64-37 N64-29286
 - PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES
 ONE AND TWO HOURS AFTER RECEIVING GRADED
 INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN
 SAM-TDR-64-50
 N64-31053
- PRILUTSKIY, V. I.

 EFFECT OF STRONG STRESS AND HIGH DOSES OF
 ADRENGCORTICOTROPIN HORMONE ON MORPHOPHYSIOLOGICAL
 REORGANIZATION OF RAT ADRENAL GLAND

 N64-31345
- PRINCIPE, S.
 ESTIMATION OF BODY WEIGHT ACCORDING TO HEIGHT AND THORACIC PERIMETRY IN HUMAN A64-81128
- PRINE, J. R.
 ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR
 IN JAVA MONKEY
 A64-80335
- PRITCHARD, D. J.

 MECHANICAL TECHNIQUES FOR KILLING, REMOVING OR
 CONTROLLING MICROORGANISMS IN HYDROCARBON FUELS
 ASD-TDR-63-242
 N64-19892
- PRITCHARD, J. F.
 PSYCHOPHYSICAL JUDGEMENTS REFLECTING FORMATION OF
 INTERNAL NORM FROM FOCAL STIMULUS, RESIDUAL
 STIMULATION, & BACKGROUND ADAPTATION-LEVEL
 THEORY
 TR-17
 N64-27095
- PRIVES, M. G.
 G-FORCE EFFECTS ON VASCULAR SYSTEM STRUCTURE
 JPRS-22956
 N64-14134
- PROKHONCHUKOV, A. A.

 DENTAL TISSUE CHANGES IN RATS AFTER REPEATED SMALL

 DOSES OF IONIZING RADIATION

 NASA-TT-F-8851 N64-23046
- PROKHOROV, A. I.
 BIONICS PROBLEMS, ACHIEVEMENTS, OUTLOOK
 FTD-TT-63-557/1&4 N64-12845
 - APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA FTD-TT-63-521/184 N64-22182
- PROKOFYEVA-BELGOVSKAYA, A. A.
 INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &
 DEVELOPMENT IN ACTINOMYCETES AND PLANTS
 N64-11682
- PROKOPCHUK, A. YA.
 TRACE ELEMENTS IN RADIATION DERMATITES
 JPRS-25502 N64-25198
- PROPMET, W. W.

 DESIGN CRITERIA FOR FLIGHT TRAINING DEVICES AND
 SIMULATORS, WITH EMPHASIS ON TASK FIDELITY

 A64-13776
- PROSINA, T. I.

 DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD
 VOSTOK V AND VOSTOK VI SPACESHIPS

 A64-18573

PROTASOVA, T. N.
EFFECT OF PROTECTIVE-THERAPEUTIC COMBINATIONS ON
GAMMA RADIATION SICKNESS IN RATS
JPRS-22123
N64-11358

PROVINS, K. A.
TIME DISCRIMINATION RELATED TO BODY TEMPERATURE
AND PULSE RATE IN HOT ENVIRONMENT

VISUAL AND AUDITORY VIGILANCE DURING EXPOSURE TO HOT AND HUMID CONDITIONS A64-81191

PROVOST, E. E.

ANIMAL POPULATION AND ECOLOGY AT ATOMIC POWERPLANTS
TID-19562
N64-16554

BRAIN SEROTONIN AND BEHAVIOR IN SELECTED STRAINS
OF RATS
UCRL-11179
N64-25204

PRYOR, R.
CARDIOVASCULAR SYSTEM IN CHILDREN FROM HIGH
ALTITUDE
A64-80311

PTITSYN, O. B.

FLEXIBILITY OF MOLECULES OF NATURAL DNA DETERMINATION USING LIGHT SCATTERING AT LARGE
ANGLES
N64-19783

PUCCINELLI, R.
DEVICE FOR THE CYCLE-BY-CYCLE MEASUREMENT OF
CARDIAC FREQUENCY A64-80023

VENTILATORY RESPONSE TO HYPERCAPNIA DURING HYPOXIA AND HYPEROXIA IN NORMAL AND CHEMODENERVATED DOGS A64-80052

HYPERVENTILATION IN INTACT AND CHEMODENERAVATED DOGS IN RESPONSE TO HYPERCAPNIA

A64~80053

CONTINUOUS MEASUREMENT OF ALVEOLAR AIR COMPOSITION A64-80056

PUCHINSKAIA, L. M.
HUMAN CONDITIONED REFLEX POTENTIAL EVOKED BY
COMBINED STIMULI OF SOUND AND LIGHT MONITORED BY
ELECTROENCEPHALOGRAPH
A64-81082

PUGH, L. G. C. E.
HIGH ALTITUDE EFFECTS IN MUSCULAR EXERCISE
INCLUDING WORK RATE, OXYGEN INTAKE, VENTILATION
AND HEART RATE
A64-23257

TOLERANCE TO EXTREME COLD AT ALTITUDE IN A NEPALESE PILGRIM A64-80121

BLOOD VOLUME AND HEMOGLOBIN CONCENTRATION AT ALTITUDES ABOVE 18,000 FEET A64-80400

PHYSIOLOGICAL, PSYCHOLOGICAL, AND NUTRITIONAL FACTORS IN MOUNTAIN EXPLORATION ABOVE 5,000 METERS

A64-B0433

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO OXYGEN INTAKE, VENTILATION, AND HEART RATE A64-80515

CARDIAC OUTPUT DURING MUSCULAR EXERCISE AS A FUNCTION OF ALTITUDE ACCLIMATIZATION AT 19,000 FEET IN THE HIMALAYAS A64-80517

HIGH ALTITUDE EFFECT ON BASAL METABOLISM AND RESPIRATION IN MEN DURING PROLONGED STAY AT 5,800 METER /19,000 FEET/ ELEVATION IN HIMALAYAS A64-80995

PUGINSKIY, V. S.
LOGIC DIAGRAMS IN PLANNING AND ORGANIZATION OF
TRAINING PROCESS N64-30219

PUHARICH, H. K.
AUDITORY STIMULATION BY MODULATED ALTERNATING
CURRENT APPLIED TO SKIN OF TOTALLY DEAF HUMAN
A64-80833

PULATOVA, M. K.

ELECTRON PARAMAGNETIC RESONANCE OF PARAMAGNETIC
CENTERS IN AMINO ACIDS AND PROTEINS DUE TO GAMMA
RADIATION
JPRS-23983

N64-18138

PUNI, A. TS.
KINESTHETIC SPATIAL DISCRIMINATION IN SPORTS
N64-25154

PUNTE, C. L., JR.
PARTICLE SIZE CONSIDERATIONS OF AIRBORNE
CONTAMINANTS
N64-24628

PURVIS, R. E.
QUEUING MODEL FOR DETERMINING MANPOWER AND
TRAINING - HUMAN ENGINEERING
AMRL-TDR-64-21
N64-19101

PYATYGORSKYY, B. YA.
ELECTROMETRIC AMPLIFIER FOR USE MITH HIGH
RESISTANCE GLASS MICROELECTRODES IN MEASURING
IONIC ACTIVITY IN MUSCLE AND NERVE CELLS

Q

QUATTRONE, P. D.
ABSORPTION BED, CATALYTIC BURNER, AND FILTERING
SYSTEM FOR TRACE CONTAMINANT REMOVAL
N64-24626

QUIGLEY, D. G.
CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO
ATMOSPHERE OF INCREASED OXYGEN PARTIAL PRESSURE
AND NITROGEN
A64-22053

INCREASED DXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

QUINLAN, M. J.
NEUROLOGICAL EFFECTS OF IRRADIATION OF HEAD IN DOG
A64-80332

QUON, J. E.
CHEMICAL CHANGES OF HUMAN WASTE UNDERGOING THERMAL DECOMPOSITION AND GROWTH OF CHLORELLA ON ASH FROM VOLATILIZATION PROCESS
TN-62-13 N64-19556

COMBUSTION OF HUMAN WASTE AND PRODUCT RECOVERY BY CHLORELLA N64-21554

R

RABBITT, P. M. A.

AGE FACTOR AND FORESIGNAL IN CHOICE REACTION TASK
PERFORMANCE IN YOUNG AND AGED ADULT HUMAN

A64-80972

AGE FACTOR AND REACTION TIME IN PERFORMANCE OF CARD SORTING TASK BY AGED AND YOUNG ADULT HUMAN

A64-80973

RABINOVICH, N. E.
STROBOSCOPE WITH SYNCHRONIZING FEEDBACK FOR STUDY
OF VOCAL CORDS N64-30394

RABKIN, YE. B.
LIGHT AND COLOR IN NATURE, STRUCTURE OF HUMAN EYE,
AND HYGIENE OF COLOR VISION
JPRS-25184
N64-22742

RADDI, R.
HUMORAL FACTOR AND IMMUNIZATION CHANGES IN RABBIT
AFTER BENZENE POISONING
A64-80670

BENZENE POISONING IN RABBIT AND CHANGES IN IMMUNIZATION AND TYPHOID ANTIBODY LEVEL A64-80671

RADERMECKER, M.
RELATION OF INTRAPULMONARY MECHANICAL FACTORS TO
RESPIRATORY RATE
A64-80598

RADFORD, E. P., JR.
LUNG VOLUME, COMPLIANCE, AND ARTERIAL OXYGEN AND
CARBON DIOXIDE TENSIONS DURING CONTROLLED
VENTILATION OF DOGS WITH PURE OXYGEN

A64-80700

RADIONOVA, YE. A.

MEASUREMENT OF INTENSITY OF SHORT SOUND SIGNAL AT
PRIMARY NEURON LEVEL OF AUDITORY SYSTEM
JPRS-18659
N64-11414

RADKEVICH, L. A.
PLASMA NONESTERIFIED FATTY ACIDS IN RATS SUBJECTED
TO GRAVITATIONAL ACCELERATION
NASA-TT-F-197
N64-26782

RADLIFF, M. H.

PHYSIOLOGICAL EVALUATION OF DIVERS MET SUIT IN
SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS
RELATED TO SKIN AND RECTAL TEMPERATURES

A64-80179

RADNOT, M.
LIGHT AS REGULATOR OF NEUROENDOCRINE FUNCTION
A64-81090

RADVAD-ZIEMNOWICZ, S. A.
RECORDING METHOD FOR MONITORING BRAIN AND EYE
CIRCULATION A64-12942

DISTURBANCES PRODUCED BY TEMPORARY, LOCALIZED CEREBRAL ISCHEMIA SIMILAR TO THOSE CAUSED BY ACCELERATION AND DECELERATION A64-80859

RAEVA, S. N.
ELECTROENCEPHALOGRAPHIC RESPONSE TO TACTILE AND AUDITORY STIMULATION IN MAN A64-80236

RAGLAND, S., JR.
MEDICAL SAFETY MEASURES DURING MANNED CENTRIFUGE
EXPERIMENTS
NAOC-ML-6410
N64-30169

FLIGHT SIMULATION AND EFFECTS OF SEVERE AIR
TURBULENCE ON JET AIRLINE PILOTS
NADC-ML-6411 N64~31666

RAGLE, J. L.
STATIC MAGNETIC FIELD EFFECT ON BIOLOGICAL
ENTITIES
A64-19140

RAHLMANN, D. F.
PHYSIOLOGICAL CHARACTERISTICS OF PIG-TAILED
MONKEY, MACACA NEMESTRINA, USEFUL FOR LIFE SUPPORT
SYSTEM DESIGN FOR ZERO GRAVITY STUDY BY NASA
BIOSATELLITE PROGRAM
A64-80261

RAHN, H.

HYPERBARIC OXYGEN BREATHING AND PERSISTENCE OF
VISION IN RETINAL ISCHEMIA A64-81016

RESPIRATORY PHYSIOLOGY AND PULMONARY CIRCULATION AMRL-TDR-63-103/1/ N64-17926

ABDOMINAL & THORACIC PRESSURES AT DIFFERENT LUNG VOLUMES N64-17927

CARBON DIOXIDE CONTENT OF VENOUS & ARTERIAL BLOOD AND CARDIAC OUTPUT N64-17933

GAS EXCHANGE WITH AIR DURING BREATH-HOLDING
N64-17934

GAS EXCHANGE OF CARBON DIOXIDE AND OXYGEN IN ALVEOLAR REGION DURING DIVING & ADVERSE BREATHING MODES N64-1793

BREATH HOLDING METHODS OF STUDYING CARBON DIOXIDE, OXYGEN TENSION, AND EFFECTS OF ALTITUDE ACCLIMATIZATION ON RESPIRATION N64-17936

OXYGEN DISSOCIATION CURVE DETERMINATION POLAROGRAPHIC MEASUREMENTS OF OXYGEN TENSION
N64-17938

VENTILATION-PERFUSION RELATIONSHIP IN GAS EXCHANGE OF LUNGS N64-17939

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY
VEIN N64-17943

DISTRIBUTION OF LUNG DIFFUSING CAPACITY IN
ANESTHETIZED DOG - BLOOD FLOW N64-17946

ABSORPTION OF INERT GASES FROM SUBCUTANEOUS GAS POCKETS IN RATS DURING RESPIRATION

N64-17947

GAS COMPOSITION OF GAS POCKETS & FISH SWIM BLADDER N64-17948

DYNAMICS OF CHANGES IN CARBON DIOXIDE IN BODY AND BLOOD N64-17950

DXYGEN STORAGE IN HUMAN BODY

N64-17951

NITROGEN GAS IN BIOLOGICAL PROCESSES OF THE LUNG
N64-17952

SURVIVAL OF MICE IN ABSENCE OF INERT GAS

N64-17953

GASEOUS ENVIRONMENT AND ATELECTASIS - RESPIRATORY PHYSIOLOGY N64-17955

RESPIRATORY PHYSIOLOGY AND GAS EXCHANGE IN WATER MEDIUM N64-17956

RAINEY, C. A.

LEFT-RIGHT DIFFERENCES IN TACHISTOSCOPIC
RECOGNITION WITH SIMULTANEOUS OR SUCCESSIVE
PRESENTATION OF STIMULI
A64-B0063

RALSTON, H. J.

RESPIRATORY AND METABOLIC CHANGES DURING PASSIVE
AND ACTIVE MOVEMENT OF THE LOWER EXTREMITIES IN
SUPINE POSITION
A64-8007

RAMALHO, P. S.
HIGH PRESSURE OXYGEN AND CARBON DIOXIDE TENSION AS
RELATED TO RETINAL BLOOD VESSELS AND INTRAOCULAR
PRESSURE
A64-80908

RAMAN, K. R.
BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES
USING AUSCULTATORY TECHNIQUES
NASA-CR-56024
N64-2058

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED ARTERIES NSA-CR-56470 N64-22425

RAMANATHAN, N. L.
HUMAN SKIN TEMPERATURE AND NONEVAPORATIVE HEAT
EXCHANGE WITH THE ENVIRONMENT A64-80163

RAMAYYA, L. K.
COMPARATIVE BIOLOGICAL EFFECT OF FAST NEUTRONS AND
X-RAYS UPON MOUSE REPRODUCTIVE SYSTEM
1PRS-21521
N64-10326

GENETIC MUTATION OF MOUSE SPERM BY FAST NEUTRONS N64-12794

RAMBOURG, A.
ACCELERATION EFFECTS IN ADRENAL GLANDS OF RATS
A64-13750

RAND, P. W.
PH-TEMPERATURE CONVERSION FACTOR AND CARBON
DIOXIDE FACTOR IN HYPOTHERMIA IN ILL AND NORMAL
ADULTS
A64-81010

RANDLE, R. J., JR.
BEHAVIORAL TESTING DURING 7-DAY CONFINEMENT IN
SIMULATED SPACE CAPSULE - PATTERN RECOGNITION TASK
NASA-TN-D-1974 N64-11549

RANSOM, R.
VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT
ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX
A64-80069

RAO, B.

X-RAY AND TRITIUM-LABELED-THYMIDINE STUDIES OF
CHROMOSOME DIVISION DELAY AND RATE OF

DESOXYRIBONUCLEIC ACID SYNTHESIS UCRI -10979

N64-14428

RAPOPORT, J.
MOTION PERCEPTION - ADAPTATION IN PERCEPTION OF A64-80357 ROTATING PATTERN

TESTS ON WHITE RATS TO INVESTIGATE RADIATION PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS INFLUENCED BY BIOGEN AMINES

A64-

RAPOPORT, S. YA.

NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS
IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS
IN RADIATION SICKNESS

N64-10066 N64-10066 JPRS-21492

RARRICK- H. L.

RADIOLOGICAL SAFETY CONSIDERATIONS - EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING MEAPONS SC-4973/RR/ N64-14046

RASCHEMSKAJA, A.
PHYSIOLOGY & PATHOLOGY OF MATER & SALT METABOLISM
AND FLUID BALANCE OF WORKERS IN HOT ENVIRONMENTS
N64-3339 N64-33399 NASA-TT-F-9120

RASMUSSEN, N. C.

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL THERAPY FACILITY BEAM MITNE-47 N64-25472

RASMUSSEN, R. E.
EARLY ONSET OF THIAMINELESS DEATH IN BACTERIAL
STRAINS AFTER EXPOSURE TO ULTRAVIOLET LIGHT PN-6117

INFLUENCE OF RADIDACTIVE THYMIDINE ON X-RADIATION EFFECTS ON DESOXYRIBONUCLEIC ACID SYNTHESIS

RADIATION EFFECTS OF CARBON-LABELED AND TRITIUM-LABELED THYMIDINE ON CELL GROWTH NASA-RP-196 N64-22071

DOSE-DEPENDENT DEPRESSION OF DEOXYRIBONUCLEIC ACID STUDY BY X-RAY IRRADIATION AND BROMURACIL DEDXYRIBOSIDE IN MAMMALIAN CELLS

NASA RP-245 N64-27352

RASTOGI. R. G. LONGITUDINAL DEPENDENCE OF DAILY VARIATIONS IN F-2 LAYER CRITICAL FREQUENCY FOR EQUATORIAL REGIONS

RATH, G. J.
PREPARATION OF PROGRAMMED INSTRUCTION FOR
AUTOMATED TRAINING IN DECISION MAKING - PERT PROGRAM ESD-TDR-63-608 N64-12319

RATHERT, G. A., JR.
PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-14519

RAU, F. P.
CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND HE I GHT A64-80797

RAUSHENBAKH, M. O.
INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS

RAVICH-SHCHERBO, M. I.
RADIATION SICKNESS - PROTECTIVE EFFECT OF
BACTERIAL ANTIGENS, ACCUMULATION OF IODINE 131, &
REGENERATION OF SCIATIC NERVE JPRS-24704 N64-20827

ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION N64-26722 FTD-TT-63-933/162

CONTINUOUS MEASUREMENT OF ALVEOLAR AIR COMPOSITION

A64-80056

RAZARENOVA, V. A. PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY -RADIATION SICKNESS, CONGENITAL DISEASE, AND HETEROHEMOTRANSFUSION REACTIONS

RAZBITNAYA, L. M.
REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY
CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES JPRS-18775

RAZGOVOROV, B. L.
MICE IRRADIATION TESTS FOR EFFECTIVENESS OF
PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

RAZUMEYEV, A. N.

BIOELECTRIC ACTIVITY OF CEREBRAL CORTEX IN RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS OF ELECTROENCEPHALOGRAMS A64-25599

VARIATIONS IN NEURON RHYTHM OF RETICULAR FORMATION TO TRANSVERSE ACCELERATION STRESS A64-80896

HYPOXIC EFFECT ON POTENTIALS OF CEREBRAL CORTEX AND SUBCORTICAL AREAS OF BRAIN IN RABBIT

A64-81253

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765

REACTION OF NEURONS OF VESTIBULAR NUCLEI TO STIMULATION OF VESTIBULAR APPARATUS THROUGH PASSIVE VERTICAL MOTION OF ANIMALS JPRS-25896 N64-27323

RAZUMOVSKIY, N. O.
REMOVING RADIDACTIVE ISOTOPES FROM ORGANISMS BY
CHEMICAL MEANS — CHELATE AND OTHER COMPLEXES JPRS-18775 N64-10456

REA. D. G. EVIDENCE FOR EXISTENCE OF LIFE ON MARS

N64-14741

INFRARED SPECTRUM OF MARS - THEORY OF PRESENCE OF EXTRATERRESTRIAL LIFE NASA-CR-50208 N64-22764

READ, D. J. C.
REPRODUCIBILITY OF TRANSIENT RESPONSE TO CARBON DIOXIDE INHALATION IN MAN A64-80766

READ. J.
PULMONARY BLOOD FLOW DURING EXERCISE IN COMPARISON TO RESPONSE TO HYPOXIA AND AMINOPHYLLINE

A64-80739

PATHOLOGY OF LIGHT AIRCRAFT ACCIDENTS

A64-80177

REAM. H. E.
CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 N64-29206

REBELSKY, F.
ADULT PERCEPTION OF HORIZONTAL BY BOTH SEXES AS COMPARED TO CHILDREN A64-81136

REBER, E. F. VITAMIN AND HORMONE EFFECTS ON HEMORRHAGIC DISEASE IN RATS CAUSED BY IRRADIATED FOOD NA4-33993

RECHT, P.
MOBILE HUMAN DECONTAMINATION UNIT FOR LONGTIME OPERATION WITHOUT REFUELING FUR-407.F N64-10465

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS AMRL-TDR-63-128 N64-16585

- REED, J. H., JR.
 WATERS CUVETTE MONITORING OF HUMAN ARTERIAL OXYGEN
 CONSUMPTION DURING TRANSVERSE ACCELERATION
 NADC-MA-6323
 N64-13831
- REED, L. E. FUTURE HUMAN PERFORMANCE IN COMPUTER PROGRAMMING AMRL-TDR-63-78 N64-11177
- REEVES, T. J.

 CARDIAC DUTPUT AND OXYGEN CONSUMPTION AS RELATED
 TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING
 EXERCISE IN NORMAL AND HEART DISEASED SUBJECT
 A64-80990

HEMODYNAMIC RESPONSES TO EXERCISE IN CLINICALLY NORMAL MIDDLE-AGED MEN AND IN THOSE WITH ANGINA PECTORIS A64-81077

- REGISTER, J. W.
 MONITORING TRACE CONTAMINANTS IN SIMULATED
 MANNED SPACECRAFT
 A64-80538
- REICHE, F.
 ASSIMILATION OF LARGE SUDDENLY INGESTED QUANTITIES
 OF WATER BY PATIENTS
 NASA-TT-F-9114
 N64-33396
- REICHLIN, M.
 ANTIBODIES TO HUMAN A1 HEMOGLOBIN AND THEIR
 REACTION WITH CERTAIN OTHER HEMOGLOBINS
 N64-25491

REID, R.
ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY
FOR EXTENDED SPACE FLIGHTS

- NASA-TN-D-2162 N64-33080

 REILLY, T. J.
 HYDROLYSIS OF AMINO ACYL-BETA-NAPHTHYLAMIDES BY
 PLASMA AMINOPEPTIDASES
- NASA-RP-236 N64-26710

 REINDELL, H.

 DXYGEN DIFFUSION CAPACITY OF HUMAN LUNG AND

 A64-80247
- ANALYSIS OF BLOOD GASES A64-80247
- REINEKE, E. P.
 SPECIFIC GRAVITY OF MEN AND WOMEN MEASURED BY AIR
 DISPLACEMENT AND HELIUM DILUTION PROCEDURES
 A64-80994
- REINER, R. N.
 TOXICITY AND SAFETY HAZARD OF PROPELLANTS FOR
 TITAN II A64-80273
- REINS, D. A.

 EFFECTS OF INSECTICIDE ENDRIN ON RENAL FUNCTION &
 HEMODYNAMICS IN DOGS
 CARI-63-26
 N64-23700
- REITE, M. L.

 ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN
 STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING
 BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH
 ELECTRODES
 NASA-CR-59001
 N64-33041
- REITE, M. R.

 CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE
 DURING DIFFERENT PHASES OF SLEEP EEG COMPUTER
 ANALYSIS
 NASA-CR-55689
 N64-16324
- REITER, H. H.
 NOISE EFFECTS ON DISCRIMINATION REACTION TIME
 A64-80010
- REMMERS, J. E.
 HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN
 VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED
 SUBJECTS
 A64-23260

ALVEOLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND SEA LEVEL A64-80168

REPINA, V. A.
RADIATION MEDICINE - THERAPEUTIC PASTE FOR

TREATMENT OF RADIATION LESIONS

N64-15678

- RESCIONO, A.
 MATHEMATICAL ANALYSIS OF RADIATION INJURY
 INCIDENCE IN CELL CULTURE
 N64-15208
 - ANALYSIS OF DATA FROM BIOCHEMICAL AND PHYSIOLOGICAL TRACER EXPERIMENTS LINEAR SYSTEM N64-19152
 - VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION
 OF GRAPHS N64-22868
- RESNIK, J.

 OXYGEN INHALATION EFFECT ON COLD THRESHOLD IN RELATION TO COLD TOLERANCE

 A64-80107
- REV, J.

 CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION
 AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN
 MAN AND DOG

 A64-81209
- REVIS, V. A.

 PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY RADIATION SICKNESS, CONGENITAL DISEASE, AND
 HETEROHEMOTRANSFUSION REACTIONS
 JPRS-17819
 N64-10723
- REVUTSKYY, E. L.
 EFFECT OF HIGH FREQUENCY ELECTROMAGNETIC RADIATION
 ON BLOOD HISTAMINE CONTENT AND CHOLINESTERASE
 ACTIVITY IN HUMAN BODY
 N64-31540
- REY, J.-P.
 DECLINE IN FLICKER FUSION FREQUENCY AFTER
 INTERMITTENT STIMULATION WITH LIGHT SIGNALS OR
 LETTERS
 A64-80093
- REY, P.

 DECLINE IN FLICKER FUSION FREQUENCY AFTER
 INTERMITTENT STIMULATION WITH LIGHT SIGNALS OR
 LETTERS

 A64-80091
- REYES, R. J.

 CRITICAL DXYGEN TENSION /C.O.T./ OF YEAST SUPPORTS
 EVIDENCE THAT C.O.T. OF CELLS AND TISSUES IS
 RELATED TO THE DEGREE OF OXIDATION CR REDUCTION OF
 CYTOCHROME SYSTEM

 A64-13513

FACTORS AFFECTING CELLULAR OXYGEN CONSUMPTION AT LOW OXYGEN TENSIONS SAM-TDR-63-68 N64-15741

- REYNIER, C.
 ANALYSIS OF AIR EVACUATION FACTORS IN 364 BURN
 CASES IN FRANCE A64-80284
- REYNOLDS, H. H.

 ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR
 IN JAVA MONKEY

 A64-80335
- REYNOLDS, L. W.
 ELECTROMOTIVE FORCE PRODUCTION BY MICROORGANISMS
 IN A CLOSED ECOLOGY FOR MANNED SPACE FLIGHT
 A64-13519

BIDELECTRICITY AS POWER FOR IMPLANTED ELECTRONIC DEVICES IN RAT A64-80537

- RHODES, F.
 PREDICTING DIFFICULTY ENCOUNTERED IN LOCATING
 TARGETS USING AERIAL PHOTOGRAPHY
 AMRL-TDR-64-19
 N64-22566
 - SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY AMRL-TOR-64-40 N64-2687

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR AMRL-TDR-64-45 N64-28604

RHODES, J. M.
CORTICAL-SUBCORTICAL RELATIONSHIPS OF CHIMPANZEE
DURING DIFFERENT PHASES OF SLEEP - EEG COMPUTER
ANALYSIS
NASA-CR-55689
N64-16324

STABILITY OF ELECTROENCEPHALOGRAM TRACINGS IN SLEEP NASA-CR-56908 N64

N64-27395

ELECTRICAL ACTIVITY OF CORTEX AND DEEP BRAIN STRUCTURES OF MACAQUE MONKEY DURING SLEEP USING BIPOLAR SURFACE & IMPLANTED ELECTROENCEPHALOGRAPH ELECTRODES
NSA-CR-59001
N64-33041

RHYNE, A. L.
DIURNAL RHYTHM OF SENSITIVITY TO X-RAY IRRADIATION
IN TWO STRAINS OF MICE
A64-80726

RIABCHENKOV, A. D.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

RIACH, M. D.
AUDITORY RESPONSE TO REPEATED EXPOSURE TO HIGH
INTENSITY SOUND
A64-80668

RICCI, B.
OXYGEN UPTAKE AND BLOOD LACTATE RELATIONSHIP IN
SUBJECTS OF DIFFERENT SOMATOTYPE DURING EXERCISE
A64-80249

RICCI, G.

NEUROPHYSIOLOGICAL ANIMAL STUDIES - BEHAVIOR

MODIFIED BY DRUG INDUCEMENT

AD-601689

N64-32410

RICHARD, P.

RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK

DURING POSITIVE PRESSURE BREATHING

A66-13751

ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY
MUSCLES DURING POSITIVE PRESSURE BREATHING
A64-80050

RICHARD, PH-ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION

A64-80279

RICHARDS, J. M., JR.
INCENTIVE EFFECT ON INTERPERSONAL PERCEPTION PSYCHOLOGY
AD-436402
N64-24234

RICHARDS, N.
TIME ESTIMATES AS MEASURED BY REPRODUCTION RELATED
TO INTERNAL RHYTHMS

A64-80590

RICHARDSON, B. W.
RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE
TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH

A64-80114

RICHEY, F.
THRESHOLD RANGE FOR EYEBURN DAMAGE FOR
EXDATMOSPHERIC NUCLEAR EVENT
A64-18366

RICHMOND, D. R.
EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE
TO AIR BLAST
DASA-1463
N64-21078

RICKARD, H. J.
PROPOSED UNIVERSAL SYMBOL TO WARN AVIATION
PERSONNEL OF ADVERSE DRUG EFFECTS
A64-80843

RIEBEN, P. A.
HYPOXIC EFFECTS ON HEART AND CIRCULATION
A64-80101

RIED, A.

FLUORESCENCE OF CULTURES OF CHLORELLA
PYRENOIDOSA EXPOSED TO VARYING CONCENTRATIONS OF
PLASMOLYTICS AT DIFFERENT STAGES OF CELL
DEVELOPMENT

A64-80806

RIEDEL, R. G.
PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT
MOVEMENT AS FUNCTION OF BACKGROUND STIMULI

A64-80580

RIEDL, O.
LOSS OF CONSCIOUSNESS ASSOCIATED WITH POISONS,
INCLUDING CARBON MONOXIDE, AND VARIOUS DRUGS
A64-80716

RIEKE, M. O.

RECIRCULATION AND LIFESPAN OF SMALL LYMPHOCYTES IN RAT

AAL-TDR-63-17 N64-31829

RIELY, P. E.
FECAL FLORA IN MAN UNDER NORMAL CONDITIONS AND IN
SPACE FLIGHT SIMULATION WITH SPECIAL DIET
A64-80822

RIESZ, R. R.
TRANSMISSION QUALITY DEGRADATION IN TELEPHONE
COMMUNICATIONS BY TIME DELAY AND ECHO SUPPRESSORS
A64-10566

HUMAN INFORMATION TRANSMISSION WITH SEQUENCES OF SOUND PULSES AT DIFFERENT RATES AND USE OF BINARY KEY A64-81188

RIGLER, R.

WATER INTOXICATION & DIURESIS IN ADRENAL
INSUFFICIENCY AND SIGNIFICANCE OF ADRENAL GLAND IN
OSMOREGULATION
NASA-TT-F-9115
N64-33397

RILEY, D. R.

PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDESTABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXEDBASE SIMULATOR
NASA-TN-D-2036 N64-12715

RILEY, R. L.
BLOOD, CARBON DIOXIDE, AND REGULATION OF
RESPIRATION DURING EXERCISE
A64-80455

VENTILATORY RESPONSE OF DOG TO INTERMITTENT INSPIRED CARBON DIOXIDE A64-80993

RIM, Y.

RISK-TAKING BEHAVIOR OF INDIVIDUALS AND GROUPS
RELATED TO CERTAIN PERSONALITY TRAITS

A64-80211

RINGEL, S.

CERTITUDE JUDGEMENT AND ACCURACY OF INFORMATION
ASSIMILATION FROM VISUAL DISPLAYS
USAPRO-TRN-145
N64-29947

INFORMATION ASSIMILATION FROM ALPHA-NUMERIC
DISPLAYS - HUMAN PERCEPTION
AD-601973 N64-30646

RIPS, YA. A.
SAFETY FACTOR AND COMPUTATION FOR ELECTROMAGNETIC
DEVICE OF GIVEN DEPENDABILITY
FTD-TT-63-37/162
N64-23295

RIVERA, J. FALLOUT DATA AND INTERPRETIVE NOTES - BIBLIOGRAPHY HASL-132 N64-12908

FALLOUT - RADIONUCLIDE LEVELS IN MILK, TAP WATER, & UPPER AIR - STRONTIUM-90 FALLOUT & LEVELS IN HUMAN DIET & BONE HASL-135 N64-12909

RADIOACTIVE NUCLIDE LEVELS IN FALLOUT, MILK, FOOD, MATER, AND UPPER-AIR SAMPLES - BIBLIOGRAPHY HASL-142 N64-13329

RIZZO, A.

RESPIRATORY OUTPUT DURING WORK AS AFFECTED BY AMPHETAMINE AND METHAMPHETAMINE COMBINATION

A64-R0721

ROBERT, P. FRONTAL MUCOCELE REVEALED BY BAROTRAUMA
A64-80034

ROBERTS, A.
GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL EXPIRATORY FLOW VOLUME RELATIONSHIP

A64-80068

ROBERTS, J. B.
COMPARISON OF METHODS FOR EVALUATING PROTECTIVE
HEADGEAR A64-81322

ROBERTS, J. F.

MALKING RESPONSES UNDER LUNAR AND LOW GRAVITY
CONDITIONS
AMRL-TDR-63-112

N64-13873

ROBERTS, L. B.

DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS
FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT

A64-13520

DELAYED EFFECTS OF ETHYL ALCOHOL AND HYPOXIA ON PSYCHOMOTOR PERFORMANCE IN DECOMPRESSION CHAMBER A64-80819

ROBERTS, T. L.
EXPERIMENTAL MARTIAN ENVIRONMENT CONSTRUCTED FOR
STUDYING POSSIBLE LIFE ON THE PLANET

A64-10147

GERMINATION AND GROWTH OF BACTERIAL SPORES IN SIMULATED MARTIAN ENVIRONMENT SAM-TDR-63-75 N64-12340

ROBERTSON, J. S.
PHYSIOLOGICAL VALUE OF RADIOISOTOPE - KINETIC
BEHAVIOR OF TRACERS
BNL-857/T-341/
N64-30623

ROBERTSON, W. G.
RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED
ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR
ABSENCE OF NITROGEN
A64-22054

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-80323

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, OXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

A64-8062

TRACHEA OCCLUSION IN RATS BREATHING OXYGEN AND EFFECT OF BAROMETRIC PRESSURE ON LUNG MORPHOLOGY N64-17954

ROBEY, D. H.
SOLAR CORPUSCULAR AND RADIO EMISSION HAZARD TO
MANNED SPACE FLIGHT
A64-81221

ROBINSON, D.
STEREOSCOPIC FACILITATION OF SIGNAL DETECTION
DURING TARGET TRACKING A64-80577

ROBINSON, D. W.
NOISE RATING SCALES FOR EVALUATION OF INFLIGHT
AIRCRAFT NOISE
A64-12996

HUMAN ANNOYANCE MEASUREMENT OF SIMULATED SONIC BOOMS AND AIRCRAFT NOISE A64-16711

ROBINSON, S.

TEMPERATURE REGULATION IN EXERCISE AT DIFFERENT
CLIMATIC CONDITIONS
A64-80083

AGE IN RELATION TO OXYGEN CONSUMPTION AND WORK CAPACITY IN ALTITUDE ACCLIMATIZATION

A64-80518

WORK CAPACITY AND TOLERANCE INFLUENCED BY AGE AND ALTITUDE - PHYSIOLOGY CARI-63-33 N64-29849

ROBION, J.

ELECTRORETINGGRAPHY - USEFULNESS IN SELECTION OF FLYING PERSONNEL A64-80802

ROBY, T. B.
EMPIRICAL STUDY OF HUMAN BELIEFS
N64-2256

ESD-TDR-64-238 N64-22567

ROCK, L. C. X-20 DYNA-SOAR FULL PRESSURE SUIT ASSEMBLY AMRL-TDR-64-27 N64-26905 RODAHL, K.

EFFECT OF PROLONGED INACTIVITY WITH AND WITHOUT
BODY TILT ON WORK CAPACITY, NITROGEN AND CALCIUM
BALANCE, AND RELEVANCE TO WEIGHTLESSNESS

RODDA, M.
SOUNDPROOF RODM PROVIDING MAXIMUM ATTENUATION IN
SPEECH FREQUENCY RANGE A64-80610

TEMPORARY THRESHOLD SHIFT AS FUNCTION OF FREQUENCY OF TEST TONE A64-81178

RODINA, A. G.
LUMINESCENT ANALYSIS OF LACUSTRINE ZOOPLANKTON
N64-12498

RODMAN, A. S.
DECISION-MAKING RELATED TO CERTAIN PERSONALITY
VARIABLES A64-80440

RODWAN, A. S.
DISCRIMINANT FUNCTION AS MODEL FOR PERCEPTION
A64-81299

ROEHRIG, W. C.
PSYCHOMOTOR TASK PERFORMANCE WITH PERFECT RECALL
AFTER FIFTY WEEKS OF NO PRACTICE

ROETLING, P. G.
IMAGE QUALITY CATEGORIZATION OF AERIAL PHOTOGRAPHY
N64-10530

ROGALLO, V. L.

HEARTBEAT MEASUREMENT OF BIRD EMBRYOS WITH
MICROMETEORITE TRANSDUCER AS BALLISTOCARDIOGRAPH
NASA-SP-5007
N64-19015

ROGERS, R. L.
PILOT TRAINING PROGRAM FOR THE HYPERSONIC X-20
AIRCRAFT COVERING GROUND TRAINING, FLIGHT
SIMULATOR AND X-15 EXPERIENCE
A64-11341

ROGERS, T. A.
ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN
SUBARCTIC SURVIVAL SITUATIONS A64-80167

SUBARCTIC SURVIVAL-EFFECT OF SUPPLEMENTS OF FLUID AND SODIUM COMPOUNDS ON WATER LOSS DURING STARVATION A64-80694

PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND WORK-REST CYCLE ON CREW FOR LUNAR MISSION NASA-TN-D-2065 N64-14519

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS
AAL-TDR-63-16 N64-30975

ROGOZKIN, V. D.

CYANIDES AND NITRILES FOR RADIATION THERAPY MEDICAL RADIOLOGY
JPRS-26887
N64-32306

ROHLES, F. H., JR.
ROCKET FUEL EFFECT ON COMPLEX AVOIDANCE BEHAVIOR
IN JAVA MONKEY
A64-80335

ANIMAL STUDY - COMPLEX BEHAVIOR PATTERNS OF CHIMPANZEE NASA-RP-188 N64-22094

ROHRACHER, H.
MICROVIBRATION, CONTINUOUS MUSCLE-ACTIVITY AND
CONSTANCY OF BODY TEMPERATURE A64-80712

ROHTER, F. D.

CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING
PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED
INDIVIOUAL

A64-81243

ROLDAN, E.

SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC
FACTORS IN LOWER BRAIN STEM

A64-80509

ROLLINS, W. F.
LABORATORY STUDIES OF ABILITY OF OBSERVERS TO
PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN

APPROACH AND LANDING HSR-RR-63/7-MK-X

N64-10444

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS REQUIRED IN APPROACH AND LANDING

N64-10445

HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO HORIZONTAL POSITION
HSR-RR-63/2-MK-X
N64-10448

ROMAN, J. A.

SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION
DURING WEIGHTLESSNESS, BY TIMING ROTATION OF
OCULOGYRAL ILLUSION AND THE PERCEPTION OF ROTATION
AFTER STIMULATION

A64-13509

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION A64-80174

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS
SAM-TOR-63-78
N64-12677

ROMANOV, F.
SPACE SUIT - LIFE SUPPORT SYSTEM
NASA-TT-F-8852

N64-22940

ROMANTSEY, E. F.
RADIATION PROTECTION - CHEMOTHERAPY & RADIOBIOLOGY
AEC-TR-6258
N64-33582

ROMANTSEV, YE. F.
DISTRIBUTION AND EXCRETION OF BETA-MERCAPTOPROPYLAMINE, TAGGED WITH SULFUR-35, FROM BODIES OF
MICE N64-31348

ROMORITH, S. S.

DECISION-MAKING UNDER RISK - THEORETICAL MODEL
CONSTRUCTED IN RISK TAKING SITUATION

A64-B1301

RONCO, P. G.
HUMAN FACTORS REFERENCE WORKS INCLUDING BOOKS,
BIBLIOGRAPHIES, REPORTS AND JOURNALS

A64-22078

BIBLIOGRAPHY ON HUMAN ENGINEERING ONR-ACR-86

N64-29676

ROOT, M.
SURVIVAL TIME OF MICE PROTECTED WITH NITROSUBSTITUTED HYDROCARBONS AFTER LETHAL DOSE OF
X-RAYS
N64-13507

ROSE, H. M.
MAN AND MACHINE SYSTEM EVALUATION FOR SCIENTIFIC
EXPLORATION OF SPACE
A64-14990

ROSE, R. E.
CONTINUOUS MODEL MATCHING TECHNIQUES APPLIED TO
PARAMETER DETERMINATION OF TIME VARYING HUMAN
PILOT MODELS
NASA-CR-56374
N64-23993

PARAMETERS OF MATHEMATICAL MODELS OF HUMAN PILOTS NASA-CR-56362 N64-24040

AUTOMATIC COMPUTER METHODS FOR DETERMINING
PARAMETERS OF HUMAN PILOT PERFORMANCE DESCRIBED BY
LINEAR TIME-INVARIANT MODEL
NASA-CR-56373 N64-27385

ROSENBAUM, G.
PERCEPTUAL-MOTOR DEFICITS IN SLEEP DEPRIVATION AND
CHRONIC SCHIZOPHRENIA RELATED TO ENERGY DEFICIT
A64-B0760

ROSENBERG, M. D.
BIOLOGY - DISCUSSION ON CELL-CELL INTERACTIONS,
MEMBRANE STRUCTURE, ENZYMATIC REACTIONS, AND
PHYSICAL CHEMISTRY OF INTERFACES
NASA-CR-53290
N64-17601

ROSENBLITH, W. A. COMMUNICATION BIOPHYSICS - HEARING

N64-17884

ROSENBLUM, E.
BIOLOGICAL EFFECT OF X-RAY IRRADIATION AND
INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION
AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B
CELLS
A64-22813

GRAVITY-INDUCED ULTRASTRUCTURAL ALTERATIONS IN E. COLI B A64-80362

GROWTH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY

A64-80684

RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN BACTERIA - ESCHERICHIA COLI N64-28649

ELECTRON MICROSCOPIC EXAMINATION OF BACTERIAL CELLS SUBJECTED TO STRONG GRAVITATIONAL FIELDS N64-28767

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453

ROSENMAN, R. H.
HEARTBEAT MEASURED BY MODIFIED ELECTROCARDIOGRAPH
AS RELATED TO CARDIOVASCULAR DISEASE
A64-80821

ROSENQUIST, H. S.
SUPPLEMENTARY FEEDBACK IN ROTARY PURSUIT TRACKING
A64-80758

ROSENTHAL, G.
BIOMEDICAL AND HUMAN FACTORS FOR MANNED EARTH
ORBITING STATION
NASA-CR-56021
N64-25950

ROSENTHAL, N. A.
CALCIUM ENRICHED LIQUID DIET FOR ASTRONAUT IN
SPACE
NASA-CR-59003
N64-33044

ROSHAL, J. Y.
WATER AND FOOD SUPPLY TREATMENT OF WASTE AND
NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT
A64-80134

ROSHCHIN, I. V.
EFFECT OF VANADIUM TRIDXIDE DUST ON ORGANISM TOXICOLGY N64-23368

ROSOV, R. J.

RATE-ANALOG DATA PROCESSING METHOD FOR MONITORING
REPETITIVE PHYSIOLOGICAL VARIABLES DURING MANNED
SPACE FLIGHT
AMRL-TDR-64-10
N64-32480

ROSS, H. E.
VISUAL CONSTANCY DURING FORWARD AND BACKWARD
MOVEMENT OF SUBJECTS
A64-80288

WEBER FRACTION EXPLORED AS FUNCTION OF PHYSICAL OR PERCEIVED SENSORY INPUT A64-80472

ROSS, M. D.

LIFE SUPPORT SYSTEMS IN SPACE ENVIRONMENT
EXAMINED, PROPOSING NORMAL SEA-LEVEL ENVIRONMENT
FOR EARLY MANNED SPACE OPERATIONS

A64-11456

ROSS, P. L.
TRACKING ROTARY MOTION AFTEREFFECT WITH DIFFERENT
ILLUMINATIONS OF INSPECTION AND TEST FIELDS
A64-80587

ROSS, S. M.
EVIDENCE FOR TISSUE DXYGEN DEMAND AS MAJOR FACTOR
IN AUTOREGULATION IN DOG
A64-81238

ROSSANIGO, F.
RESPIRATORY VOLUME PER SECOND AND TIFFENEAU INDEX
IN OVER 1000 PILOT CANDIDATES FOR SCREENING
A64-24098

ROSSBERG, G.
AMPLITUDE, FREQUENCY AND DURATION OF NYSTAGMUS IN
RESPONSE TO ANGULAR ACCELERATION RELATED TO
VESTIBULAR REGULATION, AGE AND STIMULUS INTENSITY
A64-80986

ROSSI, A. M. SENSORY DEPRIVATION AND BUTTON-PRESSING FOR TIME-OFF REWARD A64-80574

BUTTON-PRESSING FOR TIME-OFF REWARD DURING SENSORY DEPRIVATION RELATED TO SUBJECTIVE RATING OF WELL-BEING A64-81144

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS DURING SENSORY DEPRIVATION A64-81

ROSSI, G. LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE, TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80981

ROSSI, H. H. RADIOPHYSICS RESEARCH - RADIATION EFFECT ON TISSUE CULTURE CELLS NYC-10451 N64-12123

DOSIMETRY FOR RADIATION DAMAGE STUDIES ANI -6826 N64-25205

CHRONIC EXPOSURE TO INDUSTRIAL TOXINS, SUCH AS CARBON MONOXIDE AND GASOLINE AS RELATED TO ELECTROENCEPHALOGRAM IN MAN A64-80749

ROTH, E. M. SPACE CABIN ATMOSPHERES - PHYSICAL AND

PHYSIOLOGICAL VARIABLES N64-30345 SPACE CABIN ATMOSPHERES - HIGH OXYGEN TENSION IN ANIMALS AND HUMANS, DXYGEN TOXICITY, AND DRUG THERAPY NASA-SP-47 N64-31219

ROTH, H. P. THERMAL CONTROL IN SPACE ENVIRONMENT - DESIGN AND RELIABILITY CONSIDERATIONS NASA-CR-55279 N64-14180

ROTH. N. G. HUMAN WASTE COLLECTION AND STORAGE DURING SPACE AMRL-TDR-64-3 N64-18041

FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN **CELL MEMBRANE** UR-633 N64-10666

PHYSIOLOGICAL AND PHARMACOLOGICAL EFFECTIVENESS OF ADENOSINETRIPHOSPHORIC ACID AND COCARBOXYLASE IN TREATMENT OF PILOTS AFFLICTED WITH FLIGHT FATIGUE 464-24099

ADENOSINE TRIPHOSPHATE AND COCARBOXYLASE TREATMENT OF JET PILOT WITH FLIGHT FATIGUE A64-81069

ROUGIER, G.
EARLY RESPIRATORY AND CIRCULATORY RESPONSE OF ANESTHETIZED DOG TO HYPOTHERMIA A64-80049

ROVELLI. E. MAXIMUM OXYGEN CONSUMPTION OF SUBJECTS FERFORMING THE STEP TEST A64-80251

AMPHETAMINE, CAFFEINE, ASCORBIC ACID, AND RECORDIL AS RELATED TO OXYGEN CONSUMPTION, PERFORMANCE TIME, BLOOD LACTIC ACID, AND HEART RATE OF TRAINED ATHLETES A64-80883

GAMMA RADIATION EXPOSURES RECEIVED BY PERSONNEL AT NUCLEAR RESEARCH FACILITY AECL-2050 N64-32308

INDOCYANINE GREEN EXTRACTION AND ESTIMATED HEPATIC BLOOD FLOW DURING EXERCISE IN UPRIGHT MAN A64-80889

MAXIMAL OXYGEN INTAKE PREDICTION STUDIED WITH

RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND UNTRAINED INDIVIDUALS DURING EXERCISE A64-81017

ROWLANDS, G. F.
RATIO OF PURIFYING CIRCULATION FLOW TO BREATHING
FLOW FOR MAINTAINING ACCEPTABLE CARBON DIOXIDE CONCENTRATION IN SPACE CABIN ATMOSPHERE RAE-TM-ME-273

ROWLETT, 8. H. ENVIRONMENTAL CONTROL FOR SPACECRAFT INCLUDING CRYOGENIC GAS STORAGE, TEMPERATURE CONTROL, ATMOSPHERE CONTROL AND WATER MANAGEMENT

A64-28087

ROZANOVA, N. S.
CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT JPRS-25251 N64-26055

ROZENBLAT, V. V.
RADIOTELEMETRY APPLIED TO STUDIES OF PHYSIOLOGY OF WORK AND SPORTS A64-80353

SECOND SYMPOSIUM ON OPERATION AND USE OF BIOTELEMETRY IN SYERDLOVSK, USSR

A64-81331

RADIOTELEMETRY APPLIED TO SPORT & WORK PHYSIOLOGY N64-30236

ROZENTAL, D. L. BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY JPRS-21894 N64-10517

ROZHDESTVENSKII, V. I.

AUTOMATED SYSTEM FOR STUDYING EFFECT OF MINERAL NUTRIENT SOLUTION COMPOSITION ON PHOTOSYNTHESIS IN HIGHER PLANTS A64-25616

ROZHDESTVENSKIY, V. I.
PHOTOSYNTHESIS OF HIGHER PLANTS AND MINERAL NUTRITION N64-23782

ROZIER, J.

LABYRINTHINE AND EMOTIONAL FACTORS IN THE RESPONSE OF HEART AND RESPIRATORY RATES OF RATS TO ACCELERATION A64-80031

ANALYSIS OF AIRCRAFT ACCIDENTS OF UNDETERMINED ORIGIN A64-80717

AURICULAR ELECTROMYOGRAM - DIAGNOSTIC METHOD FOR HEMODYNAMIC DISORDERS AND CARDIAC DISEASES FTD-TT-64-271/1828384 N64-26092

RUBAKHIN, V. F.
ROLE OF SPATIAL CONCEPTS IN MAP READING AND INTERPRETATION OF AERIAL PHOTOGRAPHS N64-25159

RUBANOVSKAYA, A. A.
TOXICOLOGY OF RADIOACTIVE MATERIALS JPRS-21511 N64-10037

COMPOUNDS USED FOR ELIMINATION OF RADIOACTIVE IRON-59 IN ORGANISM N64-10038

POLYVINYL PYRROLIDINE EFFECTIVENESS IN REDUCING RETENTION OF RADIOISOTOPES IN BODY N64-10039

RUBASHKIN, YA. G.
VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING TEMPERATURE REGULATION FTD-TT-63-774/162 N64-22180

INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR COMPUTER PROCESSING N64-31537

RUBIN, A. B.

RELATIONSHIP BETWEEN PHYSIOLOGICAL STATE AND MEDIUM DURATION OF FLUORESCENCE OF BACTERIOCHLOROPHYLL IN CELLS N64-23434

RUBIN, W.
VESTIBULAR MECHANISM, MOTION SICKNESS, AND DRUG
THERAPY OF DOG AND HUMAN SUBJECTS WITH
PHENOTHIAZINE, THIETHYLPERAZINE

A64-81

A64-81 098

RUBINSTEIN. E. H.
ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER EXERCISE A64-80207

RUBINSTEIN, L.
INTERSENSORY AND INTRASENSORY EFFECT IN SIMPLE REACTION TIME A64-80290

RUBLEVSKIY, V. P.
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER
PURIFICATION AND SANITATION N64-10386

RUBNITSKAYA, A. YU.
SIGNIFICANCE OF PLASMA CELLS IN PRODUCTION OF ANTIBODIES DURING IONIZING RADIATION JPRS-18020 N64-11023

ANTIHYPERTENSIVE DRUG SYNTHESIS

N64-12146

RUBY, W. J.
INFORMATION REQUIREMENTS AND PERFORMANCE CAPABILITES OF HUMAN OPERATOR FOR CONTROLLING AIRCRAFT IN LOW ALTITUDE TERRAIN FOLLOWING FLIGHT CAL-IH-1715-E-5 N64-16489

BIBLIOGRAPHY ON HUMAN PERFORMANCE IN TRACKING

CAL-131

N64-32606

RUDAKOV, I. A.

STRESS EFFECT ON RADIOSENSITIVITY OF RATS AND EFFECTIVENESS OF RADIOPROTECTIVE ACTION OF MERCAMINE JPRS-25130

N64-23255

RUDDER, E.
HEMATOLOGICAL, PHYSIOLOGICAL, AND PSYCHOLOGICAL
RESPONSE FROM MASSIVE DOSES OF MIXED GAMMA AND
NEUTRON IRRADIATION IN GOATS
N64-13 N64-13827

EYE FATIGUE STUDY

JPRS-24592

N64-20483

LEADERSHIP AS RELATED TO PSYCHOPHYSIOLOGICAL ACTIVATION OF GROUP MEMBERS DURING CONFINEMENT A64-81205

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION NAVTRADEVCEN-789-2 N64-26892

ORGANIC CHANGES PRODUCED ON MICROSPORES TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT A64-18575

RUFF, G. E.
HUMAN STRESS MODEL, VIEWING ORGANISM AS SYSTEM
THE STRESS HODEL, VIEWING ORGANISM AS SYSTEM
THE STRESS HODEL WITH ENERGY AND INFORMATION INPUTS AND OUTPUTS, PROVIDING PSYCHOLOGICAL AND PSCHOPHYSIOLOGICAL INDICES OF STRESS

RUFF, R.

PRESSURE DECREASE EFFECTS ON ANIMALS IN STUDIES OF DECOMPRESSION SICKNESS

A64-11431

RUFF, S.
HYPOXIA RESISTANCE TEST FOR EVALUATING PHYSICAL
A64-77 RESERVES OF PILOT A64-27025

TRANSPORT PROCESSES IN ORGANISM - EQUATIONS AND ELECTROHYDRAULIC ANALOGS APPLIED TO GAS EXCHANGE OF NITROGEN 464-80562

HUMAN CENTRIFUGE FOR TESTING EFFICIENCY IMPAIRMENT UNDER ACCELERATION N64-13452 RUMBAUGH, D. M. BAUGH, D. H. LEARNING SET PERFORMANCE, VISION, HEARING, LOCOMOTION, EATING, BODY WEIGHT, AND SURVIVAL OF SQUIRREL MONKEYS, SAIMIRI SCIUREUS, EXPOSED TO RAPID DECOMPRESSION A64-80834

RUMIANTSEY, G. I.
SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND
DOG EXPOSED TO PROLONGED VIBRATION

A64-80725

RUSTIVOV, V. S.
PHYSIOLOGICAL RESPONSE OF NERVOUS SYSTEM

COMPONENTS N64-11946

RUTKOVSKIY, V. YU.
SELF ADJUSTING SYSTEM WITH PATTERN

N64-24700

RYABCHENKO, N. I.
PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND DESOXYRIBONUCLEIC ACID

RYBAKOV, N. I

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF

RYBAKOVA, K. D.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

RYBASHOV, M. V.
CYBERNETICS & AUTOMATIC CONTROL SYSTEMS JPRS-18127

N64-14613

RYDIN, R. A.

FAST NEUTRON SPECTRUM AND DOSIMETRY OF REACTOR MEDICAL_THERAPY FACILITY BEAM

N64-2!

N64-25472

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO IONIZING RADIATIONS
JPRS-19066 N64-11063

SAAKOV, B. A.
BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST BACKGROUND OF RADIATION EFFECT N64-10009

SABBOT, I. M.
STARVATION AND SLEEP DEPRIVATION-EFFECT ON EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND STRESS
RESPONSIVE INDOLE SUBSTANCE A64-8067

SACKS. A. H.

BLOOD PRESSURE MEASUREMENTS IN SIMULATED ARTERIES USING AUSCULTATORY TECHNIQUES

NASA-CR-56024

AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS FOR NEWTONIAN FLUIDS AND BLOOD IN SIMULATED

NASA-CR-56470

N64-22425

RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES N64-10531

PEFFECTS OF HIGH SUSTAINED ACCELERATION ON PILOT PERFORMANCE AND DYNAMIC RESPONSE NASA-TN-D-2067

SADOVSKAYA, G. V.
MATHEMATICAL EXPRESSION OF OSCILLATORY PROPERTIES
OF HUMAN BODY DUE TO ELASTICITY OF TISSUES

SAENGER, E. L. METABOLIC CHANGES IN HUMANS FOLLOWING TOTAL BODY IRRADIATION N64-29941 DASA-1422

HIGH ALTITUDE PHYSIOLOGY IN RELATION TO ANAESTHESIA AND INHALATION THERAPY OF MOUNTAIN A64-80890 INHARITANT

SAFRANKOVA. B. ELECTRIC PROPERTIES OF TISSUES N64-17539

SAFRONOV, YE. I.

RADIATION SICKNESS FROM INTERNAL RADIATION - ORAL
DOSE OF RADIUM BROMIDE POWDER N64-2094

SAGAN, C.
ORBITAL AND UNMANNED LANDING VEHICLES FOR THE BIOLOGICAL EXPLORATION OF MARS
A64-1 A64-10128

COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN A64-14461

PROBABILITY OF EXTRATERRESTRIAL LIFE BASED ON ORIGIN OF TERRESTRIAL LIFE IN SPACE ENVIRONMENTS A64-24944 AND DIRECT EVIDENCE

BIOLOGICAL CONTAMINATION OF MARS BASED ON TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED MARTIAN ENVIRONMENTS A64-24 A64-24978

FORMATION OF ADENOSINE BY ULTRAVIOLET IRRADIATION OF ADENINE AND RIBOSE

SYNTHESIS OF ADENOSINE TRIPHOSPHATE UNDER POSSIBLE PRIMITIVE EARTH CONDITIONS N64-13168

SAGE, A. P., JR.
ELECTRONIC SIMULATION OF BIOLOGICAL CLOCK - ANIMAL STUDY AND STATISTICAL ANALYSIS ASD-TDR-63-136 N64-15592

SAIBENE, F. P.
ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS DIRECTIONS IN MAN A64-80891

COLD STRESS EFFECT ON CEREBRAL FUNCTIONS AND THE RELATIONSHIP OF CEREBRAL FUNCTIONS TO METABOLIC A64-14991

HIGHEST SURVIVAL TIME OF MICE LIVING IN PURE OXYGEN ENVIRONMENT IS 13 DAYS A64 A64-19174

CARDIAC RESPONSES OF GUINEA PIGS AND RABBITS TO HIGH OXYGEN EXPOSURE UNDER PRESSURE AND STRESS A64-23767 LOADINGS

PHYSIOLOGICAL EFFECT OF HIGHLY OXYGENATED ENVIRONMENT AND SURVIVAL IN MOUSE

A64-80193

SAITO, I.
BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM
AND 5 MM AMPLITUDE UPON WATER METABOLISM OF
A64-19 A64-19170

ELECTROCARDIOGRAMS AND PLETHYSMOGRAPHS USED TO STUDY BIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-8015 A64-80155

PHYSIOLOGICAL EFFECTS OF CORIOLIS ACCELERATION A64-80156

SAKATA. K. MEDICAL PROBLEMS OF CIVILIAN AIR TRANSPORT A64-80158

SAKHAROV. D. A. NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607 N64-20233 SAKSONOY, P. P.
RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION
EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON
HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND
CYTOLOGICAL ORGANISMS
A64-13798

RADIATION DOSES AND BIOLOGICAL EXPERIMENTS CONDUCTED DURING FLIGHTS OF VOSTOK III AND A64-23667

BIOLOGICAL EFFECTS OF PHYSICAL CONDITIONS IN SPACE FLIGHT INCLUDING RADIATION, VACUUM, TEMPERATURE, NOISE, VIBRATION, ACCELERATION, WEIGHTLESSNESS, FOOD AND ARTIFICIAL ATMOSPHERE A64-25570

BIOLOGICAL EFFECTS OF COSMIC RADIATION IN SPACE AND PHYSICAL AND PHARMACEUTICO-CHEMICAL PROTECTION A64-25578 METHODS

GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEV ENERGY PROTONS A64-26812

ENDURANCE VARIATIONS IN MICE SUBJECTED TO ACCELERATION, X-RAY AND PROTON IRRADIATION A64-27273

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND A64-80911 PROBLEMS OF PROTECTION

COSMIC RADIATION HAZARD FOR MANNED SPACE FLIGHT -PHARMACOLOGICAL PROTECTION, PHYSICAL & BIOLOGICAL DOSIMETRY

SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS NASA-TT-F-8823 N64-22936

COSMIC RADIATION EFFECT ON ORGANISMS AND DEVELOPMENT OF PROTECTIVE MEASURES N64-23335 FTD-TT-64-33/18284

BIOLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS N64-23736

BIOLOGICAL EFFECT OF COSMIC RADIATION AND RADIATION PROTECTION MEASURES N64-23744

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION N64-27631 EFFECTS DURING SPACE FLIGHTS

SALATSKAYA, M. I.

NUCLEAR EMULSION, SCINTILLATION PHOTODOSIMETER,
AND X-RAY FILM FOR MEASUREMENT OF COSMIC RADIATION
DOSE IN VOSTOK III AND IV SPACECRAFT
NASA-TT-F-8824

N64-22937

SALGANIK, R. I.
INHIBITING ACTION OF DEOXYRIBONUCLEASE ON
ADENOVIRUSES N64-12883

INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON ADENOVIRUSES IN TISSUE CULTURE N6-N64-12884

SALISBURY, P. F. HYPOXIC EFFECTS ON HEART AND CIRCULATION A64-80101

SALTIN, B.
CIRCULATORY RESPONSE TO PROLONGED STRENUOUS LEG **FXERCISE**

STRENUOUS EXERCISE AND WORKING CONDITIONS AND EFFECT ON BLOOD PLASMA AND RED CELL VOLUME

ROLE OF AEROBIC WORK CAPACITY IN DETERMINING PHYSICAL PERFORMANCE OF ORGANISM DURING PHYSICAL A64-81072 EXERCISE

SALTZMAN, H. A. VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE CONCENTRATION, AND BLOOD PRESSURE

A64-80898

SALVAGNIAC. A.
INJURIES SUSTAINED DURING HIGH SPEED EJECTION FROM A64-13749

INJURIES SUSTAINED DURING SURVIVABLE SONIC EJECTION WITH FRENCH E. 96 AND E. 97 SEATS

A64-R0669

SALVINI, M.
TRANSISTORIZED INSTRUMENTATION FOR MEASUREMENTS IN HEALTH PHYSICS N64-12997

SAMONSKI, F. H., JR SPACECRAFT ENVIRONMENTAL SYSTEMS

N64-30729

SAMSONOVA, V. G.
RECIPROCAL EFFECT OF VESTIBULAR AND OCULOMOTOR SYSTEM STIMULUS ON OPTICAL BRAIN CENTER A64-81053

SAMUEL, W. M. S.
NDISE EFFECT ON HUMAN PERFORMANCE ON TASK REQUIRING REGULAR SHIFT OF ATTENTION

A64-81004

SANATANI, S. LONGITUDINAL DEPENDENCE OF DAILY VARIATIONS IN F-2 LAYER CRITICAL FREQUENCY FOR EQUATORIAL REGIONS

SANCETTA, S. M. CORONARY CIRCULATION AND HEART METABOLISM IN MAN EXPOSED TO DRY HOT ENVIRONMENT A64-80465

SANDBERG, A. DDEADS AS AS AS AS ACETYLATION OF SULFANILAMIDE IN FEMALE MOUSE LIVER DURING CHRONIC IRRADIATION N64-13508 N64-13508

IDEMAN, T. F. RADIATION HAZARD AND PROTECTION DURING MANNED SPACE FLIGHT A64-80526

SANDER, D. E. ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS A64-81110

SANDERS, C. A.
EXERCISE IN NORMAL AND DIABETIC SUBJECTS AS RELATED TO GLUCOSE UTILIZATION A64 464-80732

IDERS, E. P.
ACCIDENT INCIDENCE AS RELATED TO JOB LEVEL 464-80612

SANDERS, H. C. INTERRELATION OF ADDED WEIGHT EFFECTS AND SAFETY FACTORS IN MANNED SPACECRAFT SHOWING NEED FOR SUBSYSTEMS REQUIRING MINIMUM CREW

A64-11454

SANDERS, L. W. TETRAETHYLLEAD INTOXICATION DIAGNOSIS

A64-B0196

MATERS CUVETTE MONITORING OF HUMAN ARTERIAL DXYGEN CONSUMPTION DURING TRANSVERSE ACCELERATION NADC-MA-6323 N64-13831

SANTA MARIA, L. J.
PHYSIOLOGICAL EVALUATION OF DIVERS WET SUIT IN
SIMULATED FLIGHT AND EMERGENCY ENVIRONMENTS AS
RELATED TO SKIN AND RECTAL TEMPERATURES A64-80179

SANTI, G. F.
ANALYSIS OF MECHANICS OF LOCOMOTION IN VARIOUS DIRECTIONS IN MAN

SAPEZHINSKIY, I. I.
REACTION OF IRRADIATED PROTEIN RADICALS WITH
RADICAL-REACTION INHIBITORS
N64-N64-12897

WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF

CALCIUM 47 TURNOVER

N64-15216

COUNTER VORTEX OSCILLATORS IN AXIALLY SYMMETRIC **VORTEX TUBE**

SASAKI, E. H. EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BINOCULAR DEPTH PERCEPTION AMRL-TDR-63-134

DONNING AND DOFFING OF SPACE SUIT IN WEIGHTLESS CONDITIONS AMRL-TDR-64-32

SASAKI, H. OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

A64-80256

NYSTAGHUS IN MAN AND RABBIT - STUDY OF SECONDARY PHASE

DIURNAL VARIATION IN BODY TEMPERATURE DURING RAPID AIR TRANSPORTATION ACROSS LONGITUDES

A64-80406

GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS OF ASTRONAUTS

SATO, K.
VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED
A64-80 A64-80255

ONBOARD TRAINING FOR MAINTAINING PILOT PROFICIENCY FOR EXTENDED SPACE FLIGHTS NASA-TN-D-2162

ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS N64-19465

SAUERLAND, E. K.
EFFECTS OF IONIZING RADIATION ON CENTRAL NERVOUS
SYSTEM IN VIVO AND AT CELLULAR LEVEL
NASA-CR-56974 N64-330 N64-33095

SAUNDERS, R. A.
CONTAMINATION ANALYSIS OF NUCLEAR SUBMARINE AND
MERCURY SPACECRAFT ATMOSPHERES
N64-246 N64-24608

IMPLANTING ELECTRIC STIMULATOR UNDER SKIN THROUGH INTERSPACE FOR CARDIOVASCULAR SYSTEM STUDY JPRS-21909

SAVENKO, I. A.
RADIATION DOSES AND BIOLOGICAL EXPERIMENTS
CONDUCTED DURING FLIGHTS OF VOSTOK III AND A64-23667

RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865

MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST STIMULATION AND INHIBITION N64-12515

SAVITSKIY, I. V. PROTEIN METABOLISM IN RABBITS DURING ACUTE RADIATION SICKNESS N64-12779

SAVITSKIY. YU. SPACE SUIT - BREATHING, VENTILATION, PRESSURE AND DECOMPRESSION FTD-TT-64-134/18284 N64-21973

PROTEIN BLOOD SUBSTITUTE BK-8 EFFECT ON COAGULATION DURING BLOOD TRANSFUSION N64-18522

SAWYER, C. H. NONSPECTFIC ACOUSTIC RESPONSES IN RABBIT IN RELATION TO VIGILANCE, MOVEMENT, SLEEP, AND

C-147

AROUSAL

A64-81028

- SAYDAKOVSKIY, YU. YA.
 RADIATION SICKNESS PHARMACOLOGICAL PROTECTION
 JPRS-24817 N64-21729
- SAYERS, B. M.
 INTERCRANIAL PERCEPTION OF LATERAL POSITION OF
 BINAURAL TONE SOUND IMAGES IN PRESENCE OF
 INTERAURAL TIME DELAY AND AMPLITUDE DIFFERENCE
 A64-19517
 - PERCEPTUAL JUDGMENT OF LATERALIZATION OF SOUND IMAGES PRODUCED BY BINAURAL INTERACTION OF CLICKS WITH CLICKS OR CLICK PAIRS A64-21335
- SAYONS, K.
 MOTION PERSPECTIVE PERCEPTION OF VISTA MOTION
 A64-80578
- SAZONOV, N. P.
 SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
 MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
 SPACE FLIGHT
 A64-25580
- SAZONTYEV, B. A.

 DEVELOPMENT OF SPATIAL PERCEPTION AND SPATIAL

 CONCEPTS IN PRESCHOOL CHILDREN N64-25148
- SCAND, A.

 BIOLOGICAL REGENERATION IN CONFINED ENVIRONMENT OF SPACECRAFT, EMPHASIZING CLOSED CIRCUIT SYSTEM FOR REGENERATING RESPIRATORY GASES DURING LONG SPACE JOURNEYS

 A64-11432
- SCARLATA, R. W.
 HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION
 IN RAT AS RELATED TO XANTHINE OXIDASE

 A64-80593
- SCHADE, J. P.
 SELECTIVE VULNERABILITY OF BRAIN IN HYPOXEMIA
 N64-14580
 - EXTRACELLULAR ION MOTION IN CEREBRAL CORTEX
 N64-14590
- SCHAEFER. H. J.
 RADIATION SHIELDING DEPENDENT ON DOSIMETRY OF
 FLARE-PRODUCED AND VAN ALLEN BELT PROTON BEAMS
 A64-24397
 - RADIATION FIELD WITHIN SPACE VEHICLES

A64-80173

DOSIMETRY OF RADIATION FIELDS IN SPACE AND RELATION TO MANNED SPACEFLIGHT A64-80481

HAZARDS OF EXPOSURE TO PROTON RADIATION DURING SPACE FLIGHT, RELATIVE BIOLOGICAL EFFECTIVENESS AND LINEAR ENERGY TRANSFER N64-13186

LINEAR ENERGY TRANSFER SPECTRUM OF PROTON EXPOSURE ON MERCURY MISSION MA-9
NASA-CR-58948 N64-31553

DOSIMETRIC DATA EVALUATION ON SOLID ANGLE BREAKDOWN OF SHIELD THICKNESS FOR APOLLO VEHICLE -RADIATION HAZARD IN SPACE FLIGHT NASA-CR-59266 N64-33284

SCHAEFER, K. E.
HUMAN ADAPTABILITY LIMITATION TO VARIOUS
ATMOSPHERIC ENVIRONMENTS WITH TOXIC TRACE
CONTAMINANTS
A64-24395

SUBMARINE AND SPACECRAFT ATMOSPHERES, EXAMINING HUMAN TOLERANCE LIMITS FOR EXTENDED CONTINUOUS EXPOSURE TO CARBON DIOXIDE AND INCREASED OXYGEN A64-25319

RESPIRATORY ACCLIMATIZATION TO CARBON DIOXIDE
A64-80109

CALCIUM AND PHOSPHORUS METABOLISM IN MAN DURING ACCLIMATIZATION TO CARBON DIOXIDE

A64-80110

ACCLIMATIZATION TO CARBON DIOXIDE AND EFFECT ON ACID-BASE BALANCE, BLOOD, URINE ELECTROLYTES, NITROGEN RETENTION, AND BODY WEIGHT

- GASEOUS REQUIREMENTS FOR MANNED SPACECRAFT ATMOSPHERE A REVIEW A64-80479
- EFFECT OF CARBON DIOXIDE AND ION SHIFTS ON CENTRAL NERVOUS SYSTEM N64-14591
- SCHAFER, G.
 HYPOXIA-INDUCED CHANGES IN ACTIVITY OF
 TRANSAMINASES IN ORGANS AND BLOOD OF RABBITS CARBOHYDRATE METABOLISM A64-80409
 - INTERMEDIARY METABOLISM INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754
 - ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS HYPOXIA N64-15038
 - ACTIVITY CHANGE OF GLUTAMIC-OXALACETIC ACID
 TRANSAMINASE BY ALBUMIN METABOLISM DUE TO OXYGEN
 DEFICIENCY BIOCHEMISTRY N64-15039
 - ENZYME ACTIVATION DETERMINATION OF OXYGEN
 DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME
 FORMATION N64-15043
- SCHAFER, W.

 SPECTRAL RADIATION HUE IN TERMS OF WAVELENGTH FOR
 THREE RETINAL ECCENTRICITIES, USING COLOR NAMING
 METHOD

 A64-28417
- SCHAFER, W. D.
 EYE MOVEMENTS INVESTIGATED IN RELATION TO VISUAL
 ACUITY FOR MOVING OBJECT
 A64-81032
- SCHAFF, G.
 HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED
 CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN
 HOT AND HUMID CLIMATES
 A64-80697
- SCHARFSTEIN, H.

 BOUNDARY LAYER FLOW INTERACTION WITH ARTERIAL
 WALLS AS CLUE TO ONSET OF ATHEROSCLEROSIS
 AIAA PAPER 64-217

 A64-18853
- SCHEGLOVA, A. V.

 BLOOD LEUKOCYTE CHANGES IN PERSONS DUE TO IONIZING RADIATION UNDER VARIOUS OCCUPATIONAL CONDITIONS
 JPRS-22122
 N64-11357
- SCHEIBE, K. E.

 NONDEPRIVATION FACTORS IN PRODUCTION OF SENSORY
 DEPRIVATION EFFECTS— PSYCHOLOGY OF PANIC BUTTON

 A64-80137
- SCHELLER, E. F.

 X-RADIATION EFFECTS ON BLOOD CELL CYTOPLASM,
 NOTING INCREASE IN DOSAGE AND DAMAGE WITH DURATION
 OF EXPOSURE

 A64-11438
- SCHELLING, H. V.
 SPACE PERCEPTION AND RELATION TO TIME BASED ON
 MINKOWSKI THEORY
 A64-80490
- SCHENNETTEN, F.

 COMPARATIVE BALLISTOCARDIOGRAPHIC INVESTIGATIONS

 OF REACTION TO COLORED LIGHT STIMULI IN MAN

 A64-81091
- SCHER, S.
 COLD AND ARIDITY AS CONSTRAINTS ON SURVIVAL OF
 TERRESTRIAL MICROORGANISMS IN SIMULATED MARTIAN
 ENVIRONMENT A64-14461
 - BIOLOGICAL CONTAMINATION OF MARS BASED ON TERRESTRIAL MICROORGANISM SURVIVAL IN SIMULATED MARTIAN ENVIRONMENTS A64-24978
- SCHIAU, S.

 CARDIOVASCULAR SYSTEM OF PILOTS TESTED TO
 DETERMINE ADAPTATION AT GROUND AND LOW PRESSURE
 WITH AND WITHOUT PRESSURE SUIT

 A64-28457

- SCHIEBER, J.

 HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED
 CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN
 HOT AND HUMID CLIMATES

 A64-80697
- SCHILDER, D. P.
 GAS DENSITY AND VISCOSITY EFFECTS ON MAXIMAL
 EXPIRATORY FLOW VOLUME RELATIONSHIP
 A64-ROOGR
- SCHIRMER, H. K. A.
 HYPOTHERMIC EFFECT ON GLYCOLYSIS AND DXYGEN
 CONSUMPTION IN DOG KIDNEY
 A64-80569
- SCHLEGEL. H. G.
 AIR PURIFICATION IN CLOSED ECOLOGICAL SYSTEM BY
 BACTERIA WHICH UTILIZES MOLECULAR HYDROGEN FROM
 ELECTROLYSIS OF WATER IN REDUCING CARBON DIOXIDE
 CONTENT
 A64-18540

BIOREGENERATING SYSTEMS - USE OF HYDROGEN-OXIDIZING BACTERIA, CLOSTRIDIUM AND HYDROGENOMONAS IN REGENERATION OF EXPIRED AIR A64-80468

- SCHLESINGER, I. M.
 RESPONSE UNCERTAINTY AS RELATED TO OVERALL
 REACTION TIME A64-80812
- SCHLOSSER, D.

 REGULATION OF RESPIRATION AND CIRCULATION THROUGH
 OXYGEN TENSION IN MIXED VENOUS BLOOD

 A64-80355
- SCHMALE, H.

 ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING PHYSICAL WORK INVESTIGATION OF CARDICVASCULAR AND METABOLIC CORRELATES IN MAN
- SCHMIDT-KOENIG, K.
 SUN COMPASS ORIENTATION IN PIGEONS AFTER
 TRANSLOCATION NORTH OF ARCTIC CIRCLE

A64-80907

- SCHMIDT, E. A.
 HUMAN BEHAVIOR DISCRIMINATION OF PRIMARY AND
 SECONDARY VISUAL VIGILANCE TASKS
 AD-437334
 N64-20318
- SCHMIDT, N.-E.

 MANIFEST ANXIETY RELATED TO PHENOMENON OF
 NARROWING VISUAL FIELD WITH INCREASE IN DISTANCE
 A64-81196
- SCHMIDT, I.

 SOLAR RADIATION EFFECTS ON EYE, SOLAR IRRADIANCE
 COMPUTATIONS UP TO 100 KM AND EYE PROTECTION FOR
 AIR TRAVELERS
 A64-14994

ENVIRONMENTAL EFFECTS ON HUMAN VISUAL OBSERVATION OF SATELLITE FROM ANOTHER SATELLITE WHILE IN ORBITAL FLIGHT A64-18321

PILOT AND ASTRONAUT OBSERVATIONS COMPARED TO THEORIES CONCERNING MOON ILLUSION IN SPACE A64-2070

VISUAL PROBLEMS FACING ASTRONAUTS IN ORBITAL FLIGHT A64-80462

MOON ILLUSION DURING MANNED SPACE FLIGHT
A64-80507

SATELLITE TO SATELLITE VISIBILITY OF CREWMEN -HUMAN PERFORMANCE N64-30721

SCHMIDT, J. P.
INTUBATION OF ABNORMAL AORTA OF GROUND SQUIRREL
TECH. NOTE-63-2 N64-19557

INFLUENCE OF HIBERNATION ON COXSACKIE VIRUS
INFECTIONS IN ALASKAN GROUND SQUIRREL
AAL-TDR-63-25 N64-31935

SCHMIDT, N.
VISUAL PROBLEMS OF LUMINESENCE, MOTION, AND DESIGN
IN OBSERVING SATELLITE FROM ANOTHER SATELLITE
A64-81162

- SCHMIDT, R. S.

 RECORDING OF EFFERENT IMPULSE OF FROG NERVOUS

 SYSTEM

 SAM-TDR-63-66

 N64-13869
- SCHMIDTKE, H.
 ORIGIN OF SUBJECTIVE EXPERIENCE OF STRESS DURING
 PHYSICAL WORK INVESTIGATION OF CARDIOVASCULAR
 AND METABOLIC CORRELATES IN MAN
- SCHMIDTLEIN, H.
 HUMAN PILOT CONTROL OF AIRCRAFT BIBLIOGRAPHY
 N64-10147
- SCHMITT, O. H.

 MATHEMATICS OF BIONICS, COMPUTER HARDWARE IN
 MEDICAL ELECTRONICS, AND IN BIOENGINEERING
 N64-18827
- SCHMUCKLER, H. W.
 CHEMICAL ANALYSIS AND COMPOSITION OF MITOCHROME
 AND CYTOCHROME OXIDASE FROM RAT LIVER MITOCHONDRIA
 NADC-MA-6319
 N64-12255
- SCHNEIDER, M.
 FOOT PEDAL DESIGN AFFECTING OPERATION TIME
 A64-80092
 - CRITICAL BLOOD PRESSURE IN CEREBRAL CIRCULATION N64-14581
- SCHNEIDER, W.
 FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER
 GRADED PHYSICAL STRESS A64-81327
- SCHNIEDEN, H.

 ATROPINE, CATECHOLAMINE, AND EXPERIMENTAL DRUGS AS RELATED TO REFLEX VASODILATATION PRODUCED BY RADIANT HEATING OF TRUNK

 A64-80998
- SCHOEN, R. M.
 PHYSICAL AND BIOLOGICAL ACTIONS OF SMALL AIR IONS
 INCLUDING DEVICES FOR MEASURING CONCENTRATION AND
 MOBILITY
 A64-2416
- SCHOENE, H.

 SPACE ORIENTATION IN HUMAN BEINGS WITH REGARD TO
 GRAVITY RECEPTOR PERFORMANCE UNDER DIFFERENT FIELD
 STRENGTHS

 A64-22818
- SCHOENFELD, D.
 PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
 POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
 ARL-TDR-63-28 N64-13854
- SCHOLANDER, T.
 TEMPERATURE EFFECT ON MEASURES OF ELECTRODERMAL
 ACTIVITY AND THEIR INTERRELATIONSHIP
 A64-80220
- SCHOLZ, W. LAMINAR LESIONS IN CEREBELLAR CORTEX AND HYPOXEMIA EFFECT ON CEREBRAL NUCLEI N64-14601
- SCHONE, H.
 ROLE OF GRAVITY AND BODY POSITION IN SPATIAL
 ORIENTATION
 A64-80691
- SCHOOLEY, J. C.
 PROPERTIES OF SERUM FROM RABBITS IMMUNIZED WITH
 HUMAN URINARY ERYTHROPOTETIN HUMAN PHYSIOLOGY
 N64-22854
- SCHREINER, H. R.
 PHYSIOLOGICAL EFFECTS OF ARGON, HELIUM, AND RARE
 GASES ON CELLULAR SYSTEMS
 AD-600641
 N64-25925
- SCHRODER, J.
 CIRCULATION TIME AS FUNCTION OF AGE, SEX, AND
 HEIGHT A64-80797
- SCHROYER, K.

 MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION
 TIME BY VIBROCARDIOGRAM OF ANESTHETIZED DOG
 N64-21346
 - PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM -

TRANSFER OF HEART CONTRACTILE ENERGY THROUGH LUNG-THORAX SYSTEM N64-22412

SCHRZELLA. R. VESTIBULAR FUNCTION OF MAN, GUINEA PIG, RABBIT. AND CAT AS AFFECTED BY CHLORPROMAZINE

A64-81208

VESTIBULAR CORIOLIS EFFECT DURING ADDITIONAL LINEAR ACCELERATION A64-80250

SCHULMAN, M. SEAT ESCAPE SYSTEMS FOR JET AIRCRAFT USING SOLID FUEL ROCKET MOTOR IN COMBINATION WITH STANDARD CATAPULT A64-80838

CARBON MONOXIDE POISONING EFFECTS ON CENTRAL NERVOUS SYSTEM AS RELATED TO CARBOXYHEMOGLOBIN 464-12987

SEALED ENVIRONMENTS IN RELATION TO HEALTH AND DISEASE A64-80265

SCHULTZ, E. J.
URINARY CATECHOLAMINE OUTPUT CHANGES ASSOCIATED WITH MOTION SICKNESS DUE TO TURBULENT FLIGHT SAM-TDR-63-9 N64-13931

SCHULTZ, N. BIOLOGICAL EFFECT ON THE ORGANISM FROM SOLAR RADIATION A64-80931

EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND AD-432086 N64-21840

EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE THREATS - BAYES THEOREM AMRL-TDR-64-51 N64-33907

NONTHERMAL EFFECT OF ALTERNATING ELECTRICAL FIELDS ON BIOLOGICAL STRUCTURES AD-600263 N64-28812

SCHWARTS, W. B.
CEREBROSPINAL FLUID AND PLASMA BICARBONATE AND
ELECTROLYTES IN DOG IN ACUTE AND PROLONGED **HYPERCAPNIA**

SCHWARTZ. RELATIONSHIPS BETWEEN PSYCHOPHYSICAL JUDGMENTS OF IMAGE QUALITY AND PHYSICAL IMAGE VARIABLES

SCHWEIGER, E. INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN RHYTHM OF OXYGEN BALANCE IN CYTOPLASM OF GREEN ALGA, ACETABULARIA A64-81320

INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN RHYTHM OF OXYGEN BALANCE IN CYTOPLASM OF GREEN ALGA, ACETABULARIA A64-81320

SCHWEIKHARD, W. G.
SPACECRAFT PILOT SELECTION AND TRAINING FOR MERCURY, GEMINI, X-15 AND X-20 PROGRAMS, NOTING ASTRONAUT TRAINING AND AEROSPACE RESEARCH PILOT SCHOOL A64-11340

SCHWICHTENBERG, A. H.
HUMAN STRESSES IN SPACE FLIGHT OPERATIONS AND

METHODS OF IMPROVING TOLERANCE IN MAN

HEADWARD TO FOOTWARD DECELERATION TOLERANCE OF X-15 IMPACT AS COMPARED TO FOOTWARD TO HEADWARD IMPACTS

MACHINE RECORD CARDS FOR RECORDING MEDICAL HISTORY - DEVELOPMENT & USE IN ASTRONAUT SELECTION N64-13466

SCIORRA, A. F. DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES NASA-CR-53302

SCOTT, J. B. BLOOD FLOW RATE, VENOUS PRESSURE, AND GXYGEN EFFECT ON BLOOD FLOW RESISTANCE IN DOG FORELIMB A64-81237

WITH APPLICATIONS TO PHYSICAL EXERCISE A64-80596

SCRIMSHAW, N. S.
WATER AND FOOD SUPPLY TREATMENT OF WASTE AND NUTRITIONAL REQUIREMENTS IN MANNED SPACE FLIGHT A64-80134

SCUTT, J. E.
INHIBITION OF GROWTH OF CHLORELLA VULGARIS BY ORGANIC PEROXIDES A64-80901

SEABAUGH. V. M. PENTABORANE TOXICITY IN MICE, RATS, AND DOGS DURING SHORT EXPOSURE INHALATION A64-80204

SEALE, L. M. LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

BIOCHEMISTRY - GENETIC MARKING OF PROPHAGES IN BACILLUS SUBTILIS N64-23278

SEARS. C. W. MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS

UNDER ZERO AND LUNAR GRAVITY CONDITIONS A64-80837

EMERGENCY LIFE SUSTAINING SYSTEM FOR SPACECRAFT

EMERGENCY LIFE SUSTAINING SYSTEM FOR USE DURING FAILURE OF NORMAL PRESSURIZATION IN SPACECRAFT AMRL-TDR-63-82

SEEMAN, J. S. EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE NASA-TM-X-53011 N64-20591

PREPARATION & PROPERTIES OF UREASE ENZYME IN SOIL

FORMS OF SOIL BIOTIN N64-15803

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING EXERCISE A64-80352

SEGRE, G. VARIABLE ADJACENCY MATRIX AND TRANSFER FUNCTION OF GRAPHS N64-22868

SEIBEL, R. INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN MEMORY NAVTRADEVCEN-1303-2 N64-29871

SEIPEL, J. H.
NEUROLOGICAL ABNORMALITIES IN CIVILIAN PILOTS AND AIR TRAFFIC PERSONNEL REQUIRING MEDICAL CERTIFICATION A64-80836

SEITLE, R. A. MAN-MACHINE INTERACTION MODELS USED TO SHORTEN PRELIMINARY SYSTEM DESIGN A64-24845

THEORETICAL IMPLICATIONS OF RELATIVITY ON AGING -

PHYSIOLOGICAL PROCESSES IN SPACE TRAVELERS
A64-80350

SELDEEN, B.
EFFECT OF PROLONGED ACCELERATION ON EATING,
BODY WEIGHT AND RESPONSE TIME OF RAT

A64-80844

SELF. H. C.
SIMULATED AIRCRAFT SPEED EFFECT ON DETECTING AND IDENTIFYING TARGETS FROM SIDE-LOOKING RADAR IMAGERY
AMRL-TDR-64-40
N64-2683

EFFECT OF DIRECTION AND SPEED OF IMAGE MOTION ON TARGET RECOGNITION BY OBSERVER OF SIDE-LOOKING RADAR
ANRL-TDR-64-45
N64-28604

SELIVERSTOVA, L. A.

RECOVERY OF REPRODUCTION CAPACITY OF X RAY
IRRADIATED YEAST CELLS
JPRS-21619
N64-10118

SELLS, S. B.

PREDICTION OF PERFORMANCE OF AIR FORCE PERSONNEL
REFERRED FOR PSYCHIATRIC EVALUATION
PRL-TDR-63-23

N64-1878

PREDICTION OF ADAPTABILITY OF BASIC AIRMEN
REFERRED FOR MENTAL HYGIENE CLINIC EVALUATION
AD-436571
N64-18906

SELVESTER, R.

DETERMINING HEART PARAMETERS ON BASIS OF SKIN
POTENTIAL MEASUREMENTS - MATHEMATICAL MODEL
RELATING VENTRICULAR DIPO'LES TO SURFACE POTENTIALS
RM-4138-NIH
N64-26475

SEM-JACOBSEN, C. W.
DATA REDUCTION OF BIOLOGICAL INFORMATION DURING
PROLONGED FLIGHT MISSIONS, NOTING CASE OF
ELECTROENCEPHALOGRAMS
A64-25556

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

SEM-JACOBSEN, I. E.
DATA REDUCTION OF BIOLOGICAL INFORMATION DURING
PROLONGED FLIGHT MISSIONS, NOTING CASE OF
ELECTROENCEPHALOGRAMS
A64-25556

FLIGHT MISSION DATA RECORDING IN BINARY CODE ON MAGNETIC TAPE OR PUNCHED PAPER TAPE

N64-30536

SEMENENKO, V. YE.
EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON
PRESERVATION OF VIABILITY OF CHORELLA CULTURE
N64-11678

SEMENDY, I. V.
HYPOXIC EFFECT ON NUMBER AND FRAGILITY OF
ERYTHROCYTES IN YOUNG AND MATURE DOG

A64-81250

SEMENOY, IU. M.
ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS
ENVIRONMENT TO OBTAIN OXYGEN, USING WASTE PRODUCTS
A64-25607

SEMENOV, YU. M.

OBTAINING DXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

SEMENYUK, E. O.

ORIGIN OF POSITIVE COMPONENT OF EVOKED POTENTIAL

OF TECTUM OPTICUM OF TOAD - ELECTROPHYSIOLOGY

N64-31542

SEMEYKO, YE. I.
CONDITIONED RESPIRATORY REFLEX AND RESPONSE TO CARBON DIOXIDE UNDER INFLUENCE OF CHLORPROMAZINE FTD-TT-64-69/18284 N64-33102

SENDERS, J. W.
RANDOM SAMPLING BEHAVIOR OF HUMAN MONITORS AND

CONTROLLERS OF MULTIPLE INSTRUMENT DISPLAY SYSTEMS
A64-24126

HUMAN PERFORMANCE AS MONITOR AND CONTROLLER OF MULTIDEGREE-OF-FREEDOM SYSTEMS N64-18796

SENDROY, J., JR.
THIRST PREVENTION AND WATER RECOVERY FROM SEA
MATER AND FROM URINE BY FREEZE-DRYING DURING
PROLONGED SPACE FLIGHT
A64-80550

WATER RECOVERY FROM SEA WATER AND FROM HUMAN URINE REPT.-3 N64-30696

SENELAR, R.

REPEATED POSITIVE ACCELERATION OF LOW INTENSITY &
LONG DURATION — ANATOMICAL STUDY OF DOG KIDNEY

N64-13462

SEMGER, H.

TEMPERATURE MAINTENANCE, CARBON DIOXIDE

AVAILABILITY, NUTRIENT SUPPLY, AND CONSISTENT

LIGHTING DILUTION DEVICE FOR CONTINUOUS CHLORELLA

CULTURE

A64-81050

SENTER, R. J.
EVALUATION OF BRANCHING AND MOTIVATIONAL PHRASES IN SCRAMBLED BOOKS
AMRL-TDR-63-122
N64-15518

HUMAN PERFORMANCE - TROUBLESHOOTING STRATEGY AMRL-MEMO-P-54 N64-26852

SEPETJIAN, J.
CORONARY DISTURBANCES AND FLYING AS RELATED TO
PILOT SELECTION EXAMINATIONS A64-80769

SEREBRYAKOVA, Z. N.
ORGANIZATION OF NEUROPSYCHIATRIC AIDS IN CITIES
JPRS-23446 N64-15914

SEREDENKO, M. M.
AGE EFFECT ON ADAPTATION AND PHYSIOLOGICAL
RESPONSE TO ACUTE HYPOXIA IN RAT AND DOG
A64-81251

SEREDINSKIY, A. V.
VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL
ENCODING - CYBERNETICS N64-12523

SERGEANT, R. L.

EFFECT OF PROLONGED BREATHING OF HELIUM-OXYGEN ON
SPEECH INTELLIGIBILITY
AD-602545

N64-28298

SERGEEVA, N. A.

DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD VOSTOK V AND VOSTOK VI SPACESHIPS

A64-18573

SERGEYEV, A. A.
HISTORY OF AVIATION MEDICINE
JPRS-19125
N64-11219

SERGEYEV, G. Y.
ELECTRIC SLEEP - NEUROTROPIC TREATMENT OF
ESSENTIAL HYPERTENSION N64-10684

SERGEYEVA, N. A.

MEASUREMENT OF RADIATION DOSES RECEIVED BY
COSMONAUTS IN VOSTOK III AND VOSTOK IV
SPACECRAFT FLIGHTS N64-21642

SERIO, M.
UTILIZATION OF INTRAVENOUS INJECTION OF 1131 IN
RADIOGRAPHIC STUDY OF EFFECT OF AGING ON
VENTRICULAR STROKE AND PULMONARY CIRCULATION
A64-81071

SEROY, A.

MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT
AND EFFECT OF WEIGHTLESSNESS ON HUMANS
N64-23639

SEROVA, L. V.
PROPHYLACTIC ACTION OF AEROIONIZATION IN ACUTE
RADIATION SICKNESS OF WHITE RATS
N64-32781

SERRA, C.
CHANGES IN URINARY EXCRETION OF 17-KETOSTEROIDS
AND ELECTROLYTE LEVEL IN BLOOD INDUCED BY
INTERNITIENT AUDITORY STIMULATION

A64-80722

SERRAND, L. J.
GROWTH, MAZE LEARNING, AND ORGAN WEIGHT OF RAT AS
AFFECTED BY CONFINEMENT AND EXERCISE

A64-80067

SERSEN, E. A.
STIMULATION DUE TO SELF-INDUCED HOVEMENT IN
PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727

DISARRANGED EYE-HAND COORDINATION

N64-22061

SERVIT, Z.

ELECTRONARCOSIS OF LOWER VERTEBRATES AND
COMBINATION WITH DRUG NARCOSIS IN MAMMALS
FTD-TT-63-931/182
N64-24064

SERYAPIN, A. 0.

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL &
BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND
SOVIET SATELLITE
N64-11687

AIR REGENERATION SYSTEM FOR SEALED CAPSULE
OCCUPIED BY ANIMALS DURING SPACE FLIGHTS
N64-11691

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-11696

SETH, H. S.
THERMAL AND NONTHERMAL HAZARDS TO MICROWAVE
PERSONNEL INCLUDING THOSE IN TECHNOLOGY

A64-22814

MICROWAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION A64-25543

EYE, TESTIS, AND CARDIOVASCULAR AND NERVOUS SYSTEMS OF ANIMALS AS AFFECTED BY MICROMAVE RADIATION A64-80685

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-80830

SETLIFF, J. A.
ENERGY COST, FLUID AND ELECTROLYTE BALANCE IN
SUBARCTIC SURVIVAL SITUATIONS A64-80167

SUBARCTIC SURVIVAL-EFFECT OF SUPPLEMENTS OF FLUID AND SODIUM COMPOUNDS ON WATER LOSS DURING STARVATION A64-80694

PHYSIOLOGICAL CHANGES ACCOMPANYING STARVATION IN ARCTIC AND SUBARCTIC ENVIRONMENTS AAL-TDR-63-16 N64-3097

SEVANKAEV, A. V.

GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER
SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND
DDGS

A64-25603

SEVANKAYEV, A. V.
SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER
UNDER INFLUENCE OF IONIZING RADIATION
N64-23769

SEVELIUS, G.
PHYSIOLOGICAL RESPONSES OF NORMAL AND PATHOLOGICAL
SUBJECTS TO MODIFIED WORK CAPACITY TEST

A64-80387

SEVERIN, S. L.
PHOTOSTRESS, FLASH BLINDNESS AND RECOVERY FROM
DAZZLE A64-12989

PHOTOSTRESS AND FLASH BLINDNESS USED TO DETERMINE WHETHER THERE IS A CONSISTENT RELATIONSHIP BETMEEN VISUAL DISCRIMINATION RECOVERY AND INTENSITY OF DAZZLING FLASH A64-13511

SEVERIN, S. YE.

ROLE OF ANAEROBIC & OXIDATIVE PHOSPHORYLATION
PROCESSES IN PROTECTIVE FUNCTIONS OF ORGANISMS
N64-17172

SEVERINGHAUS, J. W.
CEREBROSPINAL FLUID EFFECTS ON HIGH ALTITUDE
RESPIRATORY ACCLIMATIZATION OF MAN

464-23261

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH

SEVERS, R. J.
VISUAL FIELD LOSS PATTERN DURING POSITIVE
ACCELERATION DEMONSTRATED AND REFINED WITH
PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER
A66-27604

SEVERSKII, A.
MEDICAL PROBLEMS OF FLYING PERSONNEL

A64-80594

N64-11682

SEXTON, R.

RESCUE AND ESCAPE SYSTEMS FROM TALL STRUCTURES
NASA-CR-53344
N64-17790

SEXTON, R. E.
SPACE VEHICLE THERMAL & ATMOSPHERIC CONTROL
AD-428573 N64-14470

SHABADASH, A. L.
BLOOD GLYCOGEN METABOLISM IN MAMMALS AFTER
IONIZING RADIATION
JPRS-18479 N64-10769

SHABANOVA, I.

RELATION BETWEEN CHEMICAL STRUCTURE OF SUBSTANCE
AND BIOLOGICAL EFFECT
FTD-TT-64-581/184

N64-26736

SHADRINTSEV, I. S.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

SHAFER, H. J.
TACTILE COMMUNICATION AND CONTROL SYSTEMS FOR MANMACHINE COMPATIBILITY IN HIGH SPEED AIRCRAFT
AIAA PAPER 64-421
A64-20783

SHAFER, J. H.
NUMBER OF CODE SIGNALS AFFECT LEARNING TIME FOR
TACTILE COMMUNICATION A64-16199

SHAFFER, H. L.
INFORMATION RATE NECESSARY FOR ADEQUATE
TRANSMISSION OF PITCH SIGNAL FROM SPOKEN MESSAGE
A64-21731

SHAHIN, M. M.

ARGON METASTABLE ATOMS IN IONIZATION OF ORGANIC

MOLECULES

N64-13139

CARBON DIOXIDE CONCENTRATION AS RELATED TO
PHOTOSYNTHESIS IN MASS CULTURE OF ALGAE
A64-80608

SHAMAKHMUDOV, A.

ACTH INJECTION OF RATS IRRADIATED WITH X-RAYS, AND ORGAN PERMEABILITY CHANGES N64-15681

SHAMINA, Z. B.
INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &
DEVELOPMENT IN ACTINOMYCETES AND PLANTS

SHANKEL, D. M.
MUTATIONAL SYNERGISM BETWEEN ULTRAVIOLET RADIATION
AND PURINES IN ESCHERICHIA COLI

SHANNON, I. L.

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED
FOR DENTAL SURGERY
SAM-TDR-63-11

N64-12366

MICROORGANISMS IN HUMAN GINGIVAL TISSUES SAM-TDR-63-88 N64-13865

IDENTIFICATION AND SIGNIFICANCE OF PAROTID FLUID CORTICOSTEROIDS SAM-TOR-63-86 N64-15742

SIMULATION WITH CARBON PARTICLES OF BACTERIAL INVASION OF HUMAN GINGIVAL TISSUES - PHYSIOLOGY N64-17963 SAM-TDR-64-4

CORTICOSTEROIDS IN HUMAN PAROTID FLUID FOLLOWING ORAL HYDROCORTISONE DOSAGE SAM-TDR-63-12

PAROTID FLUID AND SERUM RESPONSES TO INTRAMUSCULAR INJECTION OF ADRENOCORTICOTROPIN /ACTH/ IN YOUNG ADULT MALES SAM-TDR-64-37

HEMATOLOGIC CHANGES FOLLOWING TOOTH EXTRACTION

PAROTID FLUID CORTICOSTEROID LEVELS IN ADULT MALES ONE AND TWO HOURS AFTER RECEIVING GRADED INTRAMUSCULAR DOSES OF ADRENOCORTICOTROPIN SAM-TOR-64-50

CORTISONE ORAL GLUCOSE TESTS OF RELATIONSHIP OF TOOTH CAVITY INCIDENCE AND GLUCOSE LEVEL IN YOUNG ADULT MALE HUMANS SAM-TDR-64-57 N64-32981

ROCKET ASSISTED EJECTION ADVANTAGE OVER BALLISTIC EJECTION, CONSIDERING SYSTEM MALFUNCTION, PILOT INJURIES, ACCIDENT CAUSES AND ALTITUDE

SURFACE WIND VELOCITIES CORRELATED WITH PARACHUTE LANDING INJURIES A64-27602

IMPROVEMENT OF ROCKET EJECTION SYSTEM LIFE-SAVING CAPABILITY THROUGH SYSTEM REFINEMENT AND AIRCREW TRAINING A64-80946

SHAO.

STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION 464-28414

SHAPIRO, B. J.

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY
HYPERVENTILATED DOG AS RELATED TO PH AND CARBON
AAA-RIO DIOXIDE TENSION A64-81009

SOCIAL ISOLATION AND SOCIAL INTERACTION EFFECT ON BEHAVIOR, HEART RATE, AND GALVANIC SKIN RESPONSE A64-80677

SHAPIRO, I. M.
CELL DAMAGE IN RADIATION REACTION OF ANIMAL ORGANISM N64-16906

SHAPIRO, YU. L.
LEUKOCYTE AND BONE MARROW PROLIFERATION CHANGES
A64-80 A64-80650

SHAPOSHNIKOVA, H. G.
CHLORELLA PYRENDIDOSA PROTEIN ANALYSIS FOR
ESSENTIAL AMINO ACIDS - SPACE BIOLOGY N64-11697

SHAROBAIKO, V. I.
RADIATION EFFECT ON ORGANISH OF MAMMALS, INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

EFFECTS OF MASSIVE DOSES OF IONIZING RADIATION UPON CONDITIONED AVOIDANCE BEHAVIOR OF PRIMATES DASA-NWER-03-008 N64-15993

THORACIC AND ABDOMINAL MASS LOADING EFFECT ON VOLUME PRESSURE CURVES IN CONSCIOUS AND ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-80997

SHARPLEY, J. M. ELEMENTARY HYDROCARBON MICROBIOLOGY ASD-TDR-63-752

N64-21501

SHASHKOV. V. S.
MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660
AND 120 MEV ENERGY PROTONS
A64-26812

INFLUENCE OF SPACE FLIGHT FACTORS ON SEROTONIN LEVEL IN BLOOD OF ANIMALS N64-11685

SHAVRIN, P. I.
RADIATION DOSE ON VOSTOK V AND VOSTOK VI SPACECRAFT N64-23865

SHAW, D. B.
PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN
BREATHING LOW CONCENTRATIONS OF DZONE

A64-80742

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED DXYGEN PARTIAL PRESSURE AND NITROGEN A64-22053

INCREASED OXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN SIMULATOR A64-80627

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SHITS SAM-TDR-63-59 N64-12855

PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED OXYGEN TENSION SAM-TDR-63-64 N64-16640

DETERMINATION OF BLOOD FLOW THROUGH INTACT VESSELS UNDER CONDITIONS OF GRAVITATIONAL STRESS AND IN EXTRATERRESTRIAL SPACE CAPSULES NASA-CR-53302

SHCHERBAN, E. I.
FOUR EXPERIMENTAL STUDIES ON RADIATION SICKNESS THERAPY FOR ANIMALS JPRS-23678

TOXICITY OF CONTAMINANTS IN NUCLEAR SUBMARINES

SHEFNER, A. M.
CHEMICAL COMPOSITION AND DIGESTIBILITY OF ALGAL IITRI-L6002-4

VISUAL SIGNALS FOR QUANTITATIVE EXAMINATION OF ATTENTION, DISCRIMINATION, PERCEPTION - DATA PROCESSING

DECREASE IN VISUAL FACULTY UNDER FATIGUE CONDITION

SHELANSKI, M. V. DERMATOLOGICAL STUDIES AND CUTANEOUS TOXICITY OF CHEMICAL COMPOUNDS AMRL-TDR-64-13 N64-18932

SHELDON, J. H.
AGING EFFECT ON POSTURE CONTROL

A64-80185

SHELDON, J. M. DISPLAY UPDATE RATE EFFECTS ON IMMEDIATE MEMORY OF HUMAN MONITOR IN CONTROL SYSTEM

SHEMYAKIN, F. N. PERCEPTION AND REPRESENTATION OF SHORTEST DISTANCE ON PLANE AND ON SPHERE

SHEPELEY, YE. YA.
TOXIC GAS EMISSION BY CHLORELLA ALGAE RESULTING FROM PHOTOSYNTHESIS DURING CULTIVATION PROCESS

A64-25588

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

TOXIC GASEOUS SUBSTANCES DISCHARGED BY CHLORELLA N64-23754

ORGANIZATION OF CLOSED ECOLOGICAL SYSTEMS FOR PROLONGED MANNED SPACE FLIGHT NASA-TT-F-9131 N64-29730

SHEPHERD, J. T.
BLOOD CIRCULATION CHANGES IN LUNGS DURING EXERCISE
A64-80082

SHEPHERD, M. C.

BIOCLECTROCHEMISTRY - ENZYME SYSTEMS, OXIDIZATION
POTENTIAL, ELECTRODE, & CHRONOPOTENTIOMETRIC STUDY
NASA-CR-52607 N64-11103

ELECTROCHEMICAL PRODUCTION ACTIVITY OF D-AMINO ACID, OXIDASE, UREASE, AND GLUCOSE OXIDASE ENZYME SYSTEMS
NSA-CR-55744
N64-15873

BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY PRODUCTION NASA-CR-54051 N64-25906

SHEPOSH, J.
MODERATE POSTSTIMULATORY FATIGUE EFFECT ON EAR
TUNING, USING BINAURAL PITCH MATCHING DATA
A64-18000

SHEPPARD, P. M.
CONTINUOUS AND QUANTAL THEORIES OF SENSORY
DISCRIMINATION A64-12939

SHERESHEVSKAYA, TS. M.

EFFECTS OF CORTISONE ON METABOLISM OF RIBONUCLEIC

ACID AND ITS NUCLEOTIDES IN RAT LIVER

NASA-TT-F-224

N64-27036

SHERIDAN, T. 8.
LOCKING AHEAD MECHANISMS TO CHARACTERIZE HUMAN
DPERATORS SENSING AND USING FUTURE IMPUT DATA IN
FORCED PACE CONTROL TASKS
A64-24839

NONLINEAR ADAPTATION OF HUMAN OPERATOR IN PURSUIT TRACKING SYSTEM NASA-CR-53879 N64-19955

SHEVCHENKO, I. T.

BLOOD POLAROGRAPHY FOR USE IN BIOLOGICAL AND
MEDICAL STUDIES
JPRS-27237
N64-33675

SHEVCHENKO, V. I.
IDNIZING RADIATION EFFECT ON CARDIOVASCULAR SYSTEM
JPRS-17659 N64-11607

X-RAY IRRADIATION EFFECT ON PROTHROMBIN AND THROMBOPLASTIC FORMATION IN BLOOD COAGULATION SYSTEM N64-11608

SHEVLYAKOV, L. V.

OERMATOLOGICAL EFFECTS OF AIRCRAFT FUEL AND
THERAPY
JPRS-16055
N64-28631

SHEVTSOVA, Z. V.

CAUSE OF DECREASE IN NATURAL RESISTANCE OF
IRRADIATED ANIMALS TO LIVE BRUCELLOSIS VACCINE
JPRS-24896 N64-21282

SHIK, M. L.
HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING
FIXED POSITION
JPRS-24606 N64-21826

SHIKHODYROV, V. V.
SPLEEN, LYMPH NODES, AND LOOSE CONNECTING TISSUE
REACTIONS TO ANTIGENIC STIMULI IN IRRADIATED
ANIMALS
N64-30244

SHILOV, V. M.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS
A64-25576

SHINDO, H.

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY

CENTRAL NERVOUS SYSTEM IN RABBIT

A64-80239

SHINER, A. J.

NECESSITY OF INTEGRATING MAN-MACHINE RELATIONSHIPS
PROPERLY INTO ADVANCED AEROSPACE SYSTEMS

A64-10112

SHIPLEY, T.
HUMAN ELECTRORETINGGRAPHY AS GAUGE OF VISUAL
PERCEPTION
AD-602526
N64-

HUMAN ELECTRORETINOGRAPHY AND VISUAL PERFORMANCE APR-2 N64-32379

SHIPMAN, T. L.
BIOMEDICAL RESEARCH ON MOLECULAR AND CELLULAR
RADIOBIOLOGY IN MAMMALS
LAMS-3034 N64-16573

SHIRAIMA, T.
POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR
FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS
SYSTEM STABILITY A64-80254

SHKABARA, K. O.
INPUT DEVICE FOR CONVERSION OF PHYSIOLOGICAL DATA
RECORDED ON MAGNETIC TAPE INTO BINARY CODE FOR
COMPUTER PROCESSING
N64-31537

SHKARENKOVA, L. S.
EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF
DESOXYRIBONUCLEIC ACID AND PROTEINS

N64-18412

SHKOLNIK-YAROSS, YE. G.
MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL
ANALYZER IN CEREBRAL CORTEX OF DOG

N64-31462

SHMAVONIAN, B. M.
COGNITIVE STRUCTURING, FIELD DEPENDENCEINDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO
PERCEPTUAL ISOLATION
A64-80727

SHMUKLER, H. W.

NONPROTEIN AMINO ACIDS & RELATED COMPOUNDS OF RAT
LIVER MITOCHONDRIA - CHROMATOGRAPHIC ANALYSIS
NADC-MA-6318

N64-14351

SHOENBERGER, R. W.
PERSONALITY ORIENTATION AND SUCCESS IN FLIGHT
TRAINING
REPT.-38
N64-30148

HUMAN PERFORMANCE DURING SINUSOIDAL AND RANDOM VIBRATION IN LOW SPEED, HIGH ALTITUDE FLIGHT N64-31512

SHOLTUZ, V.

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON
EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER
DIFFERENT CONDITIONS OF OXYGEN DIFFUSION

A64-80752

SHORIN, S. N.
LOWER LIMIT OF FRONT GAS REACTIONS DETERMINED IN
COMBUSTIBLE MIXTURES OF ORGANIC WASTE IN LIMITED
AND UNLIMITED SPACE

A64-25614

BURNING FOR DESTRUCTION OF ACTIVITY WASTE OF ORGANISMS N64-23780

SHPAKOV, P. S.

PHYSIOLOGICAL SIGNIFICANCE OF HUMAN VOICE AS
OBSERVED IN CHILDREN N64-31461

SHRAYBER, M. I.
CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY
ALGORITHM OPERATION
N64-10007

SHTARK, M. B. RELATIONSHIP OF ELECTRICAL AND METABOLIC ACTIVITY IN OLFACTORY CAPSULE OF HIBERNATING HEDGEHOG A64-80935

SHTERN, L. S. NERVE-REFLEX PROCESSES AND HOMEOSTATIC MECHANISMS IN PERMEABILITY CHANGES OF HISTOHEMATIC BARRIERS IN RADIATION SICKNESS

SHTILMAN, YE. V.
LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY
TAUGHT, & SELF-TAUGHT JPRS-21770

SHUBA. M. F. ELECTRICAL PROPERTIES OF NERVE AND MUSCLE FIBERS BY MEANS OF SURFACE EXTRACELLULAR ELECTRODES N64-31544

SHUFORD, E. H., JR.

DECISION THEORY - MEASUREMENTS OF SUBJECTIVE PROBABILITY AND UTILITY PROBLEMS

N64-ESD-TDR-63-622 N64-16074

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION
IN SCIENCE OF BEHAVIOR
ESD-TDR-64-193 N64-21533 N64-21533

SHULER, R. L. FEASIBILITY OF OXYGEN PRODUCTION BY ALGAE FOR NUCLEAR SUBMARINES NRL-5954

OXYGEN PRODUCTION BY ALGAE IN SMALL CULTURE UNIT NRL-5979 N64-10557

SHULTS, N. A.
EFFECT OF SOLAR RADIATION ON HUMAN BLOOD AND
CIRCULATORY SYSTEM JPRS-21864 N64-10327

INFLUENCE OF SOLAR ACTIVITY ON THE CIRCULATORY & HEMATOPOIETIC SYSTEMS AND BLOOD COMPOSITION OF MAN JPRS-18960 N64-11121

HYPOXIA AND EFFECT ON HEMATOPOIESIS IN MAN AND A64-81290

SHUMOVA, D. V. PATHOGENETIC MECHANISMS IN DEVELOPMENT OF BURN STEKNESS JPRS-24338 N64-18976

SHURLEY. SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE 464-80345

SHURRAGER, P. S. TARGETS AT SUBCEPTION - LEARNED RESPONSES TO TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS SYSTEM RESPONSE CAPACITY A64-80571

SHUST, I. V. EFFECT OF URANIUM ON ALKALINE PHOSPHATASE ENZYME OF SOME ORGANS OF RATS N64-31347

SHUSTER, YA. YA.

ACTIVITY OF BLOOD SERUM ENZYME DUE TO HYPOXIA,
ASPHYXIA, AND BURN SHOCK STIMULI N64-24562

SHUTOVA, N. T.
BURN TREATMENT, BLOOD STRUCTURE, AND RADIATION SICKNESS STUDIES

GENETICS AND STUDY OF HEREDITY - DNA MOLECULE N64-12765

SHUVATOV, L. P.

MINIATURE RADIOTELEMETRIC APPARATUS FOR RECORDING
PHYSIOLOGICAL RESPONSES
FTD-TT-63-1029/18284

N64-21544 N64-21544

SICOT, C.
NITROPROPANE POISONING. ANIMAL EXPERIMENTS AND

HUMAN CASE REPORTS

A64-81152

SIDELNIKOV, I. A. SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS

SIDLEY, N. A.
EFFECTS OF VARIOUS HIGH INTENSITY LIGHT SOURCES
ON RETINAL SENSITIVITY
N64-28 REPT--1549-TDR-1 N64-28288

SIDDRENKO, 6. I ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION JPRS-21975

SIDOROV, O. A.

DUTLINE OF SOVIET LITERATURE ON HUMAN ENGINEERING - PHYSIOLOGY, PSYCHOLOGY, AND HYGIENE JPRS-18772 N64-10505

ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION STRESS TOLERANCE A64-8: A64-81264

INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTMEG FLOWER SEEDS N64-11683

COMMUNICATION BIOPHYSICS - HEARING

N64-17884

A64-80898

DIGITAL COMPUTER SIMULATION OF MAN-MACHINE SYSTEMS, SIMULATING HUMAN OPERATOR STRESS, URGENCY CONDITIONS AND POINT OF BREAKDOWN A64-12976

INHALATION HAZARDS OF EXPOSURE TO ATMOSPHERIC

SIEGEL. M. H. H. HUMAN COLOR DISCRIMINATION IN PURPLE REGION 464-27753

SIEGEL. S. M. TOXIC EFFECTS OF ELEVATED OXYGEN LEVELS ON PLANTS. INVERTEBRATES AND HUMAN CELLS A64-10258

PHYLOGENETIC STUDY OF ANAEROBIC SEED GERMINATION, ENVIRONMENT EFFECTS ON GERMINATION, AND SEEDLING GROWTH NASA-CR-52635

SIEKER, M. O.
VALSALVA MANEUVER AND HYPERVENTILATION AS RELATED
TO ARTERIAL BLOOD GAS TENSIONS, GLUCOSE
CONCENTRATION, AND BLOOD PRESSURE
464-8089

VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS A64-80799

SILINA, YE. I.
EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF DESOXYRIBONUCLEIC ACID AND PROTEINS N64-18412

RELATIVE BIOLOGIC EFFECT OF IRRADIATION OF MICE WITH VARIOUS HEAVY IONS N64-15. N64-15217

ENVIRONMENTAL TEMPERATURE EFFECT ON MICE AND AMOEBA EXPOSED TO ATMOSPHERIC OXYGEN A64-20699

ENVIRONMENTAL TEMPERATURE AND ITS EFFECTS ON OXYGEN TOXICITY IN MICE AND GIANT AMOEBA, PELOMYXA CAROLINENSIS A64-A64-80505

TERRESTRIAL MICROORGANISMS IN SIMULATED PLANETARY ENVIRONMENT - MARS AND MOON

NASA-CR-56529

N64-22790

SILYERMAN, A. J.
COGNITIVE STRUCTURING, FIELD DEPENDENCE—
INDEPENDENCE, AND PSYCHOPHYSIOLOGICAL RESPONSE TO
PERCEPTUAL ISOLATION
A64-80727

SILVERMAN, G. J.

DESCRIPTION OF EXPERIMENTAL REQUIREMENTS FOR ADAPTING ULTRAHIGH VACUUM EQUIPMENT TO STUDY OF EFFECTS OF SIMULATED SPACE ENVIRONMENT ON MICROORGANISMS

A64-2498

EXPOSURE OF MICRODRGANISMS UNDER ULTRAHIGH VACUUM TO EXTREME TEMPERATURES NASA-CR-55288 N64-15183

EFFECT OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS NASA-CR-50333 N64-22752

EFFECTS OF SIMULATED SPACE ENVIRONMENTS ON VIABILITY OF MICROORGANISMS
NASA-CR-56524 N64-22785

EFFECT OF SIMULATED SPACE ENVIRONMENT ON VIABILITY OF MICROORGANISMS - ULTRAVIOLET RADIATION EFFECT NASA-CR-56525 N64-22786

VIABILITY OF MICROORGANISMS IN SIMULATED SPACE NASA-CR-59092 N64-33099

SILVERMAN, H. P.
BIOCHEMICAL FUEL CELLS - ELECTRO-OXIDATION OF
HYDROGEN AND FORMIC ACID
QPR-5
N64-13968

SILVERMAN, I.

AGE AND TENDENCY TO WITHHOLD RESPONSE IN RECOGNITION OF WORDS PRESENTED TACHISTOSCOPICALLY

A64-80131

SILVERSTOV, V. B.
CONTROL OF RODENT POPULATION AND POTENTIAL
VECTORS OF INFECTIOUS MICROORGANISMS IN AIRPORTS
A64-80913

SILVESTROV, M. M.
ISOLATION EFFECT ON HUMAN PERFORMANCE AND
STABILITY OF DEVELOPED HABIT OF TRANSMITTING
INFORMATION
A64-25593

ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS

A64-27272

MAINTENANCE OF HABITS OF INFORMATION TRANSMISSION UNDER LONG TERM ISOLATION CONDITIONS

N64-23759

SILYAYEVA, M. F.
EFFECTS OF X-RAY IRRADIATION ON ENZYME ACTIVITY
IN BRAIN AND MUSCLE TISSUE OF RATS
JPRS-25630
N64-27319

SIMAKOVA, T. L.
ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON
AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
FTD-TT-62-1449/18284 N64-16396

SIMEONI, O.
TENSION AND EXPULSION TIMES FOR CARDIAC SYSTOLE
AS FUNCTION OF FREQUENCY IN NORMAL CARDIOVASCULAR
SYSTEM OF MAN
NASA-TT-F-8567
N64-31557

SIMMONS, D. G.
TOLERANCE TO RAPID DECOMPRESSION UP TO 60,000 FEET
WEARING STANDARD OXYGEN MASK A64-80268

SIMMONS, D. H.

PULMONARY AND SYSTEMIC HEMODYNAMICS OF PASSIVELY
HYPERVENTILATED DOG AS RELATED TO PH AND CARBON
DIOXIDE TENSION

A64-81009

SIMMONS, E. L.
MORTALITY RATE OF MICE HOUSED IN PLASTIC & METAL
CAGES AFTER SINGLE X-RAY DOSE
N64-13509

SIMMONS, F. B.
MIDDLEEAR MUSCLE ACOUSTIC REFLEX RESPONSE
HABITUATED IN CAT A64-80385

SIMONOV, P. V.
HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO
PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE &
OTHER PHYSIOLOGICAL CHANGES N64-31459

SIMONS, D. G.
HIGH ALTITUDE EFFECTS ON ASTRONAUTS, COVERING
PSYCHOPHYSICAL FACTORS, FATIGUE STRESS AND TASK
COMMITMENT STRESS
A64-12978

PERSONALIZED RADIO TELEMETRY SYSTEM FOR IDENTIFYING MONITORING LEVELS OF CENTRAL NERVOUS SYSTEM UNDER AEROSPACE STRESS CONDITIONS

A64-23809

CENTRAL NERVOUS SYSTEM FUNCTIONAL INTEGRITY
ASSESSED THROUGH RADIO-TELEMETRY DURING MANNED
SPACE FLIGHT
A64-80435

MEDICAL MONITORING OF HEART RATE PATTERNS DURING CONDITIONS OF SLEEP, QUIET REST, BREATH-HOLDING, HYPOXIA, AND INCREASED G FORCES OF AIRCRAFT FLIGHT N64-28950

SIMONS, J. C.
MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS
UNDER ZERO AND LUNAR GRAVITY CONDITIONS

A64-80837

SIMPSON, G. G.
NONPREVALENCE OF EXTRATERRESTRIAL LIFE IN OUR
SOLAR SYSTEM, URGING CONCENTRATION ON TERRESTRIAL
LIFE
A64-15475

SIMPURA, S. F.
PROVIDING FOOD AND WATER FOR DOGS DURING SPACE
FLIGHT N64-11695

SINAIKO, H. W.
CURRENT AND FUTURE TRENDS IN HUMAN FACTORS
DOCUMENTATION A64-22081

TELECONFERENCING STUDIED AS MEANS OF GROUP
COMMUNICATION A64-24834

SINGER, G.
SPATIAL AFTEREFFECTS WITHIN AND BETWEEN
KINESTHESIS AND VISION
A64-81197

SINGER, M. M.

RESPIRATORY CONTROL AT ALTITUDE SUGGESTING ACTIVE
TRANSPORT REGULATION OF CEREBROSPINAL FLUID PH

A64-80114

SINIAK, IU. E.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

WATER REGENERATION METHODS FOR SPACECRAFT LIFE SUPPORT SYSTEMS A64-25577

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25586

CARBOHYDRATE SYNTHESIS IN SPACECRAFT CABIN BY FORMALDEHYDE POLYMERIZATION REACTION

A64-25608

SINITSYN. S. N.
SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND
DOG EXPOSED TO PROLONGED VIBRATION

A64-80725

SINITSYNA, F. F.
THERAPY OF PATIENTS WITH RADIATION INJURIES MEDICINE
FTD-TT-63-610/182
N64-22652

SINNAMON, L. D., JR.
CONTRIBUTIONS OF AUTOMATION TO PHOTO
INTERPRETER FUNCTIONS — OPTICAL PROCESSING AND
TEXTURAL ANALYSIS
N64-10527

SINSHEIMER, R.

RING STRUCTURE OF SINGLE STRAND DEDXYRIBONUCLEIC ACID SHOWN BY ELECTRON MICROSCOPY

N64-30785

SINTON, M. M.
TEMPERATURE MEASUREMENTS AND OBSERVATIONAL
EVIDENCE OF LIFE IN THE FORM OF VEGETATION IN THE
DARK REGIONS OF MARS
A64-10126 A64-10126

SINYAN, YU. YE.
WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE
SUPPORT SYSTEM N64-23742

REGENERATION OF WATER IN SPACESHIP CABIN

N64-23743

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM N64-23752

PHYSICOCHEMICAL SYNTHESIS OF CARBOHYDRATES IN SPACESHIP CABIN N64-23774

SIPPLE, J. H.
BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

SIPPLE, W. C. ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING BLACKOUTS INDUCED BY ACCELERATION NADC-ML-6402 N64-20450

FUNCTION OF ADRENAL GLAND AND HEMATOPOIETIC SYSTEM UNDER TEMPORARY AND PROLONGED HYPOXIA DURING MOUNTAIN CLIMBING - MEDICAL STUDY

N64-15202

CHANGES IN MORPHOLOGY OF BLOOD IN ATHLETES AFTER UNDERWATER SUBMERSION - RESUSCITATION OF DOGS AFTER DEATH BY ELECTRIC TRAUMA JPRS-18855

PHYSIOLOGY OF ADAPTATION IN HUMAN TO HIGH ALTITUDE

RADIOBIOLOGY EXPERIMENTS TO STUDY COSMIC RADIATION EFFECT, UNDER CONDITIONS OF SPACE FLIGHT ON HEREDITARY STRUCTURE OF DIFFERENT BIOLOGICAL AND CYTOLOGICAL ORGANISMS

A64-13798

VOSTOK V AND VI BIOLOGICAL EXPERIMENTS CONCERNING COSMIC RADIATION EFFECTS ON GENETIC CHARACTERISTICS OF PLANT SEEDS, CELLS AND FRUIT FLIES A64-18630

COSMIC RADIATION EFFECT ON LIVING ORGANISMS AND PROBLEMS OF PROTECTION A64-BO A64-80911

SPACE FLIGHT BIOLOGICAL PROBLEMS - OVERLOADING, VIBRATION, WEIGHT, RADIATION, PRESSURE, ISOLATION, TEMPERATURE, AND FOOD JPRS-20168

SPACE BIOLOGY - EFFECT OF RADIATION EXPOSURE AND WEIGHTLESSNESS ON ORGANISMS, AND SPACE FOOD STUDY N64-11667

CHLORELLA PYRENOIDOSA PROTEIN ANALYSIS FOR ESSENTIAL AMINO ACIDS - SPACE BIOLOGY

N64-11697

PROBLEMS OF SPACE BIOLOGY JPRS-25287

N64-23734

RADIOBIOLOGICAL RESEARCH OF COSMIC RADIATION EFFECTS DURING SPACE FLIGHTS N64-27631

PHYSIOCHEMICAL PROCESSES IN BIOCHEMISTRY AND APPLICATIONS IN INDUSTRY JPRS-27063 N64-33344

SIVKO, T. N.

MASS GROWTH OF PLANKTON ALGAE DURING PURIFICATION

PROCESS IN BIOLOGICAL PONDS

A64-81292

SJOLIN, S. WATER INTOXICATION DUE TO GASTRIC LAVAGE IN CASES OF SUSPECTED ANILINE POISONING NASA-TT-F-9056

N64-31445

SJONGERS. J. J.

CARDIOVASCULAR, RESPIRATORY, AND METABOLIC EFFECTS
OF AMPHETAMINE, MEPROBAMATE, SODIUM AND POTASSIUM
ASPARTATE, AND ETHYL ALCOHOL AT REST AND DURING EXERCISE A64-80352

SKACHKOVA, A. I.

ELECTRONIC DIFFERENTIATING DEVICES FOR ANALYSIS OF PHYSIOLOGICAL PROCESSES FTD-TT-63-1191 N64-24324

SKEBELSKAYA, YU. B.
CHANGE IN FUNCTION OF THYROID GLAND DURING STRESS JPRS-26911

SKEEN, J. R.
MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH
RESOLUTION SENSOR IMAGERY AMRL-TDR-64-29 N64-26960

SKIDMORE, W. D.

PRIMER ACTIVITY OF CHROMATOGRAPHY FRACTIONATED
DEOXYRIBONUCLEIC ACID FROM CALF AND RAT THYMUS
MAG-24. USNRDL-TR-655 N64-24185

SKLANSKY, J. EFFECT OF FEEDBACK ON ADAPTIVE CHARACTERISTICS IN LIFE SCIENCES AND MAN-MACHINE INTERACTIONS AMRL-TDR-64-39 N64-26884

SKORNETSKIY, V. M.
VIBROGRAPH MEASUREMENT OF OVERALL VIBRATION N64-22730

SKOROBOGATOVA, A. M.
DEGREE OF ABSORPTION OF IONIZED AIR IN UPPER
RESPIRATORY TRACT OF MAMMAL AND BIRD

A64-80895

SKREBITSKIY, V. G.
MORPHOLOGICAL CONNECTIONS AND RESPONSES OF VISUAL ANALYZER IN CEREBRAL CORTEX OF DOG N64-31462

SKRIPCHENKO, A. V.
INDIVIDUAL PECULIARITIES IN DEPTH PERCEPTION WITH
OBJECT MOVING AWAY AND TOWARD SUBJECT

SKRIPKIN, YU. K.

METHODS USED TO ADMINISTER ELECTRICALLY INDUCED SLEEP JPRS-23524

SKUBIC, V.
HEART RATE BEFORE, DURING AND AFTER STRENUOUS
PHYSICAL EXERCISE IN FEMALE MEASURED WITH
A64-

SKURIKHINA, M. M.

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE A64-25581

SKURIKHINA, M. S. METABOLIC INDICES IN ASTRONAUTS

N64-23747

SLATER, A. E.

PHYSICO-CHEMICAL PROPERTIES OF LIFE, THE EVOLUTION OF LIFE, AND EVIDENCE OF EXTRATERRESTRIAL LIFE A64-11388

RESPONSE TO WEIGHTLESSNESS AS RELATED TO ASTRONAUT TRAINING AND SELECTION

SLATER, A. J.
EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON
WING GROWTH OF CONFUSED FLOUR BEETLE
N64-2751

N64-27513

SLATER, G. R.
PSYCHOLOGICAL, PHYSIOLOGICAL, AND BIOCHEMICAL
EFFECTS OF STRESS IN FASTING MAN

A64-81005

- SLATER, J. V.
 EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON
 WING GROWTH OF CONFUSED FLOUR BEETLE
 N64-27513
- SLAWSON, K. B.
 VENTILATORY RESPONSE TO EXCESS CARBON DIOXIDE AND
 HYPOXIA AND RELATION TO DRUG EFFECT
 A64-81229

SLOCUM, G. K.
MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH
RESOLUTION SENSOR IMAGERY

AMRL-TDR-64-29 N64-26960
SLONIM. H. D.

RELATIONSHIP BETWEEN TISSUE REQUIREMENT AND OXYGEN
UPTAKE DURING HYPOXEMIA A64-81262

RISK-TAKING BEHAVIOR EVALUATED AS UNITARY
DIMENSION OF PERSONALITY A64-80447

SMILEY, J. A.
ACCIDENT PRONENESS AND INDIVIDUAL VARIATION IN
LIABILITY
A64-80403

SMILEY, J. R.
EJECTION SEAT INJURIES IN ROYAL CANADIAN AIR FORCE
AS RELATED TO EQUIPMENT AND TRAINING

A64-80175

SMIRNOV, A.

CYBERNETICS IN BIOLOGY, MEDICINE, AND SPACE FLIGHT

JPRS-23749

N64-17244

SMIRNOY, G. D.
POLARIZATION EFFECTS OF LABYRINTH AND BRAIN ON
STIMULI CONDUCTION IN VISUAL SYSTEM IN CAT
A64-80871

SMIRNOV, I. V.

MASS PRODUCTIVITY OF CHLORELLA IN NONSYMMETRIC
BIOLOGICAL CULTIVATOR, NOTING IRRADIATED SURFACE
AND SUSPENSION VOLUME REQUIRED FOR GAS EXCHANGE

THEORY OF CHLORELLA CULTIVATION BASED ON ABSORPTION OF RADIANT ENERGY

N64-11044

MATHEMATICAL ANALYSIS OF CULTIVATION OF CHLORELLA IN BIOLOGICAL CULTIVATORS WITH IRREGULAR SHAPES N64-23778

SMITH, A. H.

JUDGMENT OF SLANT WITH CONSTANT OUTLINE
CONVERGENCE AND VARIABLE SURFACE TEXTURE GRADIENT
A64-80579

SMITH, B. A.
PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT
NEW MEXICO STATE UNIVERSITY OBSERVATORY
N64-16327

SMITH, B. S.
INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM FUMES FROM FLUOROCARBON RESIN PYROLYSIS

A64-22065

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUOROCARBON RESIN PYROLYSIS A64-80637

SMITH, C. A.
HISTOLOGICAL STUDIES ON INNER EARS OF SQUIRREL
MONKEYS
NASA-CR-55517
N64-16328

SMITH, C. R.
MEASUREMENT OF BLOOD PRESSURE IN HUMAN BODY
NASA-SP-5006 N64-17838

SMITH, C. W.
CARDIDVASCULAR RESPONSE TO ACUTE HYPOCAPNIA DUE TO

OVERBREATHING

A64-80407

SMITH, E. E.
HEMATOCRIT RATIO AND SURVIVAL OF UNACCLIMATIZED
DOGS AT SIMULATED ALTITUDE A64-80103

PROJECTED ROLE OF MAN IN MACHINE ENVIRONMENT ACCEPTANCE DATA FOR MAN-MACHINE SYSTEM
NASA-CR-95
N64-30831

SMITH, F. K.

CENTRIFUGE AS FLIGHT SIMULATOR - RESTRAINT SYSTEMS
AND PHYSIOLOGICAL REACTION TO ACCELERATION STRESS
N64-13457

SMITH, G. B., JR.
ENGINEERING AND PHYSIOLOGICAL CONSIDERATIONS
INVOLVED IN SELECTION AND VALIDATIONS OF
ARTIFICIAL GASEOUS ATMOSPHERE FOR GEMINI AND
APOLLO MISSIONS
A64-13517

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS
OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE
SUITS
SAM-TDR-63-59
N64-12855

SMITH, G. G.
ALPHA FREQUENCY OF ELECTROENCEPHALOGRAM AND
STABILIZED RETINAL IMAGE
A64-81241

SMITH, G. S.

CARDIOVASCULAR EFFECTS OF REFEEDING STRESS
FOLLOWING STARVATION
TM-62-6

N64-21553

SMITH, J. M.
CARBON DIOXIDE REMOVAL, CONVERSION, AND DXYGEN
REGENERATION
N64-24627

SMITH, J. R., JR.
IMPEDANCE PNEUMOGRAPH SIGNAL CONDITIONER
NASA-CR-56834
N64-25572

SMITH, K. U.

SENSORY FEEDBACK ANALYSIS OF STEREOTELEVISION
PURSUIT TRACKING INCLUDING ADDITION OF AUDITORY
CUES

A64-80604

SMITH, L.
LIPID TRANSFER BETWEEN HIGH DENSITY AND VERY LOW
DENSITY LIPOPROTEINS N64-22864

SMITH, L. E.

REACTION TIME AFFECTED BY NEUROMUSCULAR
JUNCTIONAL TRANSMISSION IN MUSCLES UNDER MAXIMAL
STRETCH

A64-81143

SMITH, P. E., JR.

OYNAMIC MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER
SYSTEM USING ANALOG COMPUTER TO SIMULATE
PHYSIOLOGICAL RESPONSE

A64-25320

OXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL ENVIRONMENTS A64-80111

THERMOREGULATION AND MATHEMATICAL MODEL OF HUMAN HEAT TRANSFER SYSTEM FOR ANALOG SIMULATION A64-81038

SMITH, P. W.
TOXIC ACTION OF ORGANOPHOSPHATE PESTICIDES ON
CENTRAL NERVOUS SYSTEM A64-19142

SMITH, R. B.

MAINTENANCE TECHNIQUES FOR TETHERED WORKERS UNDER
ZERO GRAVITY CONDITIONS
GA-63

N64-32154

SMITH, R. E.
STEADY STATE BIGENERGETICS CONSIDERED IN
ATMOSPHERIC AND ENVIRONMENTAL CONTROL OF MANNED
SPACE VEHICLES
A64-18425

MEAN HYPOTHALAMIC, THALAMIC, AND RECTAL
TEMPERATURES OF NORMAL AND COLD ACCLIMATED RAT
EXPOSED TO LOW ENVIRONMENTAL TEMPERATURE
A64-80975

SMITH, R. F. WOLFF-PARKINSON-WHITE SYNDROME AS AVIATION RISK -ELECTROCARDIDGRAPHIC ANOMALY REPT.-15 N64-14778

SMITH, R. G., JR.
PERSONNEL TRAINING PROGRAM DEVELOPMENT HUMRRO-RB-11

N64-32681

BIBLIOGRAPHY ON PROFICIENCY MEASUREMENT FOR TRAINING QUALITY CONTROL AD-448362 N6

N64-32813

A64-14012

SMITH, R. J.
MUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED
DIET FOR SPACE FLIGHT MISSION A64-80 A64-80863

HALLUCINATIONS AS FUNCTION OF SUSTAINED SENSORY DEPRIVATION AND SOCIAL ISOLATION AD-439431 N64-25127

SMITH, S. L.
COLOR CODING AND VISUAL SEPARABILITY IN

INFORMATION DISPLAYS

COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS A64-80603

SMITH, M.
VITAMIN E PREVENTS HEMOLYTIC ANEMIA, DECREASES
CONVULSIONS AND MORTALITY DUE TO HIGH PRESSURE OXYGEN EXPOSURE A64-25546

VITAMIN E EFFECT ON HEMOLYSIS AND CONVULSIONS OCCURRING IN MICE EXPOSED TO PURE DXYGEN UNDER A64-80920

CHANGES IN CATALASE ACTIVITY OF EGG HOMOGENATES DURING EMBRYONATION N64-32225

ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE NRL-6074

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE AAGA-- LSM N64-19407

SMITH, W. G. ELECTRUCARDIOGRAMS OF MARATHON RUNNERS

A64-80951

EYE FIXATION CONTROL BY AUDITORY FEEDBACK

A64-80905

SMITH- W. R. STEROID AND CATECHOLAMINE EXCRETION OF PILOTS IN SPACE CABIN SIMULATOR A64-12938

SMYGLYY, S. I. BIONICS - ITS METHODS AND RESULTS JPRS-24971

N64-21289

SMYLIE. J. W. CARBON DIOXIDE REDUCTION, ATMOSPHERIC REGENERATION SYSTEMS, AND WATER RECOVERY FOR LONG MISSION MANNED SPACE VEHICLE SSD-TDR-64-95 N64-31979

SMYTH, H. F., JR. POLE-CLIMB PERFORMANCE OF RAT AS AFFECTED BY INHALATION OF NINE SOLVENT VAPORS

A64-81096

BEHAVIOR AND BODY WEIGHT OF RAT INHALING TRICHLOROETHYLENE AND CARBON DISULFIDE VAPORS A64-81242

SNEATH, P. H. A. SPACE TRAVEL AND PLANETARY ENVIRONMENT EFFECT ON MICROORGANISMS

EFFECTS OF RADIATION ON OXYGEN BALANCE IN BRAIN TISSHES

SNIPES, W. C.
WATER VAPOR FOUND TO PROTECT ARTEMIA CYSTS FROM
RADIATION DAMAGE OR TO HEAL THE DAMAGE A64-10092

SNYAKIN, P. G.
PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY DRGANS IN MAN JPRS-19762 N64-11352

RELATION BETWEEN OPTIC AND SKIN PERCEPTION OF LIGHT IN MAN N64-32779

NONLINEAR CHARACTERISTICS OF CLOSED LOOP MANUAL CONTROL SYSTEM WITH COMPENSATORY TRACKING A64-24130

SNYDER, H. L. HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING PILOTS LINE OF SIGHT AS HEAD ROTATES

EFFECTS OF PHYSICAL AND GEOMETRIC PARAMETERS AND HUMAN VISUAL LIMITATIONS ON VISIBILITY DURING LOW ALTITUDE HIGH SPEED FLIGHT N64-

SNYDER, R. E. INTEGRATED SPACE SUIT, SUIT LOOP AND BACKPACK SYSTEM FOR NORMAL AND EMERGENCY SPACECRAFT OPERATION AIAA PAPER 64-214 A64-20487

SNYDER, R. G. HUMAN SURVIVABILITY OF EXTREME IMPACTS IN FREE FALL CARI-63-15 N64-11995

SOCHAVA, V. B.
MAPPING OF GEOGRAPHICAL DISTRIBUTION OF VEGETATION N64-28007

INDUCED RADIOACTIVITY IN BIOMATERIAL & INSTRUMENTS
OF SATELLITES DURING SPACE FLIGHT N64-11686

SOKOLOV. E. N. SELECTIVE MECHANISM OF ORIENTATION REFLEX IN RESPONSE TO COMBINED STIMULUS A64-81094

SOKOLOV. N. N. INFLUENCE OF SPACE FLIGHT CONDITIONS INCLUDING COSMIC RADIATION ON SPRING ONION & NUTHER FLOWER SEEDS

MEDICAL USE OF HORMONES FOR OVEREXPOSURE TO **IONIZING RADIATIONS** JPR 5-19066 N64-11063

SOKOLOVA, L. V. 24-HOUR PERIODICITY OF MITOTIC DIVISION OF CELLS AND GLYCOGEN CONTENT IN LIVER OF RAT

SOKOLOVA, N. V. ROLE OF FUNCTIONAL STRESS IN LOCALIZATION OF RADIATION SICKNESS JPRS-22586 N64~12576

SOKOLOVA, T. A.

MASS GROWTH OF PLANKTON ALGAE DURING PURIFICATION
PROCESS IN BIOLOGICAL PONDS

A64-81292 A64-81292

SOKOLOVA, YE. G.
LIGHT AND COLOR IN NATURE, STRUCTURE OF HUMAN EYE,
AND HYGIENE OF COLOR VISION JPRS-25184 N64-22742

SOLE, P. INTRAOCULAR PRESSURE MEASUREMENTS EMPLOYING SCHIOTZ TONOMETRY TO DETERMINE SIGNIFICANCE OF GLAUCOMA INCIDENCE IN AVIATORS

A64-2 A64-20700

GLAUCOMA INCIDENCE AS RELATED TO ALTITUDE AND STRESSES ENCOUNTERED BY FLYING PERSONNEL A64-80506 SOLIDAY, S. M.
PILOT PERFORMANCE AND PHYSIOLOGICAL RESPONSE TO
SIMULATED LOW-ALTITUDE HIGH-SPEED FLIGHT N64-28948

AUTOCORRELATION AND CROSSCORRELATION ANALYSIS OF MARKED RHYTHM IN HUMAN EEG DURING MUSCULAR 464-81314 ACTIVITY

.OMON, G. F.
PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL
STRESS IN RATS A64-810 A64-81087

SOLOMON, P.
SENSORY DEPRIVATION AND BUTTON-PRESSING FOR A64-80574 TIME-OFF REWARD

VISUAL DEPRIVATION EFFECTS ON IMAGERY A64-80799 EXPERIENCED BY DEAF SUBJECTS

BUTTON-PRESSING FOR TIME-OFF REWARD DURING SENSORY DEPRIVATION RELATED TO SUBJECTIVE RATING OF A64-81144 WELL-BEING

HALLUCINATION, AROUSAL, AND RAPID EYE MOVEMENTS DURING SENSORY DEPRIVATION A64-81 A64-81212

SOLOPOV, YE. F.
STRUCTURE & FUNCTION OF MOLECULAR LEVEL LIFE,
CORRELATION BETWEEN FORMS OF MOTION & FORMS OF MATTER N64-10269 JPRS-21806

SOLOVYEV, N. A. MECHANISM OF BIOLOGICAL ACTION OF PULSED MAGNETIC

MEDICAL ELECTRONIC APPARATUS TO AID IN RECORDING N64-23444 DIAGNOSIS

SOLTI. F. CHLORPROMAZINE EFFECT ON PERIPHERAL CIRCULATION AND OXYGEN CONSUMPTION IN MUSCLE OF EXTREMITIES IN MAN AND DOG

SOMER, T.

BASE-LINE EFFECTS ON RESPONSE ON STROKE VOLUME TO LEG EXERCISE IN THE SUPINE POSITION A64-80736

METHOD OF TREATMENT OF AURICULAR FIBRILLATION NASA-TT-F-8555 N64-23117

SOMMER, H. C.
EFFECTS ON WORD INTELLIGIBILITY WHEN EXPOSED TO
LOW FREQUENCY SINUSOIDAL VIBRATIONS WITHIN THE
RANGE OF 6 CPS TO 20 CPS FOR SEMI-SUPINE TALKERS
A64-102 A64-10253

ELECTROSTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIOLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS A64-25545

HEARING PHENOMENA WITH EXPOSURE TO ALTERNATING A64-80919 ELECTROSTATIC FIELD

SOMOGYI: I. VESTIBULAR NEURON ACTIVITY IN CATS DURING NATURAL SLEEP AND WAKEFULNESS AT RELATED TO ELECTRONENCEPHALOGRAPHIC ELECTROMYOGRAPHIC, AND ELECTRONYSTAGMOGRAPHIC RECORDINGS

ELECTROMYOGRAPHIC STUDY OF SPINAL REFLEXES INDUCED BY ELECTRICAL STIMULATION OF MUSCLE AFFERENTS DURING SLEEP AND WAKEFULNESS IN CAT A64-81066

SPONTANEOUS ACTIVITY OF SINGLE VESTIBULAR NEURON OF CAT DURING SLEEP AND WAKEFULNESS AS DETERMINED THROUGH ELECTROENCEPHALOGRAM A64-81067

SOMOV. R. A. METHODS USED TO ADMINISTER ELECTRICALLY INDUCED JPRS-23524

N64-16002

SONDHAUS, C. A.
COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED MICE

DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER /LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON IRRADIATED SPHERICAL LUCITE PHANTOM

N64-15204

CYTOPHOTOMETRIC METHOD FOR MEASURING HEMOGLOBIN AND NUCLEIC ACID IN ERYTHROCYTE PRECURSORS

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS N64-22866

SORET, F.
ELECTROENCEPHALOGRAM OF RAT DURING SHORT PERIODS OF WEIGHTLESSNESS

PHYSIOLOGICAL TELEMETRIC METHOD USING SWALLOWABLE RADIOCAPSULE FOR STUDY OF GASTROINTESTINAL A64-80792 PROCESSES

USE OF RADIOCAPSULE IN PH DETERMINATION OF GASTROINTESTINAL CONTENT A64-81022

RADIO TELEMETRY STUDY OF PH OF DIGESTIVE SYSTEM N64-27367 NASA-TT-F-9026

RADIOTELEMETRY STUDY OF DIGESTIVE FUNCTIONS N64-30237

SORIN, A. S. UTILIZATION OF GASTROINTESTINAL RADIOCAPSULE IN STUDY OF ACIDITY OF DUODENAL CONTENT A64-81021

USE OF RADIOTELEMETRY TO STUDY GASTRIC EVACUATION NASA-TT-F-9060 N64-31338

SORKIN, A. I.
SUBLIMINAL PERCEPTION - LEARNED RESPONSES TO
TARGETS AT SUBCEPTUAL LEVELS AND CENTRAL NERVOUS
A64-805' A64-80571 SYSTEM RESPONSE CAPACITY

HUMAN BEHAVIOR DURING SPACE TRAVEL - MAINTENANCE OF HEALTH N64-14943 ENG. REPT.-11133

SOROKIN, C.
ORGANIC SYNTHESIS BY GREEN, HIGH TEMPERATURE ALGAE
IN VARIOUS DEVELOPMENTAL STAGES
N64-12001

TEMPERATURE DEPENDENCE OF METABOLIC PROCESSES IN N64-15307 PHOTOSYNTHETIC CELLS

PHOTOSYNTHETIC VARIABILITY IN ALGAE CELLS N64-19495

ALGAL CELL BUFFERING ACTIVITY & EFFECT ON CELL N64-24008 DIVISION

RADIDACTIVE CARBON-14 FOR AQUATIC ECOLOGY STUDY -HYDROBICLOGY N64-10593 JPRS-20614

SOROKINA, YE. I.
PHYSIOLOGICAL RESPONSE OF HUMAN BODY TO N64-23697 ACCELERATION

SOROKINA, Z. O. ELECTROMETRIC AMPLIFIER FOR USE WITH HIGH RESISTANCE GLASS MICROELECTRODES IN MEASURING IONIC ACTIVITY IN MUSCLE AND NERVE CELLS N64-31545

SOSNOVSKIY, A. T.
TRACE ELEMENTS IN RADIATION DERMATITES N64-25198 JPRS-25502

- SOSOVA, V. F.
 ACTION OF ANTIBACTERIAL IMMUNITY ON RESISTANCE TO RADIATION
 FTD-TT-63-933/162
 N64-26722
- SOURS, J. E.
 FEAR OF FLYING SYNDROME REAPPRAISAL AND
 PROGNOSIS
 A64-80181
- SOUSSEN, G.
 ANOXIA, HYPERNOXIA, AND DECOMPRESSION SICKNESS
 EFFECT ON LIGHT AND DARK ADAPTED RETINAS
 A64-8080
- SOUTHARD, J. F.
 EVALUATION OF AUTOMATED HYPOTHESIS AIDS IN
 MULTIMAN-MACHINE SYSTEMS TO ASSESS OR DIAGNOSE
 THREATS BAYES THEOREM
 AMRL-TOR-64-51
 N64-33907
- SPADY, A. A., JR.
 SIMULATION OF LUNAR GRAVITY, FOR PRELIMINARY
 TESTING OF MANNED LUNAR MISSION, SPACECRAFT AND
 INSTRUMENTATION A64-15204
 - GRAVITY SIMULATION TECHNIQUE FOR STUDIES OF SELF-LOCOMOTION IN LUNAR ENVIRONMENT NASA-TN-D-2176 N64-16916
- SPALTER, H. E.
 HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT
 INTRACRANIAL PRESSURE IN DOG
 A64-80611
- SPANER, F. E.
 PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE
 MEASUREMENT OF STRESS INTENSITY

 A64-80711
- SPAR, I. L.
 IMMUNOLOGICAL REMOVAL OF IODINE-131 LABELED RABBIT
 ANTIBODY TO RAT FIBRINGEN IN NORMAL AND
 TUMOR-BEARING RATS
 UR-634
 N64-10190
- SPARKS, J. C., JR.
 HISTORY OF AIR RESCUE SERVICE AND USE AND
 DEVELOPMENT OF DEVICES AND TECHNIQUES FOR AIR
 EVACUATION OF SICK AND WOUNDED RESCUE IN SPACE
 FLIGHT
 A64-80597
- SPARROCK, J. M. B.
 BLEACHING OF RETINAL PHOTOSENSITIVE PIGMENTS AND
 RELATION TO AFTERIMAGES AND VISUAL THRESHOLDS IN
 DARK ADAPTATION
 A64-19573
- SPASSKIY, V.
 ENCYCLOPEDIA DESCRIPTIONS OF AIR REGENERATION,
 ROENTGEN, ROENTGEN MACHINES, & RESPIRATORS
 JPRS-22213
 N64-12139
- SPECKMANN, E. W.
 NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED
 DIET FOR SPACE FLIGHT MISSION A64-80863
- SPECTOR, R. G.
 GLUCOSE AND CARBOHYDRATE METABOLISM IN
 ANOXIC-ISCHAEMIC RAT BRAIN
 A64-81048
- SPERANSKAYA, T. A.
 EFFECT OF PROTECTIVE SUBSTANCES ON REACTIVITY
 CHANGES OF THIOL GROUPS IN LIVER OF X-RAY
 IRRADIATED MICE
 JPRS-22125
 N64-11359
- SPERLING, H. G.
 PERIPHERAL VISUAL DISPLAY SYSTEM FOR RANGE
 PERCEPTION AUGMENTATION IN SIX DEGREE OF FREEDOM
 MANUALLY CONTROLLED VEHICLES
 A64-23300
- SPICHENKOV, M. P.
 AUTOMATIC OPTIMUM FREQUENCY STIMULATOR AS MODEL
 FOR AUTOMATICALLY CONTROLLED TREATMENT-DIAGNOSTIC
 EQUIPMENT CYBERNETICS N64-12530
- SPIEGEL, J.

 COMPUTER TO MAN INFORMATION TRANSFER COMPARING
 TECHNOLOGY WITH INTUITION

 A64-22531

- SPIEGLER, P. E.
 BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR
 EXTRATERRESTRIAL HABITATION
 AMRL-TDR-63-121 N64-16095
- SPIETH, W.

 CARDIOVASCULAR HEALTH AND AGING IN RELATION TO
 PSYCHOMOTOR PERFORMANCE IN HUMAN

 A64-80971
- SPIGEL, I. M.
 SPATIOTEMPORAL RELATIONS IN AFTEREFFECTS OF I-FIGURE ON CRITICAL FLICKER FREQUENCY

A64-80934 SIZE CONSTANCY EFFECT ON DECREMENT OF CRITICAL FLICKER FUSION WITH REDUCED RETINAL SIZE OF

- STIMULUS

 STIMULUS

 SETOCH. E M
- SPIOCH, F. M.
 CARDIOVASCULAR RESPONSE IN MAN TO HIGH AMBIENT
 TEMPERATURE AND HUMIDITY A64-80135
- SPIRIN, A. S.
 TRANSFER OF AMINO ACID STRUCTURE TO RIBOSOMES FROM
 DESOXYRIBONUCLEIC ACID BY RIBONUCLEIC ACID CODING
 OF PROTEIN
 N64-12511
- SPITKOVSKIY, D. M.
 PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND
 DESOXYRIBONUCLEIC ACID N64-18329
 - MECHANISM OF REPRODUCTION /REDUPLICATION/ OF DESOXYRIBONUCLEIC ACID N64-18331
- SPIVACK, G.
 TIME JUDGMENT-CONSISTENCY OF INDIVIDUAL
 DIFFERENCES
 A64-80745
- SPDDAK, R. B.
 PHYSICAL ANALOGS OF BIOLOGICAL LAWS AND SYSTEMS
 AD-604369
 N64-32865
- SPONG, P.
 COMPUTER-AVERAGED POTENTIALS FOR CORTICAL EVOKED
 RESPONSES TO STIMULI DURING VISUAL VIGILANCE
 TASKS
 - CORTICAL EVOKED POTENTIALS AND ATTENTIVENESS AS RELATED TO SIGNAL DETECTION IN VIGILANCE TASK
- SQUIRES, R. D.
 ELECTROENCEPHALOGRAPHIC CHANGES IN HUMANS DURING
 BLACKOUTS INDUCED BY ACCELERATION
 NADC-ML-6402
 N64-2045
- ST. CLAIRE-SMITH, R.
 TERRAIN EFFECT UPON PERCEIVED DISTANCE
 A64-81330
- STACY, R. W.
 ALVEDLAR CARBON DIOXIDE EQUILIBRIA IN
 BREATH-HOLDING EXPERIMENTS WITH HUMANS
 A64-80741
- STAHLE, I.

 DETERMINATION OF NITROGEN CONCENTRATION DURING
 BREATHING WITH MULTIPLE BREATH METHOD AND RELATION
 TO NORMAL PULMONARY VENTILATION

- STALLWORTH, J. M.
 HEMATOCRIT CHANGES IN DOG UNDER HYPERBARIC OXYGEN
 A64-80154
- STALMACH, C. J., JR.
 HYPERVELOCITY WIND TUNNEL TESTS FOR DYNAMIC
 STABILITY OF CONE WITH NITROGEN GAS INJECTION INTO
 FLOW FIELD AT NOSE
 REPT.-2-59740/3R-479
 N64-15343
- STANILAND, A.
 VISUAL PATTERN RECOGNITION AS FUNCTION OF
 REDUNDANCY
 A64-80473
- STAPLEFORD, R. L.
 ASTRONAUT ROLE IN SPACECRAFT ORBITAL RENDEZVOUS
 A64-27814

STAPP. B. BIOLOGICAL EFFECT OF X-RAY IRRADIATION AND INCREASED GRAVITY ON ULTRASTRUCTURAL ALTERATION AND GROWTH CURVE IN PHAGE-FREE ESCHERICHIA COLI B

GROWTH OF E. COLIBACTERIA CULTURES EXPOSED TO IONIZING RADIATION AND INCREASED GRAVITY

GRAVITY AND RADIATION EFFECTS ON CELL GROWTH AND ULTRASTRUCTURE N64-33453

- STARK, J. E.
 CONCEPTS OF ATMOSPHERE CONTROL IN SUBMARINE A64-81037
- STARK, L.
 SAMPLED DATA MODEL FOR ACTION OF A CONTROL SYSTEM FOR DIRECTING HUMAN GAZE AT A MOVING TARGET A64-14354

SIMILARITY OF AUTOMATIC INTERPRETATION OF QRS COMPLEX BY PATTERN RECOGNITION TECHNIQUE TO HUMAN PATTERN RECOGNITION A64-BORBS A64-80886

- DIURNAL VARIATIONS OF GASTRIC SECRETION IN A64-81312
- STASENKOVA, K. P.
 TOXICITY OF ISOALCOHOLS, HIGHER ALCOHOLS, AND
 MELAMINE-FORMALDEHYDE RESINS N64-25462 FTD-TT-64-97/1&4
- STASEVICH, R. A.
 STRESS ON HUMAN BODY BY ACCELERATION AND
 WEIGHTLESSNESS JPRS-20345 N64-11137
- STASHKOV, A. M.
 RADIATION SICKNESS PHARMACOLOGICAL PROTECTION JPRS-24817 N64-21729
- STASYUK, A. A. VENTILATION OF AIRCRAFT CREW FLIGHT CLOTHING -TEMPERATURE REGULATION FTD-TT-63-774/1&2 N64-22180
- STAUFFER, H.
 WHOLE-BODY SCINTILLATION COUNTER IN STUDY OF N64 CALCIUM 47 TURNOVER N64-15216
- STAYIG, P. L.
 MEDICAL SUPPORT AND TRAINING OF FLYING PERSONNEL
 IN HIGH ALTITUDE FLYING A64-803 A64-80394
- STECH, E. L. STATISTICAL ANALYSIS OF VERTEBRAE BREAKING STRENGTH AND ENDPLATE FRACTURES RELATED TO ACCELERATION STRESS A64-81 006

MATHEMATICAL MODEL OF HUMAN BODY FOR ASSESSMENT OF LOADS ON BODY DURING ACCELERATION TECH. REPT.-115-2

WATER RECYCLING SUBSYSTEM FOR SPACE STATION, USING ACTIVATED CARBON, ION EXCHANGE RESIN AND FINE PORE FILTER A64-17321

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH WATER FROM CABIN AIR DEHUMIDIFIERS N64-28949

- STEELE, M. VISUAL MONITORING PERFORMANCE AS INFLUENCED BY SECONDARY TASK OF SIMPLE MENTAL ARITHMETIC A64-81141
- STEEN, B.
 ELECTROMYOGRAPHIC STUDY OF HIP AND THIGH MUSCLE FUNCTION IN ROMBERG POSITION AND STANDING AT EASE A64-80383
- STEFANOVICH, YE. V.
 IONIZING RADIATION EFFECT ON LIVER PROTEIN &
 BIOELECTRIC CURRENT IN MUSCLES

N64-11346 JPRS-18760

- MOBILE SUPPORT FACILITY FOR BIOASTRONAUTICS A64-80545
- STEINBERG, F. U.
 VIBRATORY THRESHOLD AS AFFECTED BY AGING AND
 IMPAIRMENT OF PERIPHERAL CIRCULATION
 A64
- STEINBUCH, K.

 CYBERNETICS ROLE IN SPACE FLIGHT INCLUDING CONTROL
 CIRCUITS FOR GUIDANCE AND ELECTRONIC EQUIPMENT

 A64-28379 AUTOMATION AND DEVELOPMENT
- STEINER, G.
 BROWN AND WHITE ADIPOSE TISSUE METABOLISM IN
 COLD EXPOSED RAT
 A64 A64-81065
- STEKOLNIKOV, L. I.
 BIOLOGICAL ACTIVITIES OF INSULIN UNDER ULTRASONIC
 TREATMENT N64-1079 N64-10798
- STENBERG, J.
 CIRCULATORY RESPONSE TO PROLONGED STRENUOUS LEG EXERCISE
- STEPANOV, V. M.
 INJURIES FROM X-IRRADIATION
 JPRS-24185 N64-18967
- STEPANOVA, A. M. EFFECT OF LIGHT ON GROWTH AND PHOTOSYNTHESIS OF CHLORELLA FTD-TT-64-246/18264 N64-26113
- STEPANTSOV, V.
 EFFECTIVE MEANS OF INCREASING HUMAN ENDURANCE UNDER CONDITIONS OF ACCELERATION STRESS FTD-MT-63-20/1 N64-18665
- STEPANYAN. Y. P. CATECHOLAMINES IN VARIOUS ORGANS OF DOGS UNDER CONDITIONS OF DEEP HYPOTHERMIA FTD-TT-63-1096/162 N64-2 N64-22142
- PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE AND EFFICIENCY OF WORK IN NORMAL AND REDUCED TRACTION ENVIRONMENTS

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT, HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN A64-80688

- STERLING. L. F.
 FACTOR ANALYSIS OF CARDIOVASCULAR TEST VARIABLES
- STERLTSOVA, V. N.
 HIGH EMERGY NEUTRON AND PROTON RADIATION EFFECTS
 ON LIFESPAN, PERIPHERAL BLOOD, AND RATE OF
 APPEARANCE OF TUMORS IN RATS
 FTD-TT-63-1049/18284 N64-192 N64-19220
- STERN. B. BODY VOLUME DETERMINATION USING HELIUM DILUTION AS AFFECTED BY GASES, HEAT, AND MOISTURE EMITTED BY TRANSPIRATION AND RESPIRATION A64-811
- STERN. R. M. AUTOKINETIC ILLUSION - FREQUENCY AND DIRECTION OF MOVEMENT OF LIGHT STIMULUS RELATED TO SUGGESTION, EYE MOVEMENT, AND RELATIVE SENSORY DEPRIVATION A64-80576
 - VISUAL AND AUDITORY STIMULI EFFECTS ON GASTROINTESTINAL MOTILITY A64-80613

ELECTROPHYSIOLOGICAL EFFECT OF SHORT-TERM SENSORY DEPRIVATION TR-9

FREQUENCY AND DIRECTION OF MOVEMENT IN AUTOKINETIC ILLUSION N64-26278 TR-10

STEVENS, K. N. ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

STEVENS, P. M.
CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN
A64-1 A64-19131

PHYSICAL INACTIVITY EFFECT, DISREGARDING WEIGHTLESSNESS, ON CARDIOVASCULAR DECONDITIONING DURING ORTHOSTATIC TESTING A64-2206

IMMOBILIZATION AND PHYSICAL INACTIVITY AS RELATED TO ORTHOSTATIC TOLERANCE AND CIRCULATORY DYNAMICS A64-80632

STEMARD, P. G.
DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER
/LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON
IRRADIATED SPHERICAL LUCITE PHANTOM N64-15204

STEWART, G. M.

OPTICAL LENSES AND PROTECTION OF RABBIT EYE
AGAINST BALLISTIC MISSILES

A64 A64-81045

WART, J. L. ANIMAL DISCRIMINATION AND RECOGNITION IN NOISE-FREE ENVIRONMENT N64-18836

STEMART, M. K.
AEROSPACE MEDICINE IN AERONAUTICS RESEARCH N64-11882

STHINSBY, W. N. AUTOREGULATION OF BLOOD CIRCULATION IN SKELETAL MUSCLE OF DOG A64-81236

REACTION TIME IN HUMAN TO ONSET AND END OF MECHANICAL CUTANEOUS STIMULI A A64-81148

STIEHM, E. INCREASED HOST RESISTANCE TO ACCELERATION STRESS DRUGS, CONDITIONING, HYPOPHYSECTOMY, RETICULOENDOTHELIAL STIMULATION N64-13464

STILSON, A. E., JR.
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE N64-13854

STINNETT, G. W.
PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND
WORK-REST CYCLE ON CREW FOR LUNAR MISSION
N64-1451 N64-14519

MANUAL CONTROL OF APOLLO SPACECRAFT DURING ATMOSPHERIC ENTRY NASA-TN-D-2467 N64-27946

CREW PERFORMANCE DURING REAL TIME LUNAR LANDING MISSION SIMULATION NASA-TN-D-2447 N64-29206

STODDARD, D. H.
PHYSICIAN ROLE IN SPACE MEDICINE

A64-14118

STOIAN, M.
CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT
NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-80142

STOKINGER, H. E. VALIDITY & HAZARDS OF EXTRAPOLATING THRESHOLD LIMIT VALUES OF INDUSTRIAL ATMOSPHERES TO CONTINUOUS EXPOSURE - SPACE CAPSULE CONDITIONS N64-24614

STOKLOSA, E. EFFECTS OF LOW FREQUENCY MECHANICAL VIBRATIONS ON BLOOD CHANGES IN WHITE RATS FTD-TT-64-242/1

STOLL, A. M.

OXYGEN ENRICHMENT OF SPACE CAPSULE ATMOSPHERE AND EFFECT ON BURNING RATE OF FABRICS

A64-80928

STOLUROW. L. M.
PSYCHOLOGY — TAXONOMY OF LEARNING TASK
CHARACTERISTICS AMRL-TDR-64-2

N64-19815

N64-23608

STOLWIJK, J. A. J. TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN TEMPERATURES IN DOG AND RHESUS MONKEY A64-80113

STOLZENBACH, F.
ISOLATION, CRYSTALLIZATION, AND PHYSICOCHEMICAL
PROPERTIES OF BEEF AND CHICKEN ENZYMES - LACTIC
DEHYDROGENASES PUBL.-281 N64-28295

PERIPHERAL VASOCONSTRICTION INDUCED BY EMOTIONAL STRESS IN RATS

STONE, R. S.
RADIATION THERAPY, SYNCHROTRON OPERATION,
RADIOBIOLOGY, & RADIATION GENETICS STUDIES
NO N64-13133

JR. ME; R. W., JR.
HUMAN TOLERANCE TO PHYSIOLOGICAL EFFECTS OF HEAD
MOTIONS IN ROTATING ENVIRONMENT
AIAA PAPER 64-218
A64-2009 464-20093

TOLERANCE TO VEHICLE ROTATION OF ASTRONAUTS USING TURNING AND NODDING MOTION OF HEAD WHILE PERFORMING SIMPLE TASKS AIAA PAPER-64-218

OBSERVATIONS DURING WEIGHTLESSNESS SIMULATION WITH SUBJECT IMMERSED IN ROTATING WATER TANK NASA-TN-D-2195 N64-30094

STOPPS, G. J. OXYGEN CONSUMPTION AND HEART RATE AS INDICATORS OF PHYSIOLOGICAL STRAIN DURING WORK IN WARM AND COOL **ENVIRONMENTS** A64-B0111

STOYANDY, K.
RESUSCITATION OF AN ORGANISM FROM CLINICAL DEATH JPRS-20013 N64-10600

STRAKHOV, A. B.
NOISE EFFECT ON CONDITIONED REFLEXES, BRAIN
CARDIOVASCULAR SYSTEM IN DOG. FUNCTION, AND CARDIOVASCULAR SYSTEM IN DOG AND RABBIT

MECHANICAL TETHERING SYSTEM USING ANGULAR MOMENTUM TO RETRIEVE ASTRONAUT SEPARATED FROM SPACE VEHICLE AIAA PAPER 64-393 A64-21862

STRANDBERG, L. G.
SD2 ABSORPTION IN RESPIRATORY TRACT OF RABBIT AS
RELATED TO CONCENTRATION AND BREATHING PHASE A64-80963

STRANDELL, T.
HEART RATE, ARTERIAL LACTATE CONCENTRATION, AND
DXYGEN UPTAKE DURING EXERCISE IN OLD AND YOUNG MEN A64-80984

HEART VOLUME, STROKE VOLUME, AND CARDIAC DUTPUT DURING EXERCISE OF OLD MEN COMPARED TO YOUNG MEN A64-81031

STRANGEWAYS, D. H.
NERVE CELL CHANGES IN HIPPOCAMPUS FOLLOWING ANDXIA A64-80218

ANOXIA VARIOUSLY INDUCED AND BRAIN DAMAGE IN A64-80219

STRAUB, H. W.
PROTECTION OF HUMAN EYE FROM LASER BEAM TR-1153 N64-24092

BLOOD THINNING AND SODIUM CHLORIDE LOSS WITH INCREASED WATER INTAKE NASA-TT-F-9116 N64-N64-33398 STREIMER, I.

PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE
AND EFFICIENCY OF WORK IN NORMAL AND REDUCED
TRACTION ENVIRONMENTS

A64-22815

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT,
HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN
A64-80688

- STRELNIKOV, YU. E.
 PHARMACOLOGICAL EFFECTS ON CATS OF TETRAMETHYLCYSTAMINE N64-31346
- STRELTSOVA, V. N.
 LEUKOSES AND TUMORGENESIS BY IONIZING RADIATION.
 AND PATHOGENESIS OF RADIATION TUMORS
 JPRS-26532
 N64-30613
- STRICKLAND, B. A., JR.
 BIOASTRONAUTICS AND AEROSPACE MEDICINE PROBLEMS IN
 MANNED SPACE FLIGHT
 A64-80231
- STRICKLAND, B. K.
 DECISION-MAKING RELATED TO CERTAIN PERSONALITY
 VARIABLES
 A64-80440
- STRICKLAND, B. R.
 PURSUIT ROTOR PERFORMANCE WITH POSITIVE AND
 NEGATIVE APPROVAL MOTIVATION A64-81216
- STRIGALEVA, N. V.

 ROLE OF BACTERIA IN CONVERSION OF PETROLEUM CARBON
 AND ASPHALT COMPONENTS UNDER ANAEROBIC CONDITIONS
 FTD-TT-62-1449/18284

 N64-16396
- STROAMEYER, G. W.
 HYPOXIC EFFECT ON IRON ABSORPTION AND MOBILIZATION
 IN RAT AS RELATED TO XANTHINE OXIDASE

 A64-80593
- STROLLO, M.
 HUMAN TOLERANCE TO CONFINEMENT AS RELATED TO
 PERSONALITY TRAITS INVESTIGATED IN SELECTION OF
 ASTRONAUTS

 A64-11434

PSYCHOLOGICAL CONTRIBUTIONS OF AEROSPACE PHYSICIANS TO PILOT TRAINING A64-28578

- STROMME, S. B.
 TEMPERATURE REGULATION AND HYPOTHALAMIC AND SKIN
 TEMPERATURES IN DOG AND RHESUS MONKEY

 A64-80113
- STROTHER, G. K.
 MICROSPECTROPHOTOMETRY

N64-14740

STRUGHOLD, H.
GRAVITATIONAL, MAGNETIC, RADIATION, ATMOSPHERIC,
HYDROSPHERIC, LITHOSPHERIC, AND BIOTIC
ENVIRONMENTAL DATA NEEDED FOR SUCCESSFUL MANNED
FLIGHT TO MARS
A64-10101

PHYSICAL AND CHEMICAL ENVIRONMENTS OF THE PLANETS AND SOLAR RADIATION ENVIRONMENT OF INTERPLANETARY SPACE A64-80061

STRUMZA, M.-V.

ATMOSPHERE CONSIDERATION FOR SUSTAINED SPACE
FLIGHT NOTING USE OF AN INERT GAS FOR REGENERATING
DXYGEN

A64-11428

HYPOXIC HYPERVENTILATION IN RESTING AND WORKING SUBJECTS AS RELATED TO HYPERCAPNIA AND MENTAL FACILITIES A64-80772

- STRUTSOVSKAYA, S. V.
 RADIATION MEDICINE THERAPEUTIC PASTE FOR
 TREATMENT OF RADIATION LESIONS N64-15678
- STRYDOM, N. B.

 HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
 ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
 PHYSICAL EXERCISE IN HOT ENVIRONMENT

 A64-80696

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN

HOT AND HUMID CLIMATES

A64-80697

- PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764
- PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014
- STRZHIZHOVSKII, A. D.
 IONIZING RADIATION EFFECT ON 24-HOUR RHYTHM OF
 MITOSIS IN CORNEAL EPITHELIUM OF MOUSE
 A64-81308
- STRZHIZHOVSKIY, A. D.
 STATISTICAL ANALYSIS OF SUPPRESSING MECHANISM OF
 CELL DIVISION UNDER INFLUENCE OF IONIZING
 RADIATION
 N64-16904
- STUART, J. E.
 QUEUING MODEL FOR DETERMINING MANPOWER AND
 TRAINING HUMAN ENGINEERING
 AMRL-TDR-64-21
 N64-19101
- STUKOVA, L. M.
 RADIATION MEDICINE THERAPEUTIC PASTE FOR
 TREATMENT OF RADIATION LESIONS N64-15678
- STUNTZ, S. E.

 HUMAN ENGINEERING IN POWER GENERATOR AND VOICE
 COMMUNICATION LINK SUBSYSTEMS OF MOBILE AIR
 TRAFFIC CONTROL & COMMUNICATION SYSTEM, AN/TSQ-47
 ESD-TDR-63-656
- STUPAR, J.

 RUBIDIUM IN AGRICULTURALLY IMPORTANT MATERIALS
 THROUGH ATOMIC ABSORPTION FLAME PHOTOMETRY
 NJJS-R-425
 N64-21698
- STURUA, G. G.
 EXCRETION OF 17-HYDROXYCORTICOSTEROIDS AND
 5-HYDROXYINDOLEACETIC ACID DURING JET FLIGHTS
 JPRS-23607
 N64-16544
- SUAREZ, S. F.
 QUANTITATIVE ANALYSIS BY RADIOACTIVE PHOSPHORUS-32
 OF TRICALCIUM PHOSPHATE SOLUBILIZED BY BACILLI
 N64-13474
- SUDAK, F. N.
 REDUCTION OF RETROACTIVE EFFECT OF INTERPOLATED
 MAZE TRAINING IN HYPOTHERMIC MICE

 A64-81015
- SUDNOV, A. M.
 ANTHRAX VACCINE INJECTION IN ANIMALS TO REDUCE
 MORTALITY RATE FROM RADIATION SICKNESS
 N64-15680
- SUEDFELD, P.

 SENSORY DEPRIVATION AND SOCIAL ISOLATION EFFECTS
 ON PERFORMANCE OF UNSTRUCTURED COGNITIVE TASK
 A64-80267

VISUAL HALLUCINATIONS DURING SENSORY DEPRIVATION - PROBLEM OF CRITERIA

- SUGANO, H.

 BODY TREMOR RELATED TO DIFFERENTIAL STIMULATION OF
 CENTRAL NERVOUS SYSTEM A64-80389
- SUGIMOTO, R. T.
 SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE
 FILTERING PROCESSES OF TRACHEAL OUTER WALL
 E-T-J-63-6
 N64-14675
- SUGIMOTO, S.

 PSYCHOLOGICAL AND PHYSIOLOGICAL ALTERATION OF LACK
 OF VISUAL, AUDITORY AND TACTILE STIMULATION IN
 SPACE FLIGHT
 A64-23766
 - HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX A64-80314
- SUIT, W. T.
 PILOT CONTROL OF ORBITAL DOCKING OF ATTITUDE-

STABILIZED VEHICLE BY VISUAL-CUE GUIDANCE - FIXED-BASE SIMULATOR
NASA-TN-D-2036 N64-12715

SUKHORUKOV, B. I.

OPTICAL PROPERTIES AND MOLECULAR STRUCTURE OF
NUCLEIC ACIDS AND THEIR PROPERTIES OBSERVED
THROUGH DEDXYRIBONUCLEIC ACID N64-19439

TAUTOMER TRANSFORMATIONS OF NUCLEIC ACID COMPONENTS AND ROLE IN MUTAGENESIS

N64-28035

SUKYASYAN, G. V.
CHANGES OF HEMATOPOIETIC TISSUE IN DOG WITH ACUTE
RADIATION SICKNESS AFTER BONE MARROW TRANSPLANT
JPRS-25251
N64-26055

SULIMO-SAMUILLO, E. K.

ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION
STRESS TOLERANCE
A64-81264

SULLIVAN, G. H.

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY
THROUGH PULSE WAVE VELOCITY MEASUREMENT
AIAA PAPER 64-216

A64-20483

MYDELECTRIC POTENTIALS USED TO OPERATE SERVO BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER A64-80553

SULLIVAN, M. N.
DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN
TROPICAL AREAS
A64-81317

SULTANOV, F. F.
EFFECT OF ASCORBIC ACID ON FUNCTION OF STRESSED
SUPRARENAL GLANDS OF RATS IN HIGH TEMPERATURE
ENVIRONMENT
JPRS-20011

SUMMERS, L. G.
HUMAN TRACKING PERFORMANCE UNDER TRANSVERSE
ACCELERATION
A64-14013

HUMAN TRACKING PERFORMANCE & TOLERANCE TO ACCELERATION NASA-CR-21

NASA-CR-21 N64-16534

INFLUENCE OF MEXAMINE ON REACTION OF PATIENT
SUBJECTED TO RADIATION THERAPY
N64-30242

SURIN, Y. L.

ROLE OF SPATIAL IMAGINATION IN DESIGNING AND IN
TEACHING OF DRAWING IN TECHNICAL SCHOOLS

N64-25160

SURKOY, YE. N.

DYNAMICS OF SPATIAL ATTRIBUTES OF MOVEMENTS IN
PROCESS OF FORMATION OF IMAGES OF GYMNASTIC
EXERCISES

N64-2515

SUSLOV, A. I.

POSSIBLE MECHANISM OF INFORMATION PROCESSES IN
ORGANISMS - CYBERNETICS
JPRS-24816

N64-21125

SUSSKIND, C.
BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC
EFFECTS ON NERVOUS SYSTEM
REPT.-63-27
N64-21680

SUTTERER. W. F.

ACCELERATION STRESS MEASUREMENT ON CARDIORESPIRATORY SYSTEM BY DECREASES IN ARTERIAL
DXYGEN CONCENTRATION
AMRL-TOR-63-104
N64-16806

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS SYSTEMS IN HUMAN BODY AMRL-TDR-63-105 N64-16807

SUTTON, J. A.
CHEMISTRY OF LEACHING COPPER SULFIDE MINERALS WITH
AUTOTROPIC BACTERIA - MINERALOGY
BM-RI-6423
N64-18987

SUVOROV, N. N.
MICE IRRADIATION TESTS FOR EFFECTIVENESS OF PHARMACO-CHEMICAL PROTECTION AGAINST GAMMA AND 660 AND 120 MEY ENERGY PROTONS A64-26812

BIOCHEMICAL COMPOUND TO RAISE THERMAL RESISTANCE OF ORGANISMS N64-22729

SUVOROV, P. M.
BIOELECTRIC ACTIVITY OF CEREBRAL CORTEX IN
RELATION TO HUMAN ACCELERATION TOLERANCE ON BASIS
OF ELECTROENCEPHALOGRAMS
A64-25599

BIOELECTRIC ACTIVITY OF CEREBRAL CENTERS UNDER INFLUENCE OF G-FORCES N64-23765

SUVORDY, S. V.
HYGIENIC CHARACTERISTICS OF INDUSTRIAL RHENIUM
AEROSOL
JPRS-26069
N64-27671

SUVORDY, V. A.
BIOMEDICAL EVALUATION OF BURN SHOCK AGAINST
BACKGROUND OF RADIATION EFFECT N64-10009

SUZUKI, J.-I.

EYE MOVEMENTS AND MUSCLE ACTIVITY RESULTING FROM
ELECTRICAL STIMULATION OF SEMICIRCULAR NERVES IN
CAT

A64-80461

SUZUKI, M.

VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA
EFFERENT MOTOR SYSTEM IN CAT

A64-B0240

SUZUKI, Y.
DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN
ROUTINE LIGHTING
A64-80591

SUZUMURA, A.

KINETIC VISUAL ACUITY IN PILOT SELECTION AND
EVALUATION OF FATIGUE

A64-80315

SVESHNIKOV, A. A.
GAMMA IRRADIATION EFFECTS ON VESTIBULAR ANALYZER
SENSITIVITY AND RESPONSE IN TESTS ON RABBITS AND
DOGS
A64-25603

PROTON AND CAMMA IRRADIATION EFFECT ON FUNCTION OF VESTIBULAR ANALYZER IN DOGS JPRS-22120

SENSITIVITY AND REACTIVITY OF VESTIBULAR ANALYZER UNDER INFLUENCE OF IONIZING RADIATION

N64-23769

SVETIKOVA, K. M.

CHANGES IN EPITHELIUM OF RATS UNDER INFLUENCE OF RADIATION
JPRS-22556

N64-1425

REPARATIVE REGENERATION OF CUTANEOUS & INTESTINAL EPITHELIA AT ANAL JUNCTION AFTER THERMAL INJURY DUE TO X-RAY IRRADIATION OF RATS

N64-14252

SVIRIDOV, N. K.
HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL
CHANGES IN DOGS DURING RECOVERY PERIOD FROM
RADIATION SICKNESS
N64-32780

SMAIN, A. D.
HUMAN FACTORS IN DESIGNING MORE RELIABLE SYSTEMS,
EMPHASIZING THAT HUMAN ERROR IS DUE PRIMARILY TO
INAPPROPRIATE DESIGN
A64-15953

HUMAN FACTORS RELIABILITY ANALYSIS OF MAN-MACHINE SYSTEM SCR-685 N64-1726

SWAN, A. G.
SKIN TEMPERATURE, PAIN SENSITIVITY AND BURN INJURY
FROM SIMULATED NUCLEAR FLASH ON AIRCREW MEMBERS
A64-B0327

SWEANY, S. K.
THORACIC AND ABDOMINAL MASS LOADING EFFECT ON
VOLUME PRESSURE CURVES IN CONSCIOUS AND
ANESTHETIZED, OBESE AND NORMAL SUBJECTS

A64-80997

SWEARINGEN, J. J.
HUMAN FACTORS IN EMERGENCY AIRCRAFT PASSENGER
EVACUATION FROM SURVIVAL ACCIDENTS

A64-SAE PAPER 851B A64-20760

MEASUREMENT OF FORCES ON HUMAN BODY DUE TO AIR MOVEMENT N64-23617 CARI-63-9

WIND MEASUREMENTS OF BLAST FORCES ON BODY DURING PRESSURE LOSS — EFFECT OF CLOTHING ON DRAG FORCES AND BODY MEASUREMENTS DURING WIND TUNNEL TESTS N64-32066 AD-602207

BACTERIAL CELL DIVISION IN RELATION TO OXIDATION-REDUCTION POTENTIAL CHANGE FOR EXTRATERRESTRIAL LIFE DETECTION N64-19577 NASA-CR-53734

SWEENEY, J. S.
HELMET POSITION SENSING SYSTEM /HELPS/ INDICATING
PILOTS LINE OF SIGHT AS HEAD ROTATES A64-24832

BIOLOGICAL EFFECTS OF HIGH ENERGY PROTON IRRADIATION OF HUMANS AND OTHER ANIMALS N64-33195 NASA-CR-5887

AIAA PAPER 64-213

ESD-TDR-64-174

SWET. C. J. STORABLE PROPELLANT UTILIZATION EXTENDED TO INCLUDE ATMOSPHERE REPLENISHENT, THERMAL CONTROL
AND WATER AND POWER PRODUCTION

TS. J. A. SIGNAL DETECTION BY HUMAN OBSERVERS - PSYCHO-PHYSICS

COMPUTER-AIDED LEARNING OF SOUND IDENTIFICATION N64-26892 NAVTRADEVCEN-789-2

SWIFT, J. CHEMICAL AND RADIATION STERILIZING AGENTS -BIBLIOGRAPHY OF EFFECTS ON MICROORGANISMS NASA-CR-58123

SYLVESTER-BRADLEY, P. BIOGENIC AND ABIOGENIC EVIDENCE OF ORIGIN OF OIL AND LIFE

SYMBAS, P. N.
PLASMA CATECHOLAMINE AND HISTAMINE CONTENTS IN DOG
DURING SURFACE HEATING A64-80874

SYMONS, J. J. FOOD MANAGEMENT AND NUTRITION FOR MANNED SPACE A64-80396 STATIONS

HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT N64-18041 AMRL-TDR-64-3

BIOMEDICAL RESEARCH IN ACCELERATION, IMPACT, MEIGHTLESSNESS, VIBRATION, AND EMERGENCY ESCAPE AND RESTRAINT SYSTEM - BIBLIOGRAPHY N64-22711 CARI-63-30

SZAFRAN. J. REGRESSION ANALYSIS OF RESPONSE TIME, FOR PILOT SENSORY MOTOR PERFORMANCE IN RELATION TO AGE

A64-11507 AGE EFFECT ON SEQUENTIAL DECISIONS AND

SZIKLAI, C.
MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL
LOCALIZATION OF VISUAL STIMULI IN UP-DOWN
DIMENSION OF SPACE

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI

CARDIOVASCULAR STATUS AMONG PILOTS

A64-80496

SZMYD, L.
CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST A64-80564

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FI IGHTS SAM-TDR-62-110

HYDROXYCORTICOSTEROID LEVEL OF PATIENTS SCHEDULED FOR DENTAL SURGERY SAM-TDR-63-11 N64-1236 N64-12366

SUSPENSION OF ORGANIC MATTER IN WATER TO INCREASE YIELD OF PORPHINE-LIKE SUBSTANCES

TABAKIN, B. S.
CIRCULATORY AND RESPIRATORY RESPONSE OF NORMAL MEN
TO GRADED TREADMILL EXERCISE A64-80516

ANTICIPATORY AND RECOVERY HEART RATES IN SKIERS THROUGH ELECTROCARDIOGRAPHIC TELEMETRY A64-80731

TABB. D. C. FRESH-WATER, BRACKISH-WATER, AND MARINE ECOLOGY OF FLORIDA EVERGLADES N64-30195 MI -63609

ISOLATION OF ANTIBODIES FROM AGGLUTINATING ANTI-PLAGUE & ANTICHOLERA SERUM, AND PURIFICATION, USING NEW LUMINESCENT STAIN JPRS-19936

POSSIBLE HAZARD OF GALACTIC AND SOLAR RADIATION BETWEEN 20 AND 30 KILOMETERS

REVIEW OF STUDIES OF RADIATION EFFECTS ON ANIMALS AND PLANTS

REVIEW OF COSMIC RAY EFFECTS ON BIOLOGICAL MATERIAL ON EARTH, IN AIR, AND IN SATELLITE A64-80912

TABUSSE, L. INTRAVENOUS UROGRAPHY IN AIRCREWS

A64-80033

ASTHMA TEST BY PNEUMOTACHOGRAPHY AFTER INHALATION A64-80286 OF ACETYLCHOLINE AND ALEUDRINE

TAGEEVA, S. V.
OPTICAL PROPERTIES OF CHLORELLA ALGAE SUSPENSIONS,
NOTING ABSORPTION DEPENDENCE ON CELL SIZE AND A64-25602 STRUCTURE

SUSPENSION OF UNICELLULAR ALGAE AS COMPONENT OF CLOSED CYCLE FOR CREATION OF NORMAL HUMAN ACTIVITY CONDITIONS IN LONG-TERM SPACE FLIGHTS N64-23768

TAKAGI, S. HYPOXIA EFFECT ON EVOKED POTENTIAL, SLOW NEGATIVE POTENTIAL, AND STEADY POTENTIAL IN RABBIT CORTEX A64-80314

TAKAHIRA, S.
SPECTRAL OBSERVATION OF VOCAL SOUND WAVES AND WAVE
FILTERING PROCESSES OF TRACHEAL OUTER WALL E-T-J-63-6

TAKASAKA, M.
DIURNAL TEMPERATURE VARIATION OF CYNOMOLGUS
MONKEY, MACACA IRUS, IN RESPONSE TO CHANGES IN A64-80591 ROUTINE LIGHTING

TAKHA, M. S.
OPTIMAL CONCENTRATION OF METALS AND RADICALS ON GROWTH AND NITROGEN FIXATION OF BLUE-GREEN ALGAE N64-23656 BOTANY

- TALBOTT, G. D.
 ARTERIAL OXYGEN SATURATION REDUCTION DUE TO INDUCED HYPERLIPIDAEMIA IN HUMANS BY INTRAVENOUS INFUSION OF FAT EMULSION A64-10789
- TALLAND, G. A.

 REACTION TIME INFLUENCED DIFFERENTIALLY BY MARNING
 SIGNAL IN YOUTH AND OLD AGE

 A64-80164
- TAN, C. C.

 X-RAY IRRADIATION SENSITIVITY OF TESTES GERM CELLS
 OF RHESUS MONKEY /MACACA MULATTA/ AT DIFFERENT
 STATES OF SPERMATOGENESIS

 A64-27144
- TAMDY, R. K.

 PATTERNS OF HIGH- AND LOW-DENSITY ULTRACENTRIFUGAL
 LIPOPROTEIN DISTRIBUTION IN HEALTHY HUMAN
 POPULATION
 N64-15213
- TANG, P. C.
 ELECTROENCEPHALOGRAPHIC FINDINGS AND CALORIC
 IRRIGATION OF RIGHT EAR STUDIED IN DIAGNOSIS OF
 INFLIGHT LOSS OF CONSCIOUSNESS IN PRIVATE PILOT
 FLYING ALONE

 A64-20702

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS IN PRIVATE PILOT LEADING TO AIRCRAFT ACCIDENT - CASE HISTORY A64-80508

INFLIGHT VERTIGO AND LOSS OF CONSCIOUSNESS -ELECTROENCEPHALOGRAPHIC STUDIES CARI-63-21 N64-14952

- TANIN, S. A.

 CARDIOVASCULAR, RESPIRATORY, AND METABOLIC
 RESPONSES TO EXERCISE IN YOUNG AND OLD SUBJECTS
 A64-80044
- TANNER, T. A., JR.
 JUDGMENT OF VISUAL AND AUDITORY SIGNAL DURATION
 A64-80849
- TAPLIN, G. V.
 SMALL & LARGE SIZE RADIDALBUMIN AGGREGATES FOR
 PHOTOSCANNING LIVER, SPLEEN, LUNGS, & OTHER ORGANS
 UCLA-519
 N64-13004

PHOTOSCANNING OF HUMAN LUNG WITH MACROAGGREGATES
OF HUMAN SERUM RADIOALBUMIN
UCLA-12-521
N64-2067

QUANTITATIVE MEASUREMENT OF FRACTIONAL RENAL BLOOD FLOW BY TRACER TECHNIQUES FOR EVALUATING RENAL ISCHEMIA

ISCHEMIA UCLA-12-523 N64-21215

TARANTOVICH, T. M.
ELECTRONIC EQUIPMENT FOR MEASURING PULSE WAVE
PROPAGATION VELOCITIES IN ARTERIES
N64-30393

TARAPINA, T. V.

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE AND
SHIELDING AGENT ACTION AFTER REPEATED IRRADIATION
JPRS-22082

N64-12886

X-RAY EFFECT ON MAMMALIAN HEART MUSCLE

N64-12887

- TARASEMKO, A. G.
 TEMPERATURE EFFECT ON PROTECTIVE ACTION OF
 CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL
 CULTURES
 A64-80964
- TARDIFF, C. A.

 PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE
 AND EFFICIENCY OF WORK IN NORMAL AND REDUCED
 TRACTION ENVIRONMENTS

 A64-22815

PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT,
HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN
A64-80688

TARMAS, J.
MORPHOLOGIC CHANGES IN CEREBRAL NERVE CELLS
EVOKED BY LOUD NOISE IN GUINEA PIGS
A64-80367

- TARMY, E.
 BIOCHEMISTRY GENETIC MARKING OF PROPHAGES IN
 BACILLUS SUBTILIS N64-23278
- TARRIERE, C.
 PHYSICAL AND PSYCHOPHYSIOLOGICAL ASPECTS OF NOISE
 AS RELATED TO VIGILANCE A64-80719

COMPARISON OF SUBJECTIVE AND OBJECTIVE DATA
PERTAINING TO VIGILANCE TESTS, PSYCHOMOTOR
PERFORMANCE, AND NOISE EFFECTS
A64-80723

TARUSOV, B. N.
RADIOSENSITIVITY OF ORGANISMS TO IONIZING
RADIATION - PROTECTION BY VEGETABLE PIGMENTS IN
PLANT CELLS & ANTIOXIDANTS IN ANIMAL ORGANISMS
JPRS-19363
N64-11069

KINETIC REGULARITIES OF PRIMARY REACTIONS AND CHEMICAL PROTECTION IN RADIATION DAMAGE

N64-16009

- TATARSKIY, V. I.
 FOCUSING PROPERTIES OF OPTICAL SYSTEMS AND STELLAR
 REFRACTION N64-23462
- TATE, J. D.
 TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION
 BEHAVIOR
 AMRL-TOR-63-118
 N64-16799

HUMAN BEHAVIOR - PSYCHOLOGICAL RESEARCH ON DISPLAY VARIABLES RADC-TDR-64-266 N64-31695

- TATGE, R. B.

 EFFECT OF NOISE FROM CARRIER DECK JET ENGINE
 OPERATION ON HEARING, SPEECH INTERFERENCE, AND
 SONIC FATIGUE
 AD-432086
 N64-21840
- TAUB. A.

 EFFECT OF ELECTRIC STIMULATION ON SPINOCERVICAL

 TRACT OF CAT N64-33264
- TAUB, H. A.

 VIBRATION EFFECTS ON HUMAN PERFORMANCE OF DIAL
 READING
 CAL-VH-1838-E-1
 N64-32208
- TAYAL, C. P.
 SIZE CONSTANCY- FUNCTIONAL RELATION BETWEEN
 VISUALLY PERCEIVED SIZE AND DISTANCE

 A64-B0190

TAYLOR, E. R.
HISTORY OF BIODYNAMICS
ARL-TDR-63-10
N64-25331

- TAYLOR, H. L.

 MAXIMAL OXYGEN INTAKE PREDICTION STUDIED WITH
 RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND
 UNTRAINED INDIVIDUALS DURING EXERCISE
- TAYLOR, J. H.
 VISIBILITY PREDICTION, USING DATA ON HUMAN VISUAL
 PERFORMANCE CAPABILITIES A64-17621
- TAYLOR, M. M.
 TRACKING ROTARY MOTION AFTEREFFECT WITH DIFFERENT
 ILLUMINATIONS OF INSPECTION AND TEST FIELDS
 A64-B0587
- TAYLOR, N. B. G.
 PHYSIOLOGICAL EFFECTS OF ROTATIONAL ACCELERATION
 IN RELATION TO MOTION SICKNESS, SPATIAL
 DISORIENTATION, & BLACKOUT
 N64-13454
- MOON ILLUSION TESTED UNDER SIMULATED CONDITIONS
 PROVIDING VARIETY OF VISUAL CUES

 A64-80623
- TEARE, R. J.
 WHOLE-BODY VIBRATION EFFECT ON VISUAL PERFORMANCE
 D3-3512-4
 N64-15855

TEAS, D. C.
AUDITORY CORTEX RESPONSE OF UNANESTHETIZED CATS TO
ACOUSTIC STIMULI A64-27135

EVOKED RESPONSE FROM AUDITORY CORTEX IN CAT IN RELATION TO LOCAL INJURY TO CORTEX, ANESTHESIA, AND SLEEP A64-81027

RESPONSES FROM AUDITORY CORTEX IN CATS

N64-29594

TEDESCHI, P.
INFLUENCE OF RADIATION EXPOSURES ON PLANT
EMPLOYEES
ANL-6688

N64-12132

TEICHNER, W. H.
INPUT FACTORS AFFECTING ACCURACY WITH WHICH
OPERATOR CAN IDENTIFY LETTERS FROM BRIEFLY
EXPOSED, RANDOMLY SAMPLED AND POSITIONED ALPHABET
DISPLAYS
A64-21610

HUMAN INFORMATION PROCESSING UNDER TASK STRESS ESD-TDR-63-657 N64-16088

POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL FOR RECALL INFORMATION NAVTRADEVCEN-1303-3 N64-26953

REHEARSAL EFFECTS ON HUMAN PERFORMANCE - SHORT TERM RECALL OF BRIEFLY EXPOSED DISPLAYS NAVTRADEVCEN-1303-1 N64-29814

INFORMATION INPUT RATE EFFECT ON SHORT TERM HUMAN MEMORY NAVTRADEVCEN-1303-2 N64-29871

TELCHAROV, L. M.
NERVOUS SYSTEM CHANGES OF HUMAN ORGANISM AT 2000
METER ALTITUDE A64-81275

TELITCHENKO, M. M.
INTERRELATION OF PROTOCOCCAL ALGAE CULTURES AND
SALMONELLA THYPIHURIUM
JPRS-18092
N64-11211

TELUSHKINA, YE. L.
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER
PURIFICATION AND SANITATION
JPRS-21975
N64-10386

TEMPEST, M.

QUIET THRESHOLD OF HUMAN AUDIBILITY DETERMINED AT FREQUENCIES OF 125 TO 10,000 CPS AS FUNCTION OF TONE STIMULUS DURATION

A64-26639

TEMPLE, W. E.

MANS SHORT TIME TOLERANCE TO SINUSOIDAL
VIBRATIONS AT FREQUENCIES BETWEEN 3 AND 20 CPS IN
THREE ORTHOGONAL AXES

A64-27596

TEMPLETON, W. 8.

RELATIVE DEPTH JUDGMENT AS FUNCTION OF EYE
MOVEMENT

A64-80974

TENEICK, R. E.
HYPERCAPNIA AND RETINAL VESSEL SIZE AT CONSTANT
INTRACRANIAL PRESSURE IN DOG A64-80611

TENICELA, R.
HIGH ALTITUDE PHYSIOLOGY IN RELATION TO
ANAESTHESIA AND INHALATION THERAPY OF MOUNTAIN
INHABITANT
A64-80890

TENNANT, J. R.
ELECTRONIC BLOOD PRESSURE SAMPLER AND PRINTER AS
MONITOR
A64-81110

TENNEY, S. M.
HYPOXIC AND HYPERCAPNIC STIMULI INTERACTION IN
VENTILATORY RESPONSE OF HIGH ALTITUDE ACCLIMATIZED
SUBJECTS
A64-23260

ALVEDLAR-ARTERIAL OXYGEN GRADIENT IN MAN BREATHING VARIOUS OXYGEN CONCENTRATIONS AT HIGH ALTITUDE AND SEA LEVEL A64-80168

TEODORESCU, C.
CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT

NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN ANTI-G SUIT A64-80142

TEODOROVICH, V. P.
HISTOLOGICAL CHEMISTRY OF RETICULOENDOTHELIAL
SYSTEM FOLLOWING INFUSION OF BLOOD EXPANDER POLYVINYL ALCOHOL
N64-18523

TEPLOY, L. P.

CYBERNETICS - AUTOMATION, LOGICAL MACHINES,
CONTROL, IMPROBABILITY, FEEDBACK, ALGEBRA, AND
COMPUTERS
JPRS-23554

N64-172

TERESHCHENKO, A. P.
REUTILIZATION OF HUMAN WASTE MATERIALS IN
SPACECRAFT LIFE SUPPORT SYSTEMS

A64-25576

PHYSICOCHEMICAL REUTILIZATION OF HUMAN WASTE FOR SPACECRAFT LIFE SUPPORT SYSTEMS

WASTE UTILIZATION ON LONG TERM SPACE FLIGHT - LIFE SUPPORT SYSTEM N64-23742

PHYSICOCHEMICAL WASTE UTILIZATION COMPONENT FOR LONG-TERM SPACE FLIGHT LIFE SUPPORT SYSTEM
N64-2375/

TERMAN, J. W.
HEMOGLOBIN AT HIGH ALTITUDE AS RELATED TO AGE
A64-80045

ALVEOLAR AND ARTERIAL GAS TENSIONS AS RELATED TO ALTITUDE AND AGE A64-80170

ADAPTATION OF RESPIRATORY SYSTEM DURING ALTITUDE ACCLIMATIZATION AS RELATED TO AGE AND EXERCISE

A64-80664

TERRY, J. M.
VACUUM ADAPTATION OF BASEPLATE MATERIALS TO
DENTAL CASTS
SAM-TDR-64-51
N64-31054

TERSKOV, N. A.

AUTOMATICALLY CONTROLLED CULTIVATION OF ONE CELL
ORGANISMS IN CLOSED ECOLOGICAL SYSTEMS, EXAMINING
TRANSITION PROCESSES DURING GROWTH OF CULTURES
A64-25615

CULTIVATION OF UNICELLULAR ORGANISMS FOR USE IN CLOSED ECOLOGICAL SYSTEM N64-23781

TERZAGHI, J.
TEST METHOD FOR STUDYING PHYSIOLOGICAL EFFECTS OF
FLUCTUATING CARBON MONOXIDE EXPOSURES FROM
MULTIPLE SOURCES
A64-80075

THADDEUS, P.

MARINER II SPACE PROBE STUDIES OF MARS AND VENUS
ATMOSPHERES A64-81044

THEMS, G.

OXYGEN TENSION DETERMINATION - OXYGEN DIFFUSION IN

GREY MATTER OF BRAIN AT CAPILLARY LEVEL

N64-14583

THIEDE, F. C.
IMPACT TOLERANCE OF GUINEA PIGS RELATED TO POSTURE
AND CONTAINMENT A64-14002

IMPACT AND SUPPORT RESTRAINT CONDITIONS EFFECT ON PATHOLOGY AND PHYSIOLOGY OF GUINEA PIGS

A64-25551

HIELE, H.
HEMATOLOGICAL AND VITAMIN C DISTURBANCES IN MEN
AND MOMEN DURING BENZENE POISONING AS AFFECTED BY
FOLIC ACID AND CYSTEINE
A64-80750

THIESEN, J. W.
PSYCHOPHYSIOLOGICAL TEST PROCEDURE FOR OBJECTIVE
MEASUREMENT OF STRESS INTENSITY

A64-8071

THIESSEN, J. W.
ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS

OF THERMAL RADIATION AND RADIATION SOURCES, AND PROTECTION AGAINST BIOLOGICAL EFFECTS TDCK-33500 N64-32018

THILENIUS, O. G.
PULMONARY CIRCULATION AND CARDIAC OUTPUT OF
RESTING UNANESTHETIZED DOGS IN RESPONSE TO ACUTE
HYPOXIA
A64-80338

THOMAS, A. A.

PROTECTIVE EFFICACY OF VITAMIN B 6 CONGENERS,
PYRIDOXINE AND PYRIDOXAMINE, IN THE THERAPY OF
ACUTE 1,1-DIMETHYLHYDRAZINE /UDMH/ INTOXICATION
A64-10250

ENVIRONMENTAL TOXICITY OF SPACE CABIN ATMOSPHERE N64-24616

THOMAS, C. E.

BIOCHENICAL TEMPLATING OF DESOXYRIBONUCLEIC ACIDRIBONUCLEIC ACID INTO PROTEIN
JPRS-17811

N64-10566

THOMAS, D. D.
AIRCRAFT ACCIDENT PREVENTION PROGRAM OF FAA
SAE PAPER 854D A64-20234

THOMAS, D. M.
COLOR VERSUS SHAPE CODING IN INFORMATION DISPLAYS
A64-80603

THOMAS. 6. B.
BIOCYBERNETICS CONCEPT FUSING METHODS OF FEEDBACK
ENGINEERING WITH METHODS OF BIOLOGIST
INVESTIGATING CARDIOVASCULAR MODELS AND CALCIUM
DYNAMICS A64-25317

APPLICATION OF BIOCYBERNETICS TO BIOLOGICAL PROBLEMS OF MANNED SPACE FLIGHT

A64-81035

APPLICATION OF STATISTICAL DECISION THEORY TO DESIGN OF EXTRATERRESTRIAL LIFE DETECTORS NASA-CR-58531 N64-28939

THOMAS, H. D.
CARDIAC OUTPUT AND OXYGEN CONSUMPTION AS RELATED
TO LACTATE AND PYRUVATE IN ARTERIAL BLOOD DURING
EXERCISE IN NORMAL AND HEART DISEASED SUBJECT
A64-B0990

THOMAS, J. O.

MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH
RESOLUTION SENSOR IMAGERY
AMRL-TOR-64-29

N64-26960

THOMAS, R. G.
PROCEDURES AND EQUIPMENT USED TO EXPOSE SMALL
ANIMALS TO AEROSOLS OF FISSION PRODUCTS
LF-11
N64-11206

PROCESSING DATA ON DISTRIBUTION & EXCRETION OF INHALED FISSION PRODUCTS WITH AUTOMATIC READOUT COUNTING SYSTEM LF-13 N64-14750

THOMAS, R. S.
CARBON DIOXIDE REMOVAL, CONVERSION, AND DXYGEN
REGENERATION N64-24627

THOMPSON, A. B.

GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH
ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A
SPACE-STATION LABORATORY
AIAA PAPER 63-140

A64-18471

THOMPSON, J. M.

LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE
DISPOSAL, OXYGEN PRODUCTION, AND FOOD SUPPLY
A64-81223

THOMPSON, L. W.
AGING EFFECT ON PERFORMANCE OF AUDITORY AND VISUAL
VIGILANCE TASKS AT VARYING SPEEDS
PHS-G-GM-05385
A64-80129

THOMPSON, M. F.
EXPERIMENT FOR DETECTION OF AQUEOUS CARBONACEOUS
NATURE ON MARS /GULLIVER/
A64-24950

GULLIVER PROGRAM - MARS EXTRATERRESTRIAL LIFE
DETECTION AND ANALYSIS
NASA-CR-55511 N64-227

RADIOISOTOPIC BIOCHEMICAL PROBE FOR DETECTING EXTRATERRESTRIAL LIFE NASA-CR-55318 N64-22756

TEST MICROORGANISMS, BASAL MEDIA, ANTIMETABOLITES, AND RADIATION DETECTION INSTRUMENTATION FOR EXTRATERRESTRIAL LIFE PROBE
NASA-CE-56532
N64-22793

THOMPSON, M. O.

MEDICAL AND BIOENGINEERING PROBLEMS IN LIFTING
BODY DESIGN INCLUDING VISIBILITY AND CONTROL

A64-24714

PILOT PERFORMANCE REQUIREMENTS IN LIFTING BODY AND REENTRY VEHICLES IN HYPERSONIC AND SUBSONIC FLIGHTS N64-22440

THOMSON, R. A. E.
MICROMAVE EXPOSURE OF DOGS CAUSES LEUCOCYTE
CHANGES RELATED TO FREQUENCY, FIELD INTENSITY
AND EXPOSURE DURATION
A64-25543

EFFECTS OF MICROWAVE EXPOSURE ON HEMATOPOIETIC SYSTEM IN DOG A64-80830

MICROWAVE MODIFICATION OF X-RAY LETHALITY IN MICE RADC-TDR-63-352 N64-12270

THOR, D. H.
MOON ILLUSION TESTED UNDER SIMULATED CONDITIONS
PROVIDING VARIETY OF VISUAL CUES

CIRCADIAN ACTIVITY AND NOISE COMPARISONS OF TWO CONFINED GROUPS WITH AND WITHOUT REFERENCE TO CLOCK TIME A64-80747

TIME PERCEPTION DURING TWO-WEEK CONFINEMENT AS AFFECTED BY AGE, SEX, IQ, AND TIME OF DAY A66-R0779

THORBURN, I. O.
ELECTROCARDIOGRAMS OF MARATHON RUNNERS

A64-80951

THORELL, B.
FREE STREAM FRACTIONATION OF CELLS IN RAT BONE
MARROW N64-22857

THORNTON, R.

CARDIOVASCULAR RESPONSE TO BREATHHOLDING DURING
PHYSICAL EXERCISE IN ATHLETE AND UNTRAINED
INDIVIDUAL
A64-81243

THURNER, F.
PSYCHOPHYSICAL SCALES FOR KINESTHETIC WIDTH
MEASUREMENT A64-81089

TICKNER, E. G.
AUSCULTATORY VERSUS DIRECT PRESSURE MEASUREMENTS
FOR NEMTONIAN FLUIDS AND BLOOD IN SIMULATED
ARTERIES
NASA-CR-56470
N64-22425

TIEDEMANN, J. G.
PERFORMANCE OF SINGLE & MULTIPLE VOICE RADIO
TRANSCRIBERS WORKING UNDER THREE SPEECH-TO-NOISE
RATIOS
USAPRO-TRN-135
N64-21741

TIKHONOVA, L. I.

REMOVING RADIOACTIVE ISOTOPES FROM ORGANISMS BY
CHEMICAL MEANS - CHELATE AND OTHER COMPLEXES
JPRS-18775
N64-10456

TIKHOV, G. A.
ASTROBOTANY STUDIES SUGGESTING PRESENCE OF PLANTS
ON MARS
A64-80528

TIKHOV, T. S.
INDUSTRIAL SAFETY IN PRODUCTION OF METALLIC
THALLIUM AND ITS SALTS
JPRS-25206
N64-23257

TILLET. M.
HUMAN AND ANIMAL TOLERANCE OF HEAT
FTD-TT-63-650/164

N64-16383

TILLISCH, J. H.
CASE REPORT ON 36-YEAR OLD COMMERCIAL PILOT
SUFFERING FROM RHEUMATOID ARTHRITIS AND PROBLEM OF
THERAPY RELATIVE TO FLYING SAFETY

A64-10262

TIMAKOV, V. D.

ROLE OF CYBERNETICS AND PLASTICS IN MEDICINE
FTD-TT-63-732/184 N64-14333

ROLE OF CYBERNETICS IN MEDICINE - COMPUTERS FOR DIAGNOSIS OF DISEASES AND ANALYSIS OF PATIENT CONDITION N64-14334

USE OF PLASTIC MATERIALS IN MEDICINE

N64-14335

TIMIRAS, P. S.

BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS
DURING HIGH ALTITUDE EXPOSURE

A64-13754

COLD EXPOSURE EFFECTS ON BRAIN CHEMISTRY AND ELECTROSHOCK SEIZURES A64-80102

TIMOFEEV, N. N.
ARTIFICIAL HIBERNATION IN SPACE STUDIES, EXAMINING
METHODS FOR ACHIEVING DEEP HYPOTHERMY STATE IN
DOGS AND RATS
A64-25590

TIMOFEYEV-RESOVSKIY, N. V.
BIOLOGICAL CONTAMINATION BY RADIOACTIVE ISOTOPES
FTD-TT-63-664/1 N64-22049

SELF-PURIFICATION OF CESIUM 137 FROM WATER IN WEAKLY RUNNING RESERVOIRS N64-29033

TIMOFEYEY, N. N. ARTIFICIAL HIBERNATION AND SPACE BIOLOGY

N64-23756

TIPPELMANN, M.
BEHAVIOR OF EOSINOPHILIC BLOOD CELLS WITH
DIFFERENT TESTS IN SAME INDIVIDUAL - BIBLIOGRAPHY
DVL-310 N64-19799

TISCHER, R. G.
EXTRACELLULAR POLYSACCHARIDES PRODUCED BY
CHLORELLA AND OTHER ALGAE USED IN CLOSED
ECOLOGICAL SYSTEMS AS RELATED TO RECYCLING
TIME OF GROWTH

A64-80784

EXTRACELLULAR POLYSACCHARIDE PRODUCED BY ALGAE AND INFLUENCE ON RECYCLING IN LIFE SUPPORT SYSTEM N64-29722

FACTORS AFFECTING CHLORELLA GROWTH IN ELECTROCHEMICALLY DEGRADED HUMAN WASTE AD-447801

N64-31315

QUANTITATIVE ANALYIS OF POLYSACCHARIDES PRODUCED BY FRESH WATER ALGAE N64-33019

TITIEVSKAIA, R. L.
ISOMETRIC CONTRACTION OF HAND AND EFFECT ON BLOOD
SUPPLY TO FOREARM A64-81311

TITLYANOVA, A. A.

EFFECTS OF CESIUM CONCENTRATION IN FEED SOLUTION
AND IN SOIL ON ACCUMULATION IN PEA PLANTS & WHEAT
JPRS-22656 N64-13006

TITOV, G.
WEIGHTLESSNESS AND OTHER INFLUENCES DURING 24 HOUR
MANNED SPACE FLIGHT
A64-80522

TITOVA, L. K.

MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF
VESTIBULAR APPARATUS OF ANIMALS IN CHANGING
GRAVITATIONAL FIELD
N64-11862

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837 TIURIN, A. M.
HIGH ALTITUDE EFFECT ON DXYGENATING PROCESS IN
ATHLETES
A64-81276

TKACH, V. K.

ORIGIN & DEVELOPMENT OF RADIATION LESIONS IN BLOOD
PROTEIN - INVESTIGATION USING THERMAL PROPERTIES
OF BLOOD SOLUTIONS

N64-12777

TKACHENKO, V. G.
EXERCISE AND SPACE THRESHOLD OF THE TACTILE
DIFFERENTION
A64-80192

TKACHOV, F. T.

PRECEDING MUSCULAR ACTIVITY EFFECTS ON CAPACITY OF
UNFATIGUED MUSCLES IN YOUNG AND OLD SUBJECTS
A64-80600

EFFECT OF PRIOR MUSCLE EFFORT ON SYMMETRIC MUSCULAR STRENGTH AND ENDURANCE JPRS-25593 N64-26

TOBIAS, C. A.
COURSE OF RADIATION SICKNESS IN PROTON IRRADIATED
MICE
N64-15203

ALPHA PARTICLE AND PROTON BEAMS IN RADIATION THERAPY OF PITUITARY GLAND TUMORS AND ADENOMA N64-15205

RADIATION SICKNESS IN MAMMALS AND RELATIVE BIOLOGICAL EFFECT OF HIGH ENERGY PROTONS

N64-22866

EFFECTS OF ION BOMBARDMENT OF EMBRYONIC SITES ON WING GROWTH OF CONFUSED FLOUR BEETLE
N64-27513

TOBIAS, J. V.
FATIGUING TONE EFFECT INVESTIGATED AS FUNCTION OF
LEVEL OF MENTAL ACTIVITY A64-1330;

ANNOTATED BIBLIOGRAPHY OF TRANSLATIONS OF FOREIGN LANGUAGE ARTICLES ON NYSTAGMUS, VESTIBULAR STIMULATION, & CORIOLIS EFFECTS

N64-10432

BINAURAL BEAT PERCEPTION STUDY USING RELATIVE PROCEDURES CARI-63-17 N64-1441

TOBIAS, P.
ENTOPIC VISUAL PHENOMENA /PHOSPHENE/ PRODUCED BY
ACCELERATION STRESS A64-80178

TOBIAS, P. R.
LOW LEVEL RADIATION EFFECTS ON INTEGRATED HUMAN
BEHAVIOR AND ORGAN SYSTEMS A64-12984

TODA, M.

DECISION THEORY - MEASUREMENTS OF SUBJECTIVE PROBABILITY AND UTILITY PROBLEMS
ESD-TDR-63-622

N64-16074

MICROSTRUCTURE OF GUESS PROCESSES - PROBABILITY
LEARNING
AD-600474
N64-21312

LOGIC SYSTEMS - THEORY OF STRUCTURES AND FUNCTION IN SCIENCE OF BEHAVIOR ESD-TDR-64-193 N64-21533

HUMAN BEHAVIOR IN FUNGUS EATER GAMES ESD-TDR-64-237 N64-22267

TOKAREV, IU. N.
ASTRONAUT EFFICIENCY IN SIMULATED SPACECRAFT
ENVIRONMENT WITH RESPECT TO WORK AND REST
CONDITIONS, SPACE SUIT CONFINEMENT AND FLIGHT
TASKS
A64-25591

TOKAREV, YU. N.
PHYSICAL EFFICIENCY OF ASTRONAUTS IN SPACECRAFT
ENVIRONMENT
N64-23757

UKARSKAYA, Z. B.

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN
FRACTION AFTER PLUTONIUM-239 INJURY

N64-12571

TOKITA, T.
VESTIBULAR FUNCTION - DECLINE IN DURATION OF POSTROTATORY NYSTAGMUS THROUGH TRAINING WITH REPEATED MOTIONS
A64-

TOLIVER, W. H., SR.

GAS CHROMATOGRAPHY FOR ANALYSIS OF PERMANENT AND
VOLATILE ORGANIC GASES IN CLOSED CABIN ATMOSPHERES

TOMBAUGH, C. W. PHOTOGRAPHIC AND VISUAL OBSERVATIONS MADE AT NEW MEXICO STATE UNIVERSITY OBSERVATORY N64-16327

HYPOXIC EFFECT ON ELECTROENCEPHALOGRAM AND ON EXCITABILITY OF CAROTID SINUS CHEMORECEPTORS UNDER DIFFERENT CONDITIONS OF OXYGEN DIFFUSION A64-80752

TONKONOGAYA, YE. P.
SPATIAL AND QUANTITATIVE CONCEPTS IN FOURTH
THROUGH SIXTH GRADE STUDENTS N64 N64-25150

TOOKER, R.
CARBON TETRACHLORIDE POISONING AS RELATED TO
TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND FATTY ACIDS IN RAT LIVER A64-80730

PERCEPTUAL JUDGMENT OF LATERALIZATION OF SOUND IMAGES PRODUCED BY BINAURAL INTERACTION OF CLICKS WITH CLICKS OR CLICK PAIRS A64-2133

INITIAL REFLEX COMPONENT OF HYPERVENTILATION IN FIRST SECONDS OF PHYSICAL EXERCISE A64-81227

TORRANCE, R. W.
BLOOD PRESSURE EFFECT UPON THE DISCHARGE RATE OF
CHEMORECEPTOR DURING HYPOXIA AND HYPEROXIA WITH
MODIFICATION BY ADRENALINE AND NORADRENALINE

BLOOD PRESSURE EFFECT ON CHEMORECEPTOR DISCHARGE TO HYPOXIA AND MODIFICATION BY SYMPATHETIC-ADRENAL SYSTEM IN CAT A64-81245

TORRES, J. C. CARDIOVASCULAR PHYSIOLOGY UNDER HYPOTHERMIA A64-80162

TOSAN. J. B. CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13465

TOTH, F.
CHEMICAL METHODS TO PROTECT BIOLOGICAL SYSTEMS
AGAINST IONIZING RADIATION
N64-29 N64-29074

VESTIBULAR INFLUENCE ON MUSCLE TONUS VIA GAMMA EFFERENT MOTOR SYSTEM IN CAT A64-B0240

TOWNER, A. A. SURGERY FOR MASSIVE UPPER GASTROINTESTINAL HEMORRHAGE IN FLYING PERSONNEL

TOWNSEND, F. M.
PATHOLOGY INVESTIGATION OF AIRCRAFT ACCIDENTS
A64-464-80132

TRAKS. E.
CORONARY CIRCULATION AND HEART METABOLISM IN MAN
EXPOSED TO DRY HOT ENVIRONMENT
A64-8046 A64-80465

QUINONES IN PHOTOSYNTHETIC REACTIONS OF ISOLATED CHLOROPLASTS AFCRL-64-760 N64-33104

TREDICI, T.

EFFECTS OF HIGH PARTIAL PRESSURES OF OXYGEN ON THE
VISUAL SYSTEM OF MATURE ANIMALS /OCULAR HYPERDXIA/
A64-10254

TREISMAN, A. M. SELECTIVE ATTENTION IN MAN - BEHAVIORAL RESEARCH

TREISMAN, M.
WEBERS LAW AND NOISE - DISCRIMINATION OF
BRIGHTNESS AND OTHER DIMENSIONS

A64-80810

TREMBLAY, H. G.
HARMONIC ANALYSIS OF HUMAN PERFORMANCE OF TRACKING
IN T-33 AIRCRAFT, IN CENTRIFUGE SIMULATION, AND IN
STATIONARY SIMULATION NADC-AC-6406 N64-28696

TREXLER, P. C.
GNOTOBIOTIC TECHNIQUES DEVELOPED TO PROVIDE HIGH
ORDER OF STERILITY FOR FABRICATION OF STERILE

TRIBULEY, G. P.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC BACTERIA, USING MICROBIOLOGY AND CYTOLOGY
A64-25

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

TRITES, D. K.
AIR TRAFFIC CONTROL SPECIALIST TRAINING
PERFORMANCE PREDICTIONS BASED UPON APTITUDE TEST,
PREEMPLOYMENT AND JOB RELATED EXPERIENCE
A64-1913:

AIR TRAFFIC MANAGEMENT - IMPLICATIONS OF AGE AT ENTRY FOR TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS A64-1

EXPERIENCE AND APTITUDE TESTS FOR PREDICTION OF TRAINING AND JOB PERFORMANCE OF AIR TRAFFIC CONTROL SPECIALISTS CARI-63-31 N64-29 N64-29848

ITSKIY, V. L. DISRUPTIONS OF NATURAL IMMUNITY IN IRRADIATED ANIMALS AND METHODS OF REESTABLISHING N64-17169

TROMOVITCH, T. A. CONTACT DERMATITIS OF HANDS OF PILOT DUE TO WEARING UNLINED FLIGHT GLOVES, NO. B3A A64-80098

TROMP, S. W.
EFFECT OF WEATHER AND CLIMATE ON PHYSIOLOGY A64-80420

TROPAREVSKY. A.
THIN LAYER CHROMATOGRAPHIC SEPARATION OF VITAMIN D AND CHOLESTEROL N64-32016

TROQUET, J.
PULMONARY DYNAMIC WORK MEASUREMENT IN STANDING AND
RECUMBENT POSITION A64-80058

BIOLOGICAL CELL SUBSTANCE CHANGES FROM INJURY AND EXCITATION - STAINABILITY JPRS-21894 N64-10517

TROSPER, T. ELECTRONIC POLARIZABILITY CHANGES OF EXCITED ELECTRONS IN PHOTOSYNTHETIC AND MODEL SYSTEMS N64-19465

HYDRAZINE EFFECT ON LIVER LIPIDS

TRUFFERT. L. PROLONGED CARBON MONOXIDE POISONING IN RABBIT, RAT AND GUINEA PIG

- TRUKHACHEV, A. A.
 INHIBITING CAPACITY OF DEOXYRIBONUCLEASE ON
 ADENOVIRUSES IN TISSUE CULTURE
 N64-12884
- TRUMBO, D.

 FACILITATIVE INTERACTION BETWEEN TWO SEPARATE
 CONTROL ELEMENTS MANIPULATED SIMULTANEOUSLY,
 CALLED RESPONSE-RESPONSE COMPATIBILITY, APPLIED TO
 TWO-HAND CRANKING TASK

 A64-26851

FOOT PEDAL DESIGN AFFECTING OPERATION TIME
A64-80092

- TRYGG, L. E.

 BIBLIOGRAPHY ON ENGINEERING PSYCHOLOGY, TRAINING
 PSYCHOLOGY, ENVIRONMENTAL STRESS, SIMULATION
 TECHNIQUES, AND PHYSICAL ANTHROPOLOGY
 AD-600804
 N64-22515
- TSETLIN, M. L.

 MATHEMATICAL MODEL FOR PHYSIOLOGICAL PHENOMENA CYBERNETICS

 N64-12513

STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS
N64-12526

HUMAN MUSCLE SYNCHRONIZATION WHILE MAINTAINING FIXED POSITION
JPRS-24606 N64-21

- TSEYTLIN, P. I.

 PHYSICAL AND CHEMICAL PROPERTIES OF SINGLE-STRAND
 DESOXYRIBONUCLEIC ACID

 N64-18329
- TSOFIN, L. M.
 PARTICIPATION OF ANIONS IN FUNCTION OF EXCITABLE
 TISSUES N64-28040
- TSUCHIYA, H. M.
 EFFICIENCY IN PHOTOSYNTHESIZING ALGAL CULTURES
 INCREASED, USING PHOTOSYNTHETIC GAS EXCHANGER WITH
 FLASHING LIGHT EFFECT
 A64-16191

CONTINUOUS PROPAGATION OF MICROORGANISMS - LIFE CYCLE STUDIES INVOLVING AGE DISTRIBUTION

N64-11436

- TSUIKI, Y.
 VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED
 QUANTITATIVELY A64-80255
- TSUKKERMAN, I. I.
 VISUAL INFORMATION PROCESSING IN RETINA BY OPTIMAL
 ENCODING CYBERNETICS N64-12523
- TSUNG-HSIEN, C.
 BONE MARROW TRANSPLANTATION EFFECT ON DOGS WITH
 ACUTE RADIATION SICKNESS
 JPRS-22591
 N64-12149
- TSURUPA, D. I.

 ULTRASONICS FOR SOFT TISSUE AND ORGAN STUDY DIAGNOSIS OF PATHOLOGICAL PROCESSES

 N64-30238
- TSYPIN, S. G.

 RADIATION-SHIELDING OF HUMAN BEINGS FROM SOLAR
 FLARE, RADIATION BELT, AND GALACTIC COSMIC
 IONIZING RADIATION DURING SPACE FLIGHTS
 JPRS-23306

 N64-1532
- TUCKER, G. E., JR.

 RADIOLOGICAL SAFETY CONSIDERATIONS EVALUATION OF STORAGE, HANDLING, & TRANSPORTATION OF PLUTONIUM-BEARING WEAPONS
 SC-4973/RR/

 N64-14046
- TUCKER, L. R.

 THREE-MAY FACTOR ANALYSIS OF MULTITRAITMULTIMETHOD MATRIX APPLIED TO PSYCHOLOGICAL
 TEST RESULTS
 AD-600302 N64-29659
- TULECKE, W.

 NUTRIENT REQUIREMENTS, PROTEIN CONTENT, AND
 ABILITY TO FIX CARBON DIOXIDE OF PLANT TISSUE
 CULTURES
 AMRI-TDR-63-124
 N64-17864

TUMANYAN, M. A.
CHEMOTHERAPY FOR RADIATION SICKNESS
JPRS-27220

N64-33578

TUMANYAN, V. G.
INTERPRETATION OF NUCLEOTIDE SEQUENCE IN CONVEYING RIBONUCLEIC ACIDS
JPRS-24086
N64-17976

RIBONUCLEIC ACID IN PROTEIN SYNTHESIS

N64-18330

- TUNE, G. S.
 REVIEW OF PSYCHOLOGICAL EFFECTS OF HYPOXIA
 A64-81146
- TURAKULOV, YA. KH.
 MEDICINE, BIOLOGY, & AGRICULTURE STUDIES USING
 RADIDACTIVE ISOTOPES AND NUCLEAR RADIATIONS
 AEC-TR-6298
 N64-20823
- TURANOV, V. V.

 ROLE OF CENTRAL NERVOUS SYSTEM IN ADAPTATION TO
 HYPOXIA

 A64-81258

ADAPTATION AND PHYSIOLOGICAL RESPONSE OF HUMAN ORGANISM TO HYPOXIA AT HIGH ALTITUDE

A64-81259

- TURELL, D. J.
 PULMONARY FUNCTION, OXYGEN CONSUMPTION AND PULSE
 RATE RELATED TO EXCESS BODY WEIGHT DURING EXERCISE
 A64-R0728
- TURNBOW, J. W.
 AIRCRAFT SEAT DESIGN FOR REDUCTION OF CRASH
 INJURIES TO PASSENGERS
 SAE PAPER 851A A64-20759
- TURNER, D. P. W.
 PRESSURE SUIT WEARING EFFECT ON RATE, AMPLITUDE
 AND EFFICIENCY OF WORK IN NORMAL AND REDUCED
 TRACTION ENVIRONMENTS
 A64-22815
 - PRESSURE SUIT WEARING AS RELATED TO WORK OUTPUT,
 HEAT PRODUCTION, AND SUIT AND SYSTEM DESIGN
 A64-80688
- TURNER, E. D.

 RELATION OF HUMAN PERFORMANCE IN AUDITORY
 VIGILANCE TO CHANGES IN REINFORCEMENT
 TR-19

 N64-27097
- TURNER, F. B.
 INCREASED RADIATION IN SOIL, PLANTS, AND ANIMALS
 IN SOUTHERN NEVADA
 UCLA-518
 N64-12898
- TURNER, J. M.
 RESPIRATORY THORACIC ABDOMINAL MECHANICS IN MAN
 A64-80312
- TURNER, K. A.
 CAROTID SINUS DEPRESSOR REFLEXES OF DOG DURING
 HYPOTHERMIA A64-81062
- TUROVSKIY, V. D.
 BERYLLIUM TOXICOLOGY, SYMPTOMATOLOGY OF
 AFFECTIONS, AND INDUSTRIAL HYGIENE FOR BERYLLIUM
 PRODUCTION
 FTD-TT-63-578/162
 N64-22352
- TURRI, C.
 PROTEIN AND LIPID CHANGES OF BLOOD SERUM
 DURING NORMAL AGING IN MAN
 A64-81070
- TURSUNDY, Z. T.
 CORTICAL REGULATION OF WATER & SALT METABOLIC
 BALANCE
 JPRS-22523
 N64-123
- TURTON, G.
 THORACIC RESPIRATION AND MODE OF INSPIRATION
 INFLUENCE ON IMPEDANCE PNEUMOGRAPH CALIBRATION
 SAM-TDR-63-100
 N64-17312
 - TISSUE RESISTIVITY IN VIVO AND TRANSTHORACIC IMPEDANCE SAM-TDR-64-5 N64-21803

TURUSBEKOV, B. T.
PHASES OF ADAPTATION PROCESS TO HIGH ALTITUDE A64-81273

TUTOCHKINA, L. T.

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC
WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE

BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS AFTER SPACE FLIGHT

METABOLIC INDICES IN ASTRONAUTS

N64-23747

TUTTLE, L. W. TRANSFER OF STRONTIUM 90 THROUGH MILK IN LACTATING MONKEYS AND RATS UR-635 N64-10616

STRONTIUM 90 TOXICITY IN RAT EMBRYO

N64-18348

N64-22879

RETENTION OF STRONTIUM 90 IN RATS AS FUNCTION OF DOSE, AGE, & ADMINISTRATION RATE 118-642 N64-20715

RELATIONSHIP BETWEEN RESPIRATORY WORK AND ARTERIAL CARBON DIOXIDE TENSION A64-80456

TYNYBEKOV, A. T.
NORMAL VALUE OF BLOOD PRESSURE IN RESIDENTS OF
KIRGIZIA MOUNTAINS A64-8 A64-81284

TYSON, J. W.

NASA-CR-53806 N64-23393 TYUKHTIN. V. S.
MENTAL REFLECTION PROCESSES IN LIGHT OF

EXOBIOLOGY - ANNOTATED BIBLIOGRAPHY

CYBERNETICS - PSYCHOLOGY JPRS-23370 N64-15417

TZU-SEN, C.
BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS
BEFORE AND AFTER COLD ADAPTATION

N64-228

U

UDELHAN, H. D. TETRACHLORETHYLENE INGESTION PRODUCING ACUTE BRAIN SYNDROME A64-80893

MEDICAL PROBLEMS OF CIVILIAN AIR TRANSPORT A64-80158

POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS SYSTEM STABILITY A64 A64-80254

ELECTROMYOGRAM MEASUREMENT OF BIOELECTRIC CURRENT AS MEASURE OF HUMAN MUSCLE TONUS AND EFFECTS OF WEIGHTLESSNESS AND INCREASED ACCELERATION STRESS

UHMAN, S. E. G.
ANALYSIS AND SYNTHESIS OF SPEECH, AND USE OF
PROCEDURES FOR STUDYING HUMAN SPEECH PROCESSES N64-17882

UHR. L. MEPROBAMATE EFFECTS ON CONTINUOUS ATTENTION BEHAVIOR IN RELATION TO ANXIETY AND SHOCK A64-R0150

ULMER. F. CIRCULATORY AND RESPIRATORY CHANGES IN DOG DURING HYPERTHERMIA OF HEAD OR WHOLE BODY A64-80195

ULRICH, C. E. RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-R0657

ULUBEKOVA, M. V. OXYGEN CONCENTRATION EFFECT ON PHOTOSYNTHESIS AND RESPIRATION RATE IN CHLORELLA PYRENOIDOSA, SCENEDESMUS OBLIQUUS AND ELODEA CANADENSIS

ULVEDAL, F.
STEROID AND CATECHOLAMINE EXCRETION OF PILOTS IN SPACE CABIN SIMULATOR A64-12938

ERYTHROPOIESIS RESPONSE TO EXPOSURE OF ATMOSPHERE WITH INCREASED DXYGEN PARTIAL PRESSURE A64-22055

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE,
DXYGEN RICH ATMOSPHERE A64-8032 A64-80323

INCREASED OXYGEN PARTIAL PRESSURE EFFECT ON A64-80625 HEMATOPOTESTS

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN SAM-TDR-63-52

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS

SAM-TDR-63-59 PHYSIOLOGICAL EFFECTS OF EXPOSURE TO INCREASED

DXYGEN TENSION SAM-TDR-63-64 N64-16640

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

ULYANINSKIY, L. S.
RADIATION DAMAGE TO OVARIES, AND ELECTRICAL
STIMULATION OF HEART IN MICE - BIBLIOGRAPHY JPRS-18045 N64-10453

UMSTEAD, M. E.
ORGANIC CONTAMINANTS - ATMOSPHERE ABOARD SUBMARINE
N64-19393

ANALYZER FOR DETECTION OF ORGANIC COMPOUNDS IN ATMOSPHERE OF NUCLEAR SUBMARINE NRL-6064 N64-19407

UNGER. H. R. SURGERY FOR MASSIVE UPPER GASTROINTESTINAL HEMORRHAGE IN FLYING PERSONNEL A64-80869

URBAKH. V. YU. CORRELATION OF AMINO ACID RADICALS IN PROTEIN MOLECULES N64-18518

VISUAL SIGNAL-FROM-NOISE DETECTION BY MONKEY UNDER INFLUENCE OF CHLORPROMAZINE HYDROCHLORIDE AND A64-80906 SODIUM PENTOBARBITAL

SCIENTIFICALLY TRAINED ASTRONAUTS IMPORTANT FOR LUNAR AND PLANETARY EXPLORATION

URINSON, R. M.
METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED SENSITIVITY

URMER, A. H.
LIGHTING REQUIREMENTS OF GENERAL CREW STATIONS FOR
MANNED SPACECRAFT A64-10630

USACHEY, Y. V.
SENSORIMOTOR RESPONSE OF MAN IN EVALUATING WEIGHTS
UNDER INCREASED GRAVITY OF ACCELERATION

USAMI, M.
VESTIBULAR REACTIONS IN REVOLVING ROOM OBSERVED QUANTITATIVELY A64-80255 EFFECT OF ROTATIONAL STIMULUS ON HUMAN RESPIRATION T-84-J N64-33496

USELLER, J. W.
PILOT REACTION TO HIGH SPEED ROTATION
NASA-RP-133

N64-15841

USHAKOV, A. S.
PROBLEM OF SUPPLYING SPACECREW WITH FOOD OF ANIMAL ORIGIN

064-11672

USPENSKAIA, M. S.

SPACE FLIGHT AND TRAINING EFFECTS ON METABOLIC
WASTE CONTENT OF ASTRONAUTS BLOOD AND URINE

A64-2558

USPENSKAYA, M. S.
BIOCHEMICAL INVESTIGATION OF BLOOD & URINE OF DOGS
AFTER SPACE FLIGHT N64-11673

METABOLIC INDICES IN ASTRONAUTS

N64-23747

USPENSKII, L. N.
DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD
VOSTOK V AND VOSTOK VI SPACESHIPS

A64-18573

USPENSKIY, L. N.
MEASUREMENT OF RADIATION DOSES RECEIVED BY
COSMONAUTS IN VOSTOK III AND VOSTOK IV
SPACECRAFT FLIGHTS
N64-21642

UTIAMYSHEV, R. I.
SPUTNIK II AND III SATELLITE INSTRUMENTATION FOR
MEASURING BIOLOGICAL AND PHYSIOLOGICAL EFFECTS OF
SPACE FLIGHT
A64-25580

UTSUMI, S.

HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY
CENTRAL NERVOUS SYSTEM IN RABBIT

A64-80239

V

VAILEVA, V. E.

PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF
INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON
ALGAE
FTD-MT-63-49
N64-18672

VALDMAN, A. V.

EFFECTS OF MOLECULAR WEIGHT AND DOSAGE ON
COAGULATION INHIBITION BY HIGH-WEIGHT POLYMERS IN
RABBITS
N64-31343

VALDSHTEYN, E. A.
CYSTEAMING PROTECTIVE ACTION AGAINST RADIATION
INJURY N64-13695

VALENKO, E. A.
BRAIN OXYGEN TENSION IN DOG DURING POSITIVE,
NEGATIVE, AND TRANSVERSE ACCELERATION

A64-80359

VALENSTEIN, E. S.
REPETITIVE TURNING ON AND OFF OF REINFORCING BRAIN
STIMULATION EXAMINED FOR LOCATION OF AVERSIVE
NEURAL SYSTEMS
A64-26013

PERFORMANCE OF RAT PROVIDED WITH CONTINUOUS OPPORTUNITY TO OBTAIN REINFORCING BRAIN STIMULATION N64-17498

VALENSTEIN, T.

REPETITIVE TURNING ON AND OFF OF REINFORCING BRAIN STIMULATION EXAMINED FOR LOCATION OF AVERSIVE NEURAL SYSTEMS

A64-26013

VALENTINE, R. C.
ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL
FUEL CELL REACTIONS N64-19311

VALERSHTEYN, R. A.
MATHEMATICAL MODEL FOR NERVOUS DEFENSES AGAINST
STIMULATION AND INHIBITION N64-12515

VALEVA, S. S. INFLUENCE OF SPACE FLIGHT FACTORS ON HEREDITY &

DEVELOPMENT IN ACTINOMYCETES AND PLANTS

N64-11682

VALLENTYNE, J. R.
ENVIRONMENTAL BIOPHYSICS, ORIGIN OF LIFE AND
EXTRATERRESTRIAL MICROBIAL LIFE
A64-BLORG

VALLYATHAN, N. V.
UTILIZATION OF FREE FATTY ACIDS IN MUSCLE OF
PIGEON DURING EXERCISE A64-80734

VALUYEVA, M. N.
HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO
PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE &
OTHER PHYSIOLOGICAL CHANGES N64-31459

VAN CITTERS, R. L.
CONTINUOUS RECORDINGS OF HEART BEHAVIOR IN BABDONS
DURING SPONTANEOUS ACTIVITY, POSTURAL CHANGES, AND
EXERCISE
A64-80087

COMPUTATION OF BLOOD FLOW VELOCITY FROM PRESSURE PULSE COMPARED WITH MEASUREMENT BY ULTRASONIC FLOWMETER A64-80259

BLOOD VELOCITY TELEMETERED FROM UNRESTRAINED EXERCISING ANIMALS A64-80916

VAN CLEAVE, C. D.
FUNCTIONAL AND BEHAVIORAL EFFECT OF IRRADIATION ON
NERVOUS SYSTEM N64-10934

VAN DE WOESTIJNE, K. P.
ARTERIAL AND END-EXPIRATORY CARBON DIOXIDE
PRESSURE, RESPIRATORY VOLUME, AND PHYSIOLOGICAL
DEAD SPACE WITH CHANGES IN BODY POSITION
A64-80016

VAN DEN BRENK, H. A. S.
PULMONARY DAMAGE AND CHANGES IN SULPHYDRYL AND
DISULPHIDE GROUPS DUE TO HIGH PRESSURE OXYGEN
BREATHING IN RATS
A64-80073

VAN DEN BRINK, G.

NOISE MASKED HEARING THRESHOLD FOR PULSES OF 800
CPS OVER WIDE RANGE OF PULSE DURATIONS AND
BANDWIDTHS OF MASKING NOISE

A64-21336

VAN DYKE, D.

DISTRIBUTION OF BONE MARROW IN SKELETON OF HUMAN
BODY, RABBIT, AND RAT, USING RADIOACTIVE IRON
ISOTOPE AND POSITRON SCINTILLATION CAMERA
N64-22853

VAN GRAAN, C. H.
HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
PHYSICAL EXERCISE IN HOT ENVIRONMENT

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE A64-81008

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

VAN HOEK, R.

RADIATION RECOVERY IN MAN - EVALUATION OF
EXPERIMENTAL AND CLINICAL DATA A64-80336

VAN HOUTEN, J.

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM TRANSFER OF HEART CONTRACTILE ENERGY THROUGH
LUNG-THORAX SYSTEM N64-22412

VAN HUSS, W. D.

INTERCORRELATION OF EXERCISE, BODY COMPOSITION,
FOOD RESTRICTION, SERUM AND LIVER CHOLESTEROL, AND
ADRENAL WEIGHT IN RAT

A64-80785

- VAN KENSBURG, A. J.
 HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
 ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
 PHYSICAL EXERCISE IN HOT ENVIRONMENT
 A64-80696
- VAN ORDEN, F.
 RELATIONSHIP BETWEEN GROWTH AND GRAVITY IN
 BACTERIA ESCHERICHIA COLI N64-28649
- VAN RENSBURG, A. J.
 PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU
 MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE
 RACIAL DIFFERENCE
 A64-8076

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

- PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014
- VAN WOERDEN, J.
 ANNOTATED BIBLIOGRAPHY ON PHYSICAL CHARACTERISTICS
 OF THERMAL RADIATION AND RADIATION SOURCES, AND
 PROTECTION AGAINST BIOLOGICAL EFFECTS
 TDCK-33500 N64-32018
- VAN MULFFTEN PALTHE, P. M.
 NEURO-PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS IN
 AIRCRAFT ACCIDENTS
 A64-80243
- VAN, D.-G.
 STREPTOMYCINS PROTECTIVE EFFECT ON CHROMOSOME S IN
 SEXUAL CELLS OF WHITE MICE SUBJECTED TO RADIATION
 A64-28414
- VANDEGRIFT, J. L.
 HISTORY OF AIR RESCUE SERVICE AS RELATED TO
 CIVILIAN AND MILITARY PERSONNEL, EQUIPMENT
 RECOVERY, AND SPACE FLIGHT
 A64-80558
- VANDERPLAS, J. M.
 VISUAL CAPABILITIES IN ACQUISITION, HOMING AND
 DOCKING PHASES OF SPACECRAFT RENDEZVOUS
 A64-10634
- VANDERVEEN, J. E.
 NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED
 DIET FOR SPACE FLIGHT MISSION A64-80863
- VANDERWOLF, C. H.
 THALAMUS CONTROL OF VOLUNTARY MOVEMENT IN RAT
 A64-81179
- VANSMEV, I. F.
 AUTOMATIC TEMPERATURE CONTROL SYSTEM FOR
 MICROORGANISM CULTURES
 N64-23658
- VARAMAY, C. J.

 VISUAL PROBLEMS IN SPACECRAFT DOCKING INCLUDING
 ASTRONAUTS CAPABILITIES AND LIGHT EFFECTS ON
 TARGET
 AIAA PAPER 64-221

 A64-20103
- VARENE, P.

 ELECTROMYOGRAM OF INSPIRATORY AND EXPIRATORY
 MUSCLES DURING POSITIVE PRESSURE BREATHING
 AGA-ROOSO

PRESSURE-VOLUME DIAGRAM TO EXPLAIN MAINTENANCE OF NORMAL BREATHING RHYTHM DURING POSITIVE PRESSURE BREATHING A64-80057

DETERMINATION OF STATIC PULMONARY AND THORACOPULMONARY COMPLIANCE DURING POSITIVE PRESSURE BREATHING A64-80059

ELECTROMYOGRAM OF DIAPHRAGM, NECK, ABDOMINAL, AND INTERCOSTAL MUSCLES IN RELATION TO RESPIRATORY PHASE DURING TRANSVERSE ACCELERATION

PULMONARY PRESSURE CHANGES DURING EXPLOSIVE DECOMPRESSION IN SUBJECTS MEARING A FRENCH HIGH-ALTITUDE SUIT A64-80282

- RESPIRATORY PHYSIOLOGY IN AEROSPACE MEDICINE
 A64-80718
- VARSHAVSKIY, V. I. STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS N64-12526
- VARSHAVSKIY, YA. M.
 EFFECT OF DEUTERIUM OXIDE ON PROPERTIES OF
 DESOXYRIBONUCLEIC ACID AND PROTEINS
 N64-18412
- VARTANYAN, L. S.
 INTERACTION OF FREE RADICAL FROM INHIBITORS OF
 ENZYMES WITH PROTEIN SULFUR COMPOUNDS
 N64-10854
- VASILENKO, F. D.
 INFLUENCE OF PHYSICAL AGENTS ON PHYSIOLOGICAL
 MECHANISMS WHICH PROTECT ORGANISMS FROM DISEASE
 N64-17171
- VASILENKO, V. KH.
 SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON
 BIOLOGICAL AND MEDICAL RESEARCH RELATED TO
 CHEMISTRY
 JPRS-26845
 N64-32164
- VASILEY, P. V.
 STIMULATION AND INHIBITION OF RODENT CEREBRAL
 CORTEX AND SUBCORTEX DUE TO PROLONGED TRANSVERSE
 ACCELERATIONS
 A64-25600
 - U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE
 - PHYSIOLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458
- VASILEVA, A. A.

 DOSIMETRIC MEASUREMENT OF COSMIC RADIATION ONBOARD
 VOSTOK V AND VOSTOK VI SPACESHIPS

 A64-18573
- VASILEVSKIY, N. N.
 PRESSURE TRANSDUCER FOR OPTICAL RECORDING
 OSCILLOGRAPH
 N64-31105
- VASILEVSKIY, V.

 EFFECT OF VIBRATION, ACCELERATION, WEIGHTLESSNESS
 & BIOLOGICAL RHYTHMS ON MAN IN SPACE

 JPRS-18627 N64-10503
- VASILYEV, P. V.
 THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD
 ACCELERATIONS
 N64-11852

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM FTD-TT-63-719/162 N64-23309

LONG-LASTING TRANSVERSE G-FORCE EFFECT ON CENTRAL NERVOUS SYSTEM OF ANIMALS N64-23766

- VASYUTINSKAYA, YE. M.
 PROTEIN METABOLISM IN RABBITS DURING ACUTE
 RADIATION SICKNESS N64-12779
- VAUGHAN, W. S., JR.

 LABORATORY STUDIES OF ABILITY OF OBSERVERS TO
 PERFORM THREE VISUAL TASKS REQUIRED OF PILOTS IN
 APPROACH AND LANDING
 HSR-RR-63/7-MK-X
 N64-10444

ABILITY OF HUMAN SUBJECTS TO PERFORM VISUAL TASKS
REQUIRED IN APPROACH AND LANDING
N64-10445

ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC GEOMETRIC DESIGNS AT VARIOUS ANGLES HSR-RR-61/13-MK-X N64-10446

ABILITY OF HUMAN SUBJECTS TO ALIGN WITH LINEAR STIMULI
HSR-RR-62/9-MK-X
N64-10447

HUMAN PERFORMANCE IN ADJUSTING LINEAR STIMULUS TO

HORIZONTAL POSITION HSR-RR-63/2-MK-X

N64-10448

ACCUMULATION OF STATIC ELECTRICITY ON ARCTIC CLOTHING WITH DECREASE IN TEMPERATURE AND HAZARD OF EXPLOSIVE GAS-AIR MIXTURES IGNITING BY ELECTROSTATIC DISCHARGE

THERMAL RESPONSE OF HUMAN SUBJECT IN FULL PRESSURE SUIT UNDER ARCTIC FIELD CONDITIONS A64-25542

THERMAL RESPONSE OF SUBJECT WEARING FULL PRESSURE SUIT DURING EXERCISE IN ARCTIC ENVIRONMENT

A64~80918

CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION JPRS-25761 N64-26765

VELASQUEZ, T.
LUNG MECHANICS AND VENOUS ADMIXTURE AS AFFECTED BY
NEGATIVE PRESSURE BREATHING OF 100 PER CENT ORGEN

LUNG MECHANICS & VENOUS ADMIXTURE IN NEGATIVE PRESSURE BREATHING N64-17931

DETERMINATION OF TEMPERATURE OF PULMONARY CAPILLARY BLOOD N64-17932

VELGHE, M.

ULTRASONIC WAVE EXCITATION IN ORGANIC MATTER DUE TO LASER BEAM IRRADIATION A64-22695

OF OSMOTIC PRESSURE OSCILLATIONS

N64-32777

LIGHT STIMULATION EFFECT ON VISUAL CORTEX AND BRAIN POTENTIALS IN RABBIT A64-81297

REACTION TIME IN RELATION TO BLOCKING OF ALPHA A64-80356

VENDE. E. BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING TASKS JPRS-17500

VENSLAUSKAS, M. I. TWO FUSION THRESHOLDS OF LIGHT STIMULI IN VISUAL ANALYZER OF MAN JPRS-23946 N64-17806

VEPRINTSEV, B. N.
NUCLEAR MEMBRANE STRUCTURE OF NERVE CELL JPRS-24607 N64-20233

VER HULST, J. FAULT ISOLATION PRESENTATION AMRL—TDR—64-57

N64-31944

A64-13751

N64-10690

RESPIRATORY MUSCLE ACTIVITY AND RESPIRATORY WORK DURING POSITIVE PRESSURE BREATHING

VEREVKINA, G. L.
EFFECT OF CONSTANT MAGNETIC FIELD ON CONDITIONED
REFLEXES IN SEA FISH
NASA-TT-F-189
N64-1156 N64-11564

VERHEIJEN, F. J.
OCULOMUSCULAR THEORY OF AUTOKINESIS

A64-80622

VERNET, CH. MICROBIOLOGICAL DEWAXING PROCESS YIELDING PROTEIN-VITAMIN CONCENTRATES NASA-TT-F-233 N64-26836 VERNON, J. A.
SENSORY DEPRIVATION AND SOCIAL ISOLATION - EFFECTS
ON PERFORMANCE OF UNSTRUCTURED COGNITIVE TASK
A64-80267

SENSORY DEPRIVATION STUDIES CONDUCTED AT PRINCETON

VISUAL HALLUCINATIONS DURING SENSORY DEPRIVATION - PROBLEM OF CRITERIA

A64-80679

VERZHBINSKAYA, N. A.
TISSUE MECHANISMS - ADAPTATION OF ANIMALS TO
REDUCED DXYGEN CONTENT IN ENVIRONMENT JPRS-16105 N64-21480

VERZILIN, N. N.
PHYSIOLOGY AND BIOCHEMISTRY OF PLANTS - EFFECT OF
INDOLYL ACETIC ACID AND INDOLYL BUTYRIC ACID ON ALGAE FTD-MT-63-49 N64-18672

CORONARY DISTURBANCES AND FLYING AS RELATED TO PILOT SELECTION EXAMINATIONS A64-80769

VESSELINOVITCH, D.
RECOVERY OF MOUSE TISSUE FROM RADIATION INJURY BY
SODIUM SULFITE OR THIAZOLIDINE TREATMENT N64-13506

VETTER, A. F. WATER RECOVERY FROM URINE BY FREEZE DRYING PROCESS USING MICROWAVE ENERGY SOURCE AMRL-TDR-63-130

VIDOVIC, V. HYPOTHERMIA AND ASCORBIC ACID CONTENT AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT OTS 62-11760/1. A64-80060

HYPOTHERMIA AND ASCORBIC ACID CONTENT AND DISTRIBUTION IN ADRENAL CORTEX OF THE RAT OTS 62-11760/1. A64-80060

VIKTOROV, YE. D.
STABILITY AND CONTROL OF SYSTEM WITH LINEAR REGULATOR N64-24708

VIL-VILYAMS, I.

BIONICS - ENGINEERING CYBERNETICS USING KNOWLEDGE OF BIOLOGICAL PROCESSES FOR SOLVING ENGINEERING JPRS-17500

VILYAVIN, G. D.
PATHOGENETIC MECHANISMS IN DEVELOPMENT OF BURN SICKNESS JPRS-24338

VINNIKOV, YA. A.
MORPHOLOGICAL & HISTOLOGICAL INVESTIGATION OF
VESTIBULAR APPARATUS OF ANIMALS IN CHANGING GRAVITATIONAL FIELD

HISTOCHEMICAL AND ELECTRON MICROSCOPIC STUDIES OF GRAVITY RECEPTOR CELLS OF UTRICLE OF GUINEA PIGS SUBJECTED TO RADIAL ACCELERATION JPRS-23837 N64-18084

VINOGRAD, S. P.
AEROSPACE MEDICAL RESEARCH APPLIED TO OTHER
MEDICAL FIELDS - PHYSIOLOGICAL RESPONSE TO
RADIATION, MEIGHTLESSNESS, ACCELERATION, AND
BIDINSTRUMENTATION NASA-RP-306 N64-29339

VIOLETTE DYNAMIC FACTORS AND AIRCRAFT DESIGN IN VERTEBRAL FRACTURES OCCURRING DURING FORCED OR FAULTY LANDINGS IN FRANCE

VIOLETTE, F. BIOLOGICAL PROBLEMS IN MANNED SPACE EXPLORATION INCLUDING ACCELERATION TOLERANCE, WEIGHTLESSNESS EFFECTS, RADIATION, CONFINEMENT AND SUPPORT SYSTEMS A64-26917 REPEATED POSITIVE ACCELERATION OF LOW INTENSITY & LONG DURATION — ANATOMICAL STUDY OF DOG KIDNEY N64-13462

CENTRIFUGES FOR STUDYING LONG TERM ACCELERATION STRESS ON MAN AND ANIMALS N64-13 N64-13465

VISHNEVSKIY, A. A. CYBERNETIC METHOD FOR PROGNOSIS OF BURN INJURY BY N64-1000 ALGORITHM OPERATION N64-10007

PROSPECTS FOR USE OF LASERS IN BIOLOGY & MEDICINE N64-14149

VISHNIAC. W. LIMONITE ENVIRONMENT MAY PROVIDE ECOLOGICAL BASIS FOR RESPIRATORY AND PHOTOSYNTHETIC MARTIAN OR GANT SMS

EXTRATERRESTRIAL LIFE DETECTOR, AND AUTOMATIC PAPER CHROMATOGRAPHY DEVICE FOR ANALYSIS OF SOLUBLE CONSTITUENTS OF PLANETARY SOIL NASA-CR-56523 N64-22783

DEVELOPMENT OF LIFE DETECTOR FOR PLANETARY SOILS -DETECTION BY CHANGES IN LIGHT TRANSMISSION AND IN PH FACTOR OF SELECTED MEDIUM NASA-CR-56528

VITEX, F. EXPONENTIAL MODEL FOR DETERMINING ABSORBED DOSAGE OF RADIOISOTOPE IN HUMAN BODY N64-32662 FTD-TT-63-923/1&2

SUGGESTION - INFLUENCE OF INSTRUCTION ON PERCEPTION OF AUTOKINETIC EFFECT

A64-80617

VLADIMIROV, V. G. RADIATION EFFECT ON ORGANISM OF MAMMALS. INVESTIGATING REDUCTION OF DNA LEVEL

A64-27592

VLADIMIROVA, N. G. IRON AS GROWTH FACTOR OF ALGAE, CHLORELLA PYRENDIDOSA. AND CHICK 82 A64-81081

EFFECT OF SPACE FLIGHT CONDITIONS IN SATELLITE ON PRESERVATION OF VIABILITY OF CHORELLA CULTURE N64-11678

VOAS, R. B. GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS OF ASTRONAUTS

LOCAL EFFECT OF ACETYLCHOLINE, ATROPINE,
TETRAETHYLAMMONIUM, AND ISOFLUROPHATE /DFP/ ON
VESTIBULAR FUNCTION IN RABBIT A64-8 A64-80981

VOGEL, J. H. K.
CARDIOVASCULAR SYSTEM IN CHILDREN FROM HIGH A64-80311 ALTITUDE

VOGELHUT. P. O. BIOELECTRONICS - HALL EFFECT AND ELECTROMAGNETIC EFFECTS ON NERVOUS SYSTEM REPT.-63-27 N64-21680

VOIERS, W. D.
DETERMINATION OF NUMBER AND NATURE OF BASIC VOICES PERCEIVED TO DIFFER FROM EACH OTHER BY TYPICAL A64-21333

VOITKEVICH, V. I.
HEMOPOIETIC FACTOR IN BLOOD PLASMA OF RAT STIMULATED BY CONTINUOUS OXYGEN DEPRIVATION A64-80751

BRAIN BLOOD CIRCULATION, ERYTHROCYTE, HEMOGLOBIN, AND HEMATOPOIETIC CHANGES IN WHITE RAT ADAPTING TO HYPOXIA IN ENVIRONMENTAL CHAMBER A64-80759

OXYGEN-COMBINING PROPERTIES OF CIRCULATING-BLOOD HEMOGLOBIN IN ORGANISM DURING PROLONGED HYPOXIA IN

VOKHMIANIN, P. F.
DEPRESSION OF DXYGEN CONSUMPTION AND CARBON DIOXIDE REMOVAL IN PRESSURE BREATHING UTILIZING A64-81265 MASK

VOLF, L. A.
STERILIZED FIBERS FOR CLINICAL MEDICINE JPRS-23609 N64-16545

VOLKOVA, A. P.
INFLUENCE OF SPACE FLIGHT FACTORS ON HEMATOPOIETIC
ORGANS IN MICE
N64-11677

VOLOKHOVA, N. A.
REACTIONS TO ACCELERATION JPRS-21908

N64-10383

TEMPERATURE REACTION TO GAMMA RADIATION IN MONKEYS N64-20945

HUMAN PHYSIOLOGICAL AND PSYCHOLOGICAL RESPONSES TO SION ROTATION

VOLOSHINOVA, YE. V.

LEARNING SYSTEM - TAUGHT BY HUMANS, AUTOMATICALLY
TAUGHT, & SELF-TAUGHT JPRS-21770 N64-10204

VOLYNKIN, IU. M.
BIOLOGICAL EFFECTS OF PHYSICAL CONDITIONS IN SPACE
FLIGHT INCLUDING RADIATION, VACUUM, TEMPERATURE,
NOISE, VIBRATION, ACCELERATION, WEIGHTLESSNESS, FOOD AND ARTIFICIAL ATMOSPHERE

U.S. AND U.S.S.R. DATA ON PHYSIOLOGICAL EFFECTS OF SPACE FLIGHT ON ASTRONAUT PERFORMANCE A64-26380

VOLYNKIN, YU.
PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECT OF SPACE FLIGHT ON ASTRONAUTS JPRS-20171

VOLYMKIN, YU. M. BIOLOGICAL CHARACTERIZATION OF PHYSICAL CONDITIONS N64-23736 OF SPACE FLIGHT

VON DER WALDE, F. E.
ARTERIAL PRESSURE AND HEART RATE DURING AND AFTER A64-80207 EXERCISE

VON DIRINGSHOFEN. H. VALUE OF AEROSPACE MEDICAL RESEARCH TO CLINICAL MEDICINE ILLUSTRATED BY CONSIDERATION OF EFFECTS OF ACCELERATION, WEIGHTLESSNESS, RADIATION AND SENSORIAL DEPRIVATIONS A64-11430

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS WITH REGARD TO THEIR DEPENDENCE ON ACCELERATION GRADIENT FOR AIRCRAFT A64-22819

THRESHOLDS FOR PERCEPTION OF LINEARLY INCREASING ANGULAR ACCELERATIONS AS RELATED TO AIRCRAFT ATTITUDE CONTROL AND SEMICIRCULAR CANALS A64-80692

PHENOMENAL DISPLACEMENT OF LIGHTS IN APPARENT MOVEMENT AS FUNCTION OF BACKGROUND STIMULI

VON FOERSTER, H. COMPUTATIONAL PRINCIPLES IN LIVING ORGANISMS, COVERING PARALLEL NETWORKS WITH UNALTERABLE INTERNAL STRUCTURE AND DYNAMICALLY ADAPTIVE SYSTEMS A64-24405

MOLECULAR BIONICS

N64-18837

VON GIERKE, H. E. REVIEW OF HUMAN TOLERANCE TO FORCED ENVIRONMENTS OF SPACE FLIGHT, INCLUDING EFFECTS OF PROLONGED AND TRANSIENT ACCELERATIONS, VIBRATIONS AND NOISE A64-24394

ELECTROSTATIC EXCITATION OF VIBRATIONS IN TISSUES USED IN PSYCHOPHYSIOLOGICAL STUDY OF AUDITORY OR VIBROTACTILE SYSTEMS

A64-25545

TRANSIENT ACCELERATION, VIBRATION, AND NOISE PROBLEMS IN SPACE FLIGHT - A REVIEW

A64-80478

AIRCRAFT NOISE EVALUATION AS RELATED TO RESIDENTIAL COMMUNITIES AND AIRPORT PLANNING A64-80682

HEARING PHENOMENA WITH EXPOSURE TO ALTERNATING ELECTROSTATIC FIELD A64-80919

VON RAHDEN, M. J. E.
HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU
MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE
RACIAL DIFFERENCE
A64-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

A64-81008

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

VON SCHELLING, H.

PERCEPTUAL THEORY OF RELATIVITY REGARDING SPACE
AND TIME AS INSEPARABLE

A64-24406

VORIS, F. E.
MEDICAL ASPECTS OF MANNED SPACE FLIGHT

A64-18256

MEDICAL ASPECTS OF SPACE FLIGHT FP-17

N64-27071

VOROBYEV, YE. I.

RESEARCH IN RADIOBIOLOGY, GENETICS, RADIATION
MEDICINE, AND BIOPHYSICS
JPRS-21868
N64-10328

VORONIN, L. G.
MECHANISM OF NERVOUS RESPONSES IN LIZARDS

N64-31465

VORDNOV, G. T.

INTRAMOLECULAR REORGANIZATION IN ALCOHOL
DEHYDROGENASE AND PROTEINASE OF B. SUBTILIS DUE TO
SUBZERO TEMPERATURES
A64-24969

VORONOVA, K. V.
SUGAR AND GLYCOGEN BLOOD LEVELS OF RABBIT AND
DOG EXPOSED TO PROLONGED VIBRATION

A64-80725

VORONTSOVA, I. P. STOCHASTIC MACHINE INSTRUCTION AND APPLICATION TO BEHAVIOR OF LIVING THINGS - CYBERNETICS

VOSKRESENSKII, A. D.
INFORMATION THEORY APPLICATIONS TO SPACE MEDICAL
PROBLEMS, UTILIZING ALGORITHMS AND SIMULATION
MODELS
A64-25605

PHYSIOLOGICAL CHANGES EXPERIENCED DURING SPACE FLIGHT, NOTING TECHNIQUES DETERMINING TRANSVERSE ACCELERATION EFFECTS A64-28458

VOSKRESENSKIY, A. D.
THEORY AND EXPERIMENTS ON PHYSIOLOGY OF FORWARD
ACCELERATIONS
N64-11852

APPLICATIONS OF CYBERNETICS TO PHYSIOLOGICAL PHENOMENA FTD-TT-63-521/1&4 N64-22182

EFFECTS OF COSMIC FLIGHTS ON HUMAN ORGANISM

FTD-TT-63-719/182

N64-23309

MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE
N64-23771

VOVCHIK-BLAKITNAYA, M. V.
DEVELOPMENT OF SPATIAL DISCRIMINATION IN PRESCHOOL
AGE CHILDERN N64-25145

VOYTKEVICH, V. I.

ADAPTATION OF ORGANISMS TO CHRONIC OXYGEN
STARVATION - ACCLIMATIZATION OF HUMANS TO ALTITUDE
AND HYPDXIA CHAMBER CONDITIONS N64-31539

VRODMAN, M. J.

ENHANCEMENT DEPENDENCE ON SHORT WAVE AND FAR RED
ILLUMINATIONS - PHOTOSYNTHESIS RATES

N64-33261

ENHANCEMENT OF PHOTOSYNTHESIS OF CHLORELLA
PYRENOIDOSA AS FUNCTION OF FAR-RED AND SHORT WAVE
ILLUMINATIONS
N64-33456

VYALOVE, N. A.
ACUTE RADIATION SICKNESS IN MAN
FTD-TT-63-558/1&2

N64-21645

VYSOTSKI, V. G.
WEIGHTLESSNESS AND COSMIC RADIATION EFFECTS ON
REPRODUCTION IN DROSOPHILA MELANOGASTER AND
HEREDITARY STRUCTURE OF TRADESCANTIA PALUDOSA
A64-18673

VYSOTSKII, V. G.
CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDOSA
MICROSPORES OBSERVED DURING VOSTOK 4 EXPERIMENT
A64-11351

CHROMOSOME REARRANGEMENTS IN TRADESCANTIA PALUDDSA MICROSPORES OBSERVED DURING VOSTOK IV EXPERIMENT A64-17074

ORGANIC CHANGES PRODUCED ON MICROSPORES
TRADESCANTIA PALUDOSA CARRIED ON VOSTOK SPACECRAFT
A64-18575

CELLULAR REARRANGEMENT OF TRADESCANTIA PALUDOSA MICROSPORES PRODUCED BY FLIGHTS ON VOSTOK III AND IV A64-23669

VYSOTSKIY, V. G.
EFFECT OF SPACE FLIGHT CONDITIONS IN VOSTOK III
SPACECRAFT ON SEED OF HIGHER PLANTS
N64-21643

EFFECT OF SPACE FACTORS ON MITOSIS IN MICROORGANISMS DURING FLIGHT NASA-TT-F-8825 N64-23042

EFFECT OF SPACE FLIGHT ON MICROSPORES ABOARD VOSTOK V AND VI SPACECRAFT N64-29091

W

WAGNER, B. M.
AMERICAN AND SOVIET APPROACH TO MANNED SPACECRAFT
COMPARED, NOTING LIFE SUPPORT PROBLEMS AND
PROTECTION AGAINST SPACE ENVIRONMENT
AIAA PAPER 64-515
A64-20469

PATHOLOGICAL EFFECT OF ACCELERATION, IONIZING RADIATION, AND WEIGHTLESSNESS DURING MANNED SPACE FLIGHT A64-81097

HISTOLOGICAL STUDY OF CHIMPANZEE MIDDLE AND INNER EAR ARL-TDR-64-1 N64-18650

WAGNER, M.
POSITIVE VISUAL AFTER-IMAGE OF DISPLAY MATERIAL
FOR RECALL INFORMATION
NAVTRADEVCEN-1303-3
N64-26953

WAGNER, P. R.
PHYSIOLOGICAL FACTORS IN THE TRAINING OF AIRCREW
IN USE OF THE R.A.F. PARTIAL PRESSURE SUITS
A64-13512

SEAT-MOUNTED OXYGEN SUPPLY SYSTEM FOR LIGHTNING

AIRCRAFT FPRC/MEMO-202

WALLACH, H.

AICE PAPER 8C

N64-25845

WAHLBERG, R.
VACUUM ADAPTATION OF BASEPLATE MATERIALS TO
DENTAL CASTS

DENTAL CASTS
SAM-TDR-64-51 N64-31054

WAKIN, K. G.
PHYSIOLOGICAL RESPONSES TO HIGH ENVIRONMENTAL
TEMPERATURE AND HYPERTHERMIA A64-80878

MALAMSKI, J.
TEMPERATURE EFFECT ON PROTECTIVE ACTION OF
CYSTEAMINE IN RADIATION DAMAGE IN CANCER CELL
CULTURES
A64-80964

WALK, D. E.
MOTION PERFORMANCE OF PRESSURE SUITED SUBJECTS
UNDER ZERO AND LUNAR GRAVITY CONDITIONS

FINGER DEXTERITY OF PRESSURE-SUITED SUBJECTS WITH

AND WITHOUT GLOVES
AMRL-TDR-64-41
N64-27444

WALKER, J. R.
EVIDENCE FOR TISSUE OXYGEN DEMAND AS MAJOR FACTOR
IN AUTOREGULATION IN DDG A64-81238

WALKER, N. K.
ERROR ANALYSIS OF HUMAN PERFORMANCE ON TRACKING
TASKS UNDER STRESS
AD-428112
N64-141

WALKER, P. P.
COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
N64-22861

WALL, P. D.
PROCESS OF CORRECTLY SIGNALLING LOCATION OF
STIMULUS TO CENTRAL NERVOUS SYSTEM

N64-18833

A64-17321

WALLACE, R. M.
DOSE, PARTICLE ENERGY, AND LINEAR ENERGY TRANSFER
/LET/ DISTRIBUTION IN OMNIDIRECTIONALLY PROTON
IRRADIATED SPHERICAL LUCITE PHANTOM

N64-15204

ACCOMMODATION AS DISTANCE CUE IN VISUAL PERCEPTION
A64-80141

WALLER, D. J.
AIR EVACUATION OF PATIENTS WITH ACUTE RESPIRATORY
PROBLEMS USING INTERMITTENT POSITIVE PRESSURE
BREATHING
A64-B0605

WALLMAN, H.

MATER RECYCLING SUBSYSTEM FOR SPACE STATION, USING ACTIVATED CARBON, ION EXCHANGE RESIN AND FINE PORE FILTER

MULTIFILTER SYSTEM FOR WASH WATER RECLAMATION FOR EXTENDED DURATION SPACE VOYAGES, SHOWING IMPORTANCE OF WATER COMPOSITION AIAA PAPER 64-212 A64-18865

WASH WATER RECOVERY FOR EXTENDED DURATION SPACE FLIGHTS AIAA PAPER-64-212 N64-21538

WASTE DISPOSAL SYSTEM FOR AEROSPACE VEHICLE U413-64-056 N64-26883

MULTIFILTER SYSTEM FOR RECOVERING POTABLE AND WASH

WATER FROM CABIN AIR DEHUMIDIFIERS
N64-28949

WALLRAFF, H. G.
INFLUENCE OF NUCLEUS ON ENDOGENOUS CIRCADIAN
RHYTHM OF OXYGEN BALANCE IN CYTOPLASM OF GREEN
ALGA, ACETABULARIA
A64-81320

WALSH, A.
PART TASK TRAINER /PTT/, SPACE FLIGHT SIMULATOR
FOR ASTRONAUT TRAINING

SAE PAPER 866H

A64-20850

WALSH, E. G.
PERCEPTION IN HUMAN OF RHYTHMICALLY REPEATED
LINEAR MOTION IN VERTICAL PLANE AT DIFFERENT
FREQUENCIES AND EFFECT OF VESTIBULAR APPARATUS
A64-B1230

WALSH, M. J.
ARTIFICIAL INTELLIGENCE GENERATED BY NATURAL
EVOLUTION PROCESS
A64-24824

WALTER, D. O.

COMPUTER ANALYSIS OF PROLONGED EFFECTS OF LYSERGIC
ACID DIETHYL AMIDE ON ELECTROENCEPHALOGRAM RECORDS
DURING DISCRIMINATIVE PERFORMANCE IN CAT

N64-22427

WALTERS, C.
SENSORY ISOLATION - SEX DIFFERENCES IN RESPONSE
A64-80345

WALTERS, C. F.
TREATMENT OF UNDILUTED HUMAN WASTE BY ACTIVATED
SLUDGE PROCESS
AAL-TDR-63-36
N64-32115

WALTON, H.
BIBLIOGRAPHY ON COMPRESSED AIR SYSTEMS
KAPL-M-TL-1
N64-21844

WALTON, K. N.
HYPOTHERMIC EFFECT ON GLYCOLYSIS AND OXYGEN
CONSUMPTION IN DOG KIDNEY
A64-80569

WALWICK, E. R.
BIOCHEMICAL FUEL CELL FOR ELECTROCHEMICAL ENERGY
PRODUCTION
NASA-CR-56051
N64-25906

WAMSLEY, J. R.
DECOMPRESSION TESTS FOR B-58 ESCAPE CAPSULE SYSTEM
A64-B0331

WANG, C. H.
BIOCHEMICAL AND PHARMACOLOGICAL STUDIES OF
DIMETHYLHYDRAZINE
AMRL-TDR-63-127
N64-16584

TRANSFER AND ADMINISTRATION OF PENTABORANE-9 TO SMALL MAMMALS
AMRL-TDR-63-128
N64-16585

WANG, Y.

MAXIMAL OXYGEN INTAKE PREDICTION STUDIED WITH
RESPECT TO CARDIOVASCULAR SYSTEM IN TRAINED AND
UNTRAINED INDIVIDUALS DURING EXERCISE

A64-81017

WAPNER, S.
MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL
LOCALIZATION OF VISUAL STIMULI IN UP-DOWN
DIMENSION OF SPACE
A64-20690

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI

A64-80496

CRITICAL FLICKER FREQUENCY THRESHOLD AS FUNCTION
OF ARTIFICIALLY MANIPULATED PHENOMENAL TIME
A64-81150

WARD, J. S.
PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU
MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE
RACIAL DIFFERENCE
A64-80764

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO COLD A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

WARD, M. P. MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS AS RELATED TO OXYGEN INTAKE, VENTILATION, AND HEART RATE

A64-80515 MARD, W. E.

PHYSIOLOGICAL BASE-LINE STUDIES FOR CHIMPANZEES

UNDER STABLE FLIGHT CONDITIONS

ARI-TDR-64-4

N64-26197

MARREN, B. H.

SENSITIVITY OF SEMICIRCULAR CANALS TO STIMULATION
DURING WEIGHTLESSNESS, BY TIMING ROTATION OF
OCULOGYRAL ILLUSION AND THE PERCEPTION OF ROTATION
AFTER STIMULATION
A64-13509

ELEVATOR ILLUSION OBSERVED IN FLIGHT DURING SUBGRAVITY PRECEDED BY NEGATIVE ACCELERATION

A64-80174

EXCLUSION OF ANGULAR ACCELERATIONS AS PRINCIPAL CAUSE OF VISUAL ILLUSIONS DURING PARABOLIC FLIGHT MANEUVERS
SAM-TDR-63-78
N64-1267

WARREN, C. S.
RADIATION DOSIMETRY ABOARD MERCURY /MA-8/
SPACECRAFT

NASA-TN-D-1862 N64-28320

WASSERMAN, K.

VENTILATORY EXCHANGE RATIO DURING EXERCISE AS
RELATED TO CARDIOPULMONARY FUNCTION AND
METABOLIC ACIDOSIS

A64-80737

WATAMABE, A.

OPTOKINETIC NYSTAGMUS-STUDY OF NEURONAL MECHANISM

A64-80241

WATANABE, G.-I.

SEASONAL VARIATION OF ADRENAL CORTEX, LEUCOCYTES,

AND REACTION TO ENVIRONMENTAL TEMPERATURE

A64-80899

WATANABE, I.

POSTROTATORY NYSTAGMUS AS TEST OF VESTIBULAR
FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS

FUNCTION - ITS RELATION TO AUTONOMIC NERVOUS
SYSTEM STABILITY
A64-80254

OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION A64-80256

WATKINS, M. L.

CARBON TETRACHLORIDE POISONING AS RELATED TO
TRANSPORT AND METABOLISM OF TRIGLYCERIDES AND
FATTY ACIDS IN RAT LIVER

A64-80730

WATKINS, W. H. NOISE EFFECT ON DETECTION OF VISUAL SIGNALS A64-80149

WATSON, C. S.
NOISE INDUCED DEAFNESS IN CAT
A64-80308

WATSON, N. W.
BLOOD VELOCITY TELEMETERED FROM UNRESTRAINED
EXERCISING ANIMALS A64-80916

MATSON, O.
SOUNDPROOF ROOM PROVIDING MAXIMUM ATTENUATION IN
SPEECH FREQUENCY RANGE A64-80610

WAY, E. L.
COLD EXPOSURE EFFECT ON ACTION OF MORPHINE IN RATS
AND MICE
AAI -TDR-62-50
N64-23109

WEARE, J.

EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS
NASA-CR-55656 N64-16326

WEBB, M. G.
ACCELERATION TOLERANCES ON CENTRIFUGE - ABILITY OF
MAN TO PERFORM TOTAL TASK IN TOTAL ENVIRONMENT
N64-13458

WEBB, P.

HUMAN THERMAL BALANCE, HEAT TOLERANCE AND
PROTECTION IN ARTIFICIAL SPACECRAFT ENVIRONMENT
A64-24396

HEAT REGULATION, HEAT TOLERANCE, AND THERMAL

PROTECTION IN MANNED SPACE FLIGHT

A64-80480

MEBB, W. B.

REACTION TIME AND SERIAL RESPONSE EFFICIENCY ON
AROUSAL FROM SLEEP
A64-80572

WEBBER, C. E.
VISUAL DISPLAY MODE EFFECTS ON OVERALL MEAN
PERFORMANCE FOR VIGILANCE TASKS

A64-26850

EFFECTS OF VISUAL DISPLAY MODE AND MONITORING ON PERFORMANCE IN COMPLEX VIGILANCE TASK SAM-TDR-64-34 N64-29794

WEBBER, M. R.
SOLAR FLARE RADIATION HAZARDS, DISCUSSING PARTICLE
FLUX CALCULATIONS AND RADIATION DOSAGE UNDER
VARIOUS SHIELDING THICKNESSES
A64-13477

WEBER, S. J.

LABELLED THYMIDINE AND RADIOAUTOGRAPHY TO ASSESS
ADRENAL CELL FORMATION IN ANIMALS AFTER VARIOUS
TIMES OF COLD EXPOSURE
AAL-TDR-63-7
N64-1363

WEBER. T.
ENUMERATION OF INTERACTIONS THAT MIGHT BE EXPECTED FROM CONSTITUENTS IN A SEALED ENVIRONMENTAL SYSTEM AIAA PAPER 63-258
A64-14341

WEBER, T. B.

MONITORING TRACE CONTAMINANTS IN SIMULATED
MANNED SPACECRAFT A64-80538

WEBSTER, R. G.
EFFECTS OF COMPETITION BETWEEN PERIPHERY AND
CENTER OF ATTENTION IN AUDITORY AND VISUAL TASKS
A64-R1042

WEDUM, A. G.
SAFETY MANUAL FOR PERSONNEL HANDLING RADIOACTIVE
MATERIALS
AD-438147
N64-27263

WEED, R. I.
FUNCTIONAL SIGNIFICANCE OF SULFHYDRYL GROUPS IN
CELL MEMBRANE
UR-633 N64-1066

WEEKS, M. H.

PENTABORANE TOXICITY IN MICE, RATS, AND DOGS
DURING SHORT EXPOSURE INHALATION

A64-80204

PENTABORANE POISONING AND RELATION BETWEEN LETHAL

AND INCAPACITATING DUSAGES IN MAMMAL
A64-81177

WEEKS, S. D.
VISUAL FIELD LOSS PATTERN DURING POSITIVE
ACCELERATION DEMONSTRATED AND REFINED WITH
PLETHYSMOGRAPHIC GOGGLE TYPE OPHTHALMODYNAMOMETER
A64-27604

OPERATOR VARIANCE IN DETERMINATION OF PLASTIC LIMIT OF COHESIVE SOILS RR-117 N64-27604

WEGMANN, H.-M.
ASTRONAUT HEAT WITHSTANDING CAPACITY TESTED,
APPLYING CRITERION BASED ON PULSE BEAT AND BODY
TEMPERATURE
A64-27027

ADAPTATION OF HUMANS TO SPACE FLIGHT CONDITIONS, AND EFFECTS OF SPACE ENVIRONMENT ON MAN

N64-10146

VEGETATIVE-HORMONAL STRESS RESPONSE IN MAN FOLLOWING STRESS ADAPTATION - EOSINOPHILE COUNT IN BLOOD & ADRENO-CORTICAL HORMONE LEVEL IN PLASMA N64-12753

HUMAN ADAPTATION TO ALTITUDE, HEAT, COLD, PHYSICAL EXERTION, ACCELERATION, RADIATION, IN SPACE FLIGHT NASA-TT-F-9158 N64-33410

WEGNER, S.

MEASUREMENT OF ISOMETRIC CONTRACTION AND EJECTION
TIME BY VIBROCARDIDGRAM OF ANESTHETIZED DOG

PRECORDIAL VIBRATION IN CARDIOVASCULAR SYSTEM TRANSFER OF HEART CONTRACTILE ENERGY THROUGH
LUNG-THORAX SYSTEM N64-22412

WEHR, K. C.
COMPUTER SIMULATION OF ELECTRONIC NETWORK
EMULATING PHENOMENON OF CONDITIONED REFLEX

A64-24823

WEIBEL, E. R.
QUANTITATIVE MORPHOLOGIC ANALYSIS OF HUMAN LUNG BY
NEW METHODOLOGY A64-80386

WEICK, R. F.
PSYCHOLOGICAL EFFECTS OF RESTRICTED WORKSPACE AND
WORK-REST CYCLE ON CREW FOR LUNAR MISSION
NASA-TN-D-2065 N64-14519

WEIHRER, A. L.
AUTOMATIC PATTERN RECOGNITION OF PHYSIOLOGICAL
PHENOMENA BY COMPUTERS A64-80533

WEINBERG, P. T.
PERFORMANCE CHARACTERISTICS OF ELECTRODES, SIGNAL
MODIFIERS, AND GRAPHIC RECORDING COMPONENTS IN
PHYSIOLOGICAL MONITORING SYSTEM
AMRL-TDR-62-98/2/
N64-13872

WEINER, K. H.
HYPOXIA-INDUCED CHANGES IN ACTIVITY OF
TRANSAMINASES IN ORGANS AND BLOOD OF RABBITS —
CARBOHYDRATE METABOLISM

A64-80409

INTERMEDIARY METABOLISM - INFLUENCE OF CHRONIC HYPOXIA ON TRANSAMINASE ACTIVITY IN BLOOD N64-12754

ENZYMATIC REACTION BETWEEN IRON & PROTOPORPHYRIN UNDER OXYGEN DEFICIENCY CONDITIONS - HYDOXIA N64-15038

ACTIVITY CHANGE OF GLUTAMIC-DXALACETIC ACID
TRANSAMINASE BY ALBUMIN METABOLISM DUE TO DXYGEN
DEFICIENCY - BIOCHEMISTRY N64-15039

ENZYME ACTIVATION DETERMINATION OF OXYGEN
DEFICIENCY EFFECT ON BIOSYNTHESIS OF HEME
FORMATION N64-15043

WEINER, N.

DXYGEN CONSUMPTION AND CATECHOLAMINE RELEASE FROM ADRENAL SLICES AND RATE OF RESPIRATION SAM-TDR-63-50

N64-12835

WEINSTEIN, D. S.
DISARRANGED EYE-HAND COORDINATION

N64-22061

WEINSTEIN, S.
STIMULATION DUE TO SELF-INDUCED MOVEMENT IN
PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727

DISARRANGED EYE-HAND COORDINATION

N64-22061

WEINSTORK, M.
L-SHAPE TRAJECTORY IN EMERGENCY ESCAPE SYSTEM IN
ARMY HELICOPTERS A64-80840

WEIR, F. W. PENTABORANE TOXICITY IN MICE, RATS, AND DOGS

DURING SHORT EXPOSURE INHALATION A64-80204

MECHANISM OF ACUTE TOXIC EFFECTS OF HYDRAZINE AND HYDRAZINE COMPOUNDS
AMRL-TDR-64-26 N64-22373

WEIS, E. B., JR. HUMAN RESPONSE TO ACCELERATION STRESS IN IMPACT EXPERIMENTS PROVIDING AEROSPACE DESIGN CRITERIA A64-12941 HUMAN RESPONSE TO IMPACT ACCELERATION UNDER VARIATIONS OF ORIENTATION AND ACCELERATION PATTERNS A64-13518

MECHANICAL IMPEDANCE MODEL TO DEVELOP
QUANTITATIVE STANDARDS AND DESIGN LIMIT FOR
HUMAN EXPOSURE TO DYNAMIC ACCELERATION
A64-27599

WEISINGER, M.
STIMULATION DUE TO SELF-INDUCED MOVEMENT IN
PRODUCTION OF ADAPTATION TO PRISMATIC DISPLACEMENT
N64-21727

WEISS, H. S.
METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO
INCUBATED IN HELIUM-DXYGEN ATMOSPHERE

A64-80852

WEISS, M. L.
PREPARATION OF PROGRAMMED INSTRUCTION FOR
AUTOMATED TRAINING IN DECISION MAKING - PERT
PROGRAM
ESD-TDR-63-608
N64-12319

WEISS, T.
SLEEP CYCLES IN RODENTS REGULATED BY METABOLIC
FACTORS IN LOWER BRAIN STEM
A64-80509

WEISS, T. F.
COMMUNICATION BIOPHYSICS - HEARING

N64-17884

WEISSLER, A. M.
PSYCHOMOTOR AROUSAL, HEMORRHAGE, AND UPRIGHT
POSTURE EFFECTS ON CIRCULATION OF CHIMPANZEE
ARL-TDR-63-28 N64-13854

WEISSMAN, N. W.
ABILITY OF HUMAN SUBJECTS TO PERCEIVE SIX BASIC
GEOMETRIC DESIGNS AT VARIOUS ANGLES
HSR-RR-61/13-MK-X
N64-10446

WEISWURM, K.
MOVEMENTS AND DISPERSION OF RESPIRED AIR OF
IMMOBILE ASTRONAUT DURING WEIGHTLESS FLIGHT
A64-80826

WEISZ, A. Z.
INFORMATION PROCESSING IN COMPLEX TASK UNDER SPEED
STRESS
REPT.-1129
N64-22557

RESPONSE AND FEEDBACK TECHNIQUES FOR AUTOMATED TRAINING OF VISUAL IDENTIFICATION SKILLS NAVTRADEVCEN-789-3 N64-32037

WELCH, B. E.
STEROID AND CATECHOLAMINE EXCRETION OF PILOTS
IN SPACE CABIN SIMULATOR
A64-12938

CARDIOVASCULAR DECONDITIONING FROM SPACE CABIN SIMULATOR CONFINEMENT A64-19131

CLINICAL PHYSIOLOGICAL EFFECT OF EXPOSURE TO ATMOSPHERE OF INCREASED DXYGEN PARTIAL PRESSURE AND NITROGEN A64-22053

RESPIRATORY RESPONSE TO EXPOSURE OF INCREASED ALVEOLAR PARTIAL PRESSURE OF OXYGEN IN PRESENCE OR ABSENCE OF NITROGEN A64-22054

ERYTHROPOIESIS RESPONSE TO EXPOSURE OF ATMOSPHERE WITH INCREASED OXYGEN PARTIAL PRESSURE

A64-22055

....

HUMAN RESPONSE TO CARBON DIOXIDE IN LOW PRESSURE, OXYGEN RICH ATMOSPHERE A64-80323

CLEANING TEETH IN SPACE FLIGHT SIMULATION TEST
A64-80564

OXYGEN PARTIAL PRESSURE IN PRESENCE OR ABSENCE OF NITROGEN AS RELATED TO VITAL CAPACITY, OXYGEN CONSUMPTION, AND CARBON DIOXIDE PRODUCTION

A64-R0624

INCREASED OXYGEN PARTIAL PRESSURE EFFECT ON HEMATOPOIESIS A64-80625

INCREASED DXYGEN PARTIAL PRESSURE IN ABSENCE OR PRESENCE OF NITROGEN AS RELATED TO EAR, NOSE, DARK ADAPTATION, AND KIDNEY FUNCTION IN SPACE CABIN A64-80627 SIMULATOR

ORAL HYGIENE TECHNIQUES FOR SPACE CABIN SIMULATOR FLIGHTS SAM-TDR-62-110 N64-10558

POTABLE WATER PRODUCTION BY VACUUM DISTILLATION IN TWO-MAN SPACE CABIN SIMULATOR SAM-TDR-63-60 N64-12246

SIMULATED SPACECRAFT ATMOSPHERE - EFFECT OF PROLONGED EXPOSURE TO OXYGEN AT HIGH PARTIAL PRESSURES ON MAN SAM-TDR-63-52 N64-12321

VENTILATING AIRFLOW EFFECT ON WATER REQUIREMENTS OF MEN WEARING PARTIALLY AND FULLY DONNED PRESSURE SUITS SAM-TDR-63-59

TIME-CONCENTRATION EFFECTS OF OXYGEN TOXICITY IN

EFFECTS OF HIGH CONCENTRATION OF CARBON DIOXIDE AND OF LIQUID DIET ON URINE EXCRETION OF STEROIDS AND CATECHOLAMINES SAM-TDR-63-63 N64-21094

HISTOLOGICAL, THERMAL AND BIOCHEMICAL EFFECTS OF ULTRASOUND ON LABYRINTH AND TEMPORAL BONE A64-80979

WELLS, R. J.
EFFECT OF NOISE FROM CARRIER DECK JET ENGINE OPERATION ON HEARING, SPEECH INTERFERENCE, AND SONIC FATIGUE AD-432086 N64-21840

WELLS, W. L.
EMERGENCY MEDICAL SERVICE IN SHELTERS IN POST-

OU-107 N64-20811 WELTMAN, G.

CONTINUOUS MONITORING OF ARTERIAL EXTENSIBILITY
THROUGH PULSE WAVE VELOCITY MEASUREMENT A64-20483

MYDELECTRIC POTENTIALS USED TO OPERATE SERVO BOOST SYSTEM THROUGH PREPROGRAMMED COMPUTER A64-80553

WENDT, G. R.
MOTION SICKNESS- EFFICIENCY OF LABORATORY TESTS OF DRUG TREATMENT A64-80151

MOTION SICKNESS- EFFECT ON PERFORMANCE IN CODE SUBSTITUTION AND MIRROR DRAWING

NAUSEA AND VOMITING IN SUBJECTS EXPOSED TO VERTICAL MOTION AT WARM AND MODERATE TEMPERATURE

ADAPTATION TO MOTION - RELATION TO VESTIBULAR APPARATUS AND CENTRAL NERVOUS SYSTEM A64-80437

WENZEL, H. G.
SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO

A64-81011

MUSCLE TONE EFFECT ON CHANGES IN PERCEPTUAL LOCALIZATION OF VISUAL STIMULI IN UP-DOWN DIMENSION OF SPACE A64-20690

TONUS CHANGE EFFECT WITH POSTURE CHANGE ON PERCEIVED LOCATION OF VISUAL STIMULI A64-80496

WERNICK, J. S. FATIGUING TONE EFFECT INVESTIGATED AS FUNCTION OF LEVEL OF MENTAL ACTIVITY A64-13302 PHYSIOLOGICAL FACTOR OF ACOUSTIC FATIGUE IN HEARING PURE TONES CARI-63-19 N64-14410

WESSEL, C. J.
EFFECTS OF ATMOSPHERIC CONTAMINANTS ON SUBMARINE
N64-246 AND SPACECRAFT EQUIPMENT N64-24613

LUNG DIFFUSION CAPACITY EFFECTS ON OXYGEN CONSUMPTION AT HIGH ALTITUDES A64-23258

MUSCULAR EXERCISE AT GREAT ALTITUDES IN HIMALAYAS
AS RELATED TO OXYGEN INTAKE, VENTILATION, AND
A64-80515

GAS EXCHANGE IN LUNGS OF MAN N64-17941

TOPOGRAPHICAL DISTRIBUTION OF PERFUSION AND VENTILATION OF BLOOD IN LUNGS N64-17942

OXYGEN & CARBON DIOXIDE TENSIONS IN DOG PULMONARY N64-17943

WESTPHAL, O.
SYNTHESIS OF ANTIGENS CONTAINING KNOWN SUGARS AD-430401 N64-16098

VISUAL DEPRIVATION EFFECTS ON IMAGERY EXPERIENCED BY DEAF SUBJECTS A64-80799

WEYBREW. B. B. PSYCHOLOGICAL EFFECTS OF SUBMARINE ENVIRONMENT ON HUMAN BEHAVIOR AND ADJUSTMENT POTENTIALITY OF PERSONNEL FOR EXTENDED SUBMERGED DUTY

A64-12977

WHEATON, R. B.
HUMAN WASTE COLLECTION AND STORAGE DURING SPACE FLIGHT AMRL-TDR-64-3

WHIPPLE, G. H.
SIMILARITY OF AUTOMATIC INTERPRETATION OF QRS
COMPLEX BY PATTERN RECOGNITION TECHNIQUE TO HUMAN
A64-8088 PATTERN RECOGNITION

GENERAL DISCUSSION OF ENVIRONMENTAL FACTORS WHICH ARE IMPORTANT FOR THE DESIGN AND CONSTRUCTION OF A SPACE-STATION LABORATORY AIAA PAPER 63-140 A64-18471

VIBRATION ENVIRONMENT, HUMAN TOLERANCE TO EXTREME VIBRATIONAL STRESS, & EFFECT OF VIBRATION ON OPERATOR PERFORMANCE - ABSTRACTS N64-16674

WHITE, C. S.
EFFECTS OF AMBIENT PRESSURE ON TOLERANCE OF MICE TO AIR BLAST DASA-1483 N64-21078

WHITE, C. T.
EYE ACTIVITY IN VISUAL SEARCH SITUATIONS, NOTING RELEVANCE TO VISIBILITY PROBLEM

ELECTRICAL ACTIVITY IN HUMAN SKELETAL MUSCLES,

A64-17622

A64-80680

SKIN AND HEART INVESTIGATED TO DETERMINE ACTION
POTENTIAL OF MUSCLE GROUPS A64-24: A64-24825 WHITE, S. C.
MAN AND THE SPACE ENVIRONMENT WITH RESUME OF PRESENT KNOWLEDGE
A64

A64-14092 WHITE, W.

INCREASED AND ZERO GRAVITY EFFECTS ON HUMAN VISION FOR MANNED SPACE FLIGHT A64-10628

HISTORY OF DEVELOPMENT AND USES OF HUMAN CENTRIFUGE IN AEROSPACE MEDICINE

EFFECTS OF TRANSIENT WEIGHTLESSNESS ON BRIGHTNESS DISCRIMINATION - VISUAL PERCEPTION

CAL -VH-8137-E N64-18937 WHITESIDE, C. K., JR.
INFLIGHT TOXIC HAZARD IN USAF C-54 RESULTING FROM
FUMES FROM FLUOROCARBON RESIN PYROLYSIS

A64-22065

INFLIGHT TOXIC REACTIONS RESULTING FROM FLUOROCARBON RESIN PYROLYSIS A64-

A64-80637

WHITESIDE, T. C. D.
VISUAL PERCEPTION OF MOVEMENT AND ILLUSIONS
CONSIDERED FROM VIEWPOINT OF AEROSPACE MEDICINE
A64-8021

HUMAN BEHAVIOR - VISUAL PERCEPTION OF MOTION FPRC/MEMO-191 N64-25842

HUMAN EYE REFLEX RESPONSE TO VERTICAL ACCELERATION AND RELATIONSHIP TO LABYRINTH - ELEVATOR ILLUSION FPRC-1213 N64-25846

VISUAL ILLUSIONS DUE TO ACCELERATION AND EYE MOTION FPRC-1207 N64-25847

ELEVATOR ILLUSION - APPARENT MOTION OF VISUAL TARGET DURING VERTICAL ACCELERATION NASA-CR-59180 N64-33159

WHITLEY, J. D.
REACTION TIME AFFECTED BY NEUROMUSCULAR
JUNCTIONAL TRANSMISSION IN MUSCLES UNDER MAXIMAL
STRETCH
A64-81143

WHITLOCK, M.
ETHICS, ECONOMICS, AND ATTITUDES AS FACTORS IN
AIRCRAFT FLIGHT SAFETY N64-22042

WHITTINGHAM, C. P.
CARBOXYLATION MECHANISMS IN PHOTOSYNTHESIS —
PRODUCTION OF GLYCOLLATE FROM LABELLED GLUCOSE AS
FUNCTION OF CARBON DIOXIDE PARTIAL PRESSURE
ASR-3
N64-30570

WICK, E.
EMOTIONAL STRESS EFFECT ON BLOOD PRESSURE AND
PULSE RATE IN MAN
A64-B0641

MICK, R. L., JR.

DAMAGE RISK CRITERIA FOR HEARING LOSS OF PILOTS
FOR EXPOSURE TO NOISE LEVEL IN LIGHT AIRCRAFT

WICKE, J. D.

VISUAL EVOKED POTENTIALS CAUSED BY STIMULI OF
CONSTANT DURATION AND VARYING LUMINANCE AND BY
FLASHES

A64-26089

WIEBERS, J. E.
DECOMPRESSION OF MICE IN ATMOSPHERES CONTAINING
HELIUM OR ARGON IN PLACE OF NITROGEN TO TEST
HYPOXIC TOLERANCE OF ANIMALS
A64-20693

WIEGAND, K. L.
INFORMATION THEORY & HUMAN BEHAVIOR - LINEAR
RELATIONSHIP BETWEEN REACTION TIME AND UNCERTAINTY
IN INFORMATION PROCESSING TASKS
AMRL-TDR-63-89
N64-11439

TERM EXPECTATION AND UNCERTAINTY IN HUMAN DECISION BEHAVIOR
AMRL-TDR-63-118 N64-16799

WIENER, E. L.
VISUAL MONITORING PERFORMANCE AS INFLUENCED BY
SECONDARY TASK OF SIMPLE MENTAL ARITHMETIC
A64-8114

WIENS, A. N.
GROUND COMMUNICATORS INFLUENCE ON SPEECH DURATIONS
OF ASTRONAUTS
A64-13544

WIERERS, J. E.
DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES
CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN
A64-80499

MIERWILLE, W. W.
MAN-MACHINE TRACKING CONTROL SYSTEM OPTIMIZATION,
USING PREDICTED INPUT DISPLAY SYSTEM WITH FAST

TIME OUTPUT SOLUTION

464-24129

IMPROVEMENT OF HUMAN OPERATOR TRACKING PERFORMANCE IN MAN-MACHINE CONTROL SYSTEMS BY OPTIMUM FILTERING AND PREDICTION N64-21122

WILBUR, C. G.
PHYSICAL STRESS EFFECTS ON MUSCLE AND LIVER
GLYCOGEN CONTENT IN MICE A64-80015

WILCOTT, R. C.
HEAT EFFECT AND AROUSAL EFFECT ON SMEATING AND
ELECTRODERMAL RESPONSE OF HAND AND CHEST
A64-12937

MILDER, L.

BIOMEDICAL REQUIREMENTS & DESIGN CRITERIA FOR MANMACHINE SYSTEM CONFIGURATION FOR USE IN PROPOSED

AEROSPACE ENVIRONMENTAL CHAMBER

AEDC-TDR-63-256

N64-12226

WILDER, M.
ELECTRON TRANSFER BY ENERGY PRODUCING BIOCHEMICAL
FUEL CELL REACTIONS N64-19313

WILINSKI, F. T.
CYANOSIS, HEMATOLOGIC CHANGE, EYE AND NOSE
IRRITATION OF RAT AND DOG DUE TO VARYING
CONCENTRATION AND EXPOSURE OF TETRAFLUOROHYDRAZINE
A64-80970

WILKE, C. R.
SULFATE REDUCTION BY BACTERIA
UCRL-10966

N64-11987

WILKINSON, R. T.
AFTEREFFECT OF SLEEP DEPRIVATION ON VIGILANCE AND
CHOICE SERIAL REACTION RELATED TO DISTURBED
DIURNAL RHYTHM A64-12944

MENTAL AND VIGILANCE PERFORMANCE DURING INCREASED BODY TEMPERATURE A64-80272

WILLARD, M.
SPACECRAFT SURFACE STERILIZATION OF BACILLUS BY
SELF-STERILIZING FORMALDEHYDE PAINT - INTERNAL
STERILIZATION BY ETHLENE OXIDE A64-80463

WILLIAMS, C. G.
HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN
ACCLIMATIZED AND UNACCLIMATIZED STATES DURING
PHYSICAL EXERCISE IN HOT ENVIRONMENT
A64-8069

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION
OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT
COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE
A64-81008

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

WILLIAMS, E. W.
SYMPATHOADRENAL, ADRENOCORTICAL AND METABOLIC
EFFECTS OF SHORT DURATION HYPEROXIA

A64-19136

ENDOCRINE & METABOLIC EFFECTS OF SHORT DURATION HYPEROXIA SAM-TDR-64-6 N64-18917

WILLIAMS, H. L.
AUDITORY DISCRIMINATION OF IMPULSE AND CONTINUOUS
NOISE
A64-80021

SLEEP RESPONSES TO AUDITORY STIMULI AS FUNCTION OF SLEEP DEPRIVATION AND EEG STAGE OF SLEEP

A64-80316

ANOXIC GUINEA PIG AND CAT RESPIRATORY ACTIVITY
AND ELECTROENCEPHALOGRAM AS AFFECTED BY
DIPHENYLHYDANTOIN, TRIMETHADIONE, IODOACETATE, AND
RESERPINE A64-80800

- WILLIAMS. R. 8.

 EFFECT OF HORIZONTAL SINUSOIDAL OSCILLATION ON PSYCHOMOTOR PERFORMANCE OF HUMANS SERVICING SATURN V LAUNCH VEHICLE
 NASA-TM-X-53011
 N64-20591
- WILLIAMS, R. L.
 OPTICAL LENSES AND PROTECTION OF RABBIT EYE
 AGAINST BALLISTIC MISSILES
 A64-81045
- WILLIS, J. M.

 EFFECT OF ADDING BODY MOTION CUES, PROVIDED BY
 VEHICULAR MOTION, UPON THE INTERPRETATION OF
 OUTSIDE-IN AND INSIDE-OUT VISUAL DISPLAY

 A64-10260
- WILLS, R. D.
 INTERRELATIONSHIPS BETWEEN SERUM LIPIDS, SERUM
 LIPOPROTEINS, AND LIPOPROTEIN COMPOSITION
 N64-2286
 - COMPUTER ANALYSIS OF GAS-LIQUID CHROMATOGRAMS
 N64-22861
- WILSON, G. D.
 SOUNDPROOF ROOM PROVIDING MAXIMUM ATTENUATION IN
 SPEECH FREQUENCY RANGE A64-80610
- WILSON, R. B.
 SYSTEM DESIGNS APPROACH TO PERSONNEL RELIABILITY
 IN X-15 AIRCRAFT
 A64-22635
- WILSONCROFT, W. E.
 VISUAL AFTERIMAGE PROLONGED BY POST-STIMULATION
 CONDITION IN VISUAL FIELD A64-81076
- WILTSIE, D. P.
 NUTRITIONAL ACCEPTABILITY OF FREEZE-DEHYDRATED
 DIET FOR SPACE FLIGHT MISSION A64-80863
- WINCKEL, F.
 AUTOMATIC COMMAND CONTROL SYSTEM USING PHONETIC
 VOICE PATTERN RECOGNITION
 A64-26640
- WINDERS, R. L.
 METABOLIC STUDIES OF AMINO ACID IMBALANCE IN RATS
 EXPOSED TO COLD TEMPERATURES
 AAL-TDR-63-33
 N64-13632
- WINDLE, W. F.
 CENTRAL NERVOUS SYSTEM CHANGES OF RHESUS MONKEYS
 DUE TO ASPHYXIA DURING BIRTH
 N64-14600
- WINDMUELLER, H. G.
 SHORT PERIODS OF FOOD DEPRIVATION AND INCREASE
 IN URINARY RIBOFLAVIN OF HUMAN A64-80876
- WINDSOR, C. R.
 AMINO ACID COMPOSITIONS OF PROTEINOIDS
 N64-12944
- WING, J. F.
 PSYCHOLOGICAL RESEARCH ON SPEECH DISCRIMINATION
 AMRL-TDR-63-94
 N64-16805
- WING, M. E.
 RESPONSE OF OTOLITH ORGANS TO BODY TILT IN CAT
 A64-80217
- WINGROVE. R. C.
 MANUAL CONTROL OF APOLLO SPACECRAFT DURING
 ATMOSPHERIC ENTRY
 NASA-TN-D-2467 N64-27946
- WINTER, W. D.
 VALIDATION OF TWO MEASURES OF ANXIETY, AFFECT
 ADJECTIVE CHECK LIST AND PALMAR SWEAT INDEX
 A64-80069
- WINTERS, W. D.
 HORMONE CHANGES IN RESPONSE TO CENTRIFUGATION,
 VIBRATION, AND ISOLATION WITH RESTRAINT IN MONKEY
 A64-80115
- WINTERSTEIN, S. H.
 IMAGE QUALITY AND MILITARY TARGET RECOGNITION
 PERFORMANCE
 N64-10532

- WISNER, A.
 PHYSICAL AND PSYCHOPHYSIOLOGICAL ASPECTS OF NOISE
 AS RELATED TO VIGILANCE A64-80719
- WISSEL, J. W.
 SINGLE MILITARY SPECIFICATION FOR HUMAN FACTORS IN
 WEAPON SYSTEMS
 A64-22592
- WIST, E. R.
 INTERRELATION BETWEEN PERCEIVED ABSOLUTE SIZE AND
 PERCEIVED ABSOLUTE DISTANCE
 A64-80139
- WITHERSPOON, J. D.
 DECOMPRESSION OF MICE IN ATMOSPHERES CONTAINING
 HELIUM OR ARGON IN PLACE OF NITROGEN TO TEST
 HYPOXIC TOLERANCE OF ANIMALS
 A64-20693
 - DECOMPRESSION OF MICE AND SURVIVAL IN ATMOSPHERES
 CONTAINING HELIUM OR ARGON IN PLACE OF NITROGEN
 A64-80499
- WITKIN, H. A.
 SPATIAL ORIENTATION WITHIN ROTATING ROOM AS
 DETERMINED ON TILTING CHAIR AND ROD-AND-FRAME
 TESTS
 A64-81329
- WITSOE, D.
 IMPEDANCE PLETHYSMOGRAM MEASUREMENT OF HEART
 OUTPUT
 SAM-TDR-64-23
 N64-27493
- WITTELS, B.

 CORONARY CIRCULATION AND HEART METABOLISM IN MAN
 EXPOSED TO DRY HOT ENVIRONMENT

 A64-80465
 - TRIGLYCERIDE CONCENTRATION IN MYOCARDIUM AND OXIDATION OF PALMITIC ACID DURING FASTING IN GUINEA PIG A64-80910
- MODON, J. L.
 BIOCHEMISTRY OF CONVULSIONS OF ECLAMPSIA AND
 EXPERIMENTAL DUPLICATION OF ECLAMPTIC INTOXICATION
 NASA-TT-F-9121
 N64-33400
- WOHLWILL, J. F.
 CHANGES IN DISTANCE JUDGMENTS AS RELATED TO
 CORRECTED AND NONCORRECTED PRACTICE
 A64-81137
- WOLCOTT, R. G.
 ADAPTIVE CONTROLLER-EQUIPMENT MODULE HUMAN
 CONTROLLER, SATELLITE COMPUTER, DISPLAYS AND
 CONTROLS FOR AIR TRAFFIC REGULATION
- WOLF, H. J.
 TEMPERATURE MAINTENANCE, CARBON DIOXIDE
 AVAILABILITY, NUTRIENT SUPPLY, AND CONSISTENT
 LIGHTING DILUTION DEVICE FOR CONTINUOUS CHLORELLA

N64-13005

A64-12976

- WOLF. J. J.
 DIGITAL COMPUTER SIMULATION OF MAN-MACHINE
 SYSTEMS, SIMULATING HUMAN OPERATOR STRESS, URGENCY
 CONDITIONS AND POINT OF BREAKDOWN
- WOLIN, L. R.
 OBJECTIVE MEASUREMENT OF VISUAL ACUITY BY NEW
 METHOD A64-80512
 - ELECTRORETINOGRAM AND ELECTROENCEPHALOGRAM OF VISUAL CORTEX IN MAMMAL DURING HYPOTHERMIA A64-81187
- WOLKEN, J. J.
 MICROSPECTROPHOTOMETRY
 N64-14740
- WOLLMAN, H.
 QUANTITATIVE INTERACTIONS OF INCREASED OXYGEN AND
 CARBON DIOXIDE TENSIONS UPON RESPIRATION IN MAN
 A64-80453
- WOLMAN, M.
 LIPID PEROXIDES ROLE IN HYPEROXIA EFFECT ON RAT
 CENTRAL NERVOUS SYSTEM N64-14607
- WOOD, D.
 ANALYSIS TECHNIQUES FOR NEUTRON FOIL AND GAMMA

DGSIMETRY AFSWC-TDR-62-107

N64-21523

MOOD, D. M.
AUTONOMIC LEVELS AND LABILITY - PERFORMANCE TIME
ON PERCEPTUAL AND SENSORIMOTOR TASKS

A64-80585

CONDITIONED HEART RESPONSE IN HUMAN IN RELATION TO CONTROLLED AND UNCONTROLLED RESPIRATION A64-81041

464-8104

MOOD, E. H.
ACCELERATION EFFECTS AND SOME PROTECTIVE METHODS
A64-80104

PARTIAL IMMERSION IN WATER EFFECT ON RESPONSE TO HEADWARD ACCELERATION A64-80116

FORWARD ACCELERATION EFFECT ON BLOOD OXYGEN IN ANESTHETIZED DOG BREATHING ROOM AIR AND BREATHING 99.6 PER CENT OXYGEN A64-80817

ACCELERATION STRESS MEASUREMENT ON CARDIO-RESPIRATORY SYSTEM BY DECREASES IN ARTERIAL OXYGEN CONCENTRATION AMRL-TDR-63-104 N64-16806

FUNCTIONS OF CIRCULATORY, RESPIRATORY, & NERVOUS

SYSTEMS IN HUMAN BODY
AMRL-TDR-63-105 N64-16807

PHOTOELECTRIC RECORDING APPARATUS AND MEASUREMENT
OF ACCELERATION TOLERANCE OF HUMAN HEAD
AMRL-TDR-63-106
N64-16808

TECHNIQUES FOR MEASURING INTRAPLEURAL AND PERICARDIAL PRESSURES IN DOGS
AMRL-TDR-63-107 N64-16809

WOOD, J. W.
FEASIBILITY OF PILOT CONTROL OF THE X-20/
TITAN III BOOSTER, GIVING RESULTS OF SIMULATION
WITH BOOST CONSTRAINTS
A64-12899

DYNA SOAR COCKPIT AND CREW PROTECTION SYSTEMS
DESIGN, NOTING IMPORTANCE OF PILOT PARTICIPATION
A64-24715

WOODHEAD, M. M.
NOISE BURST EFFECT ON PERFORMING TASK OF SEARCHING
VISUAL DISPLAY IN WHICH RANDOM NUMBERS WERE
PRESENTED AT RATE OF FIVE PER SECOND

FALLING EFFICIENCY AT SORTING CARDS AND WEIGHT LOSS DURING ACCLIMATIZATION AT 19,000 FEET IN HIMALAYAS A64-80915

WOODHULL, J. G.
MEASUREMENT OF STIMULUS COMPLEXITY IN HIGH
RESOLUTION SENSOR IMAGERY
AMRL-TOR-64-29
N64-26960

WOODRUFF, B.
HUMAN REACTION TO TORQUE REQUIRED FOR SUPPORT OF
MASS ON ROD WITH EXTENDED ARM AND HAND
TR-20
N64-27098

WOODS, K. R.
AMINO ACID COMPOSITIONS OF PROTEINOIDS

N64-12944

A64-16710

WOODWARD, A. A., JR.
HUMAN THERMAL ENVIRONMENT IN WET TROPICAL REGION,
EXAMINING PHYSIOLOGICAL AND PSYCHOMOTOR RESPONSES

664-2318

WOODWARD, C. C.
SEAT ESCAPE SYSTEMS FOR JET AIRCRAFT USING SOLID
FUEL ROCKET MOTOR IN COMBINATION WITH STANDARD
CATAPULT
A64-80838

MODLE, C. R.
PERCENTAGE CARBON MONOXIDE ABSORPTION AND RELATION
TO PULMONARY DIFFUSING CAPACITY

A64-B0900

WOOLLEY, D. E.
BRAIN GLYCOGEN CONCENTRATION CHANGES IN RATS
DURING HIGH ALTITUDE EXPOSURE
A64-13754

WORTZ, E. C.
PRESSURE SUIT COOLING USING LIQUID HEAT TRANSPORT
LOOPS WITH HEAT EXCHANGERS INSIDE ENVIRONMENTAL
SUIT
A64-27606

WRAY, W. S.
HUMAN TOLERANCE AND PILOT PERFORMANCE DURING LONG
ACCELERATIONS IN CENTRIFUGE
N64-15106

WRIGHT, H. N.
TEMPORAL SUMMATION PROCEDURE USED TO DETERMINE
BACKWARD MASKING AS FUNCTION OF TIME INTERVAL
BETWEEN SIGNAL AND NOISE ONSET
A64-19518

WRIGHT, J. W.
DISINSECTIZATION OF AIRCRAFT PASSENGER CABIN IN
TROPICAL AREAS
A64-81317

WRIGHT, N. M.
OBSERVATION OF POSITIVE SKEW IN REACTION TIME
DISTRIBUTIONS A64-80902

WRIGHT, R. A.
METABOLISM AND X-RAY SENSITIVITY OF CHICK EMBRYO
INCUBATED IN HELIUM-OXYGEN ATMOSPHERE

WRIGHT, W. K.
ENVIRONMENTAL TEST PROGRAM FOR MANNED SPACECRAFT
LIFE SUPPORT SYSTEMS
A64-23200

MU, W. L. S.
BIOLOGISTIC SPECIFICATIONS AND ENGINEERING
CONSTRAINTS ASSOCIATED WITH OPTIMUM LIFE SUPPORT
SYSTEM TO SATISFY 30-, 60- AND 100-DAY MANNED
ORBITAL SPACE MISSIONS
AIAA PAPER 63-164
A64-1664

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON METABOLIC APPROACH A64-80446

WUNSCHE, O.

DECOMPRESSION PHENOMENA IN MAN DURING ASCENT TO
HIGH ALTITUDE - INDUCTION IN SPECIFIC JOINTS AND
MUSCLES BY EXERCISE

A64-80411

FAT EMBOLISM DURING DECOMPRESSION
N64-12755

FAT EMBOLISM IN ANIMALS DURING DECOMPRESSION N64-12756

INTRAVASCULAR AIR BUBBLE FORMATION AFTER DXYGEN DECOMPRESSION IN ALBINO RATS WITH ELECTROLYTIC SALT SOLUTIONS IN PLASMA N64-15040

OXYGEN DECOMPRESSION SICKNESS RESULTS ON RATS APPLIED TO HUMAN RESPIRATION PHYSIOLOGY N64-15042

BIOLOGICAL EFFECT OF HIGH BLAST-FREE PRESSURE ON ALBINO RATS
DVL-359
N64-3234

WURTH, M. A.

RENEWAL & LOSS OF INTESTINAL EPITHELIUM CELLS IN

TURTLES STUDIED BY LABELLED TRITIATED THYMIDINE &

MITOTIC INHIBITING TECHNIQUE WITH COLCHICINE

N64-22077

WUSCHECH, H.
FREE FATTY ACIDS AND BLOOD SUGAR IN ATHLETES AFTER
GRADED PHYSICAL STRESS A64-81327

MYLER, E. N.

BENEFICIAL USES OF RADIATION EFFECTS - POWER,
ILLUMINATION, RADIOGRAPHY, TELETHERAPY, AND
TRACER TECHNOLOGY
REIC NEMO-25
N64-24967

IYNDHAM, C. H.
PHYSIOLOGICAL AND PSYCHOLOGICAL FACTORS ON
PERFORMANCE OF PHYSICAL WORK
A64-80399

PHYSIOLOGICAL REACTIONS OF MEN TO COLD IN

ANTARCTICA

A64-80695

HEAT REACTIONS OF CAUCASIANS AND BANTU MALES IN ACCLIMATIZED AND UNACCLIMATIZED STATES DURING PHYSICAL EXERCISE IN HOT ENVIRONMENT

A64-80696

HEAT REACTIONS OF ACCLIMATIZED AND UNACCLIMATIZED CAUCASIANS IN TEMPERATE, IN HOT AND DRY, AND IN HOT AND HUMID CLIMATES A64-80697

PHYSIOLOGICAL REACTIONS OF CAUCASIAN AND BANTU MALES IN ACUTE EXPOSURE TO COLD AND POSSIBLE RACIAL DIFFERENCE A64-80764

SKIN AND RECTAL TEMPERATURE AND OXYGEN CONSUMPTION OF CAUCASIAN FEMALE IN LOW TEMPERATURE ENVIRONMENT COMPARED TO CAUCASIAN AND NONCAUCASIAN MALE

SKIN TEMPERATURE, HEAT LOSS AND METABOLIC RATES OF BUSHMEN, BANTU, AND CAUCASIAN MALES EXPOSED TO A64-81011

PHYSIOLOGICAL EFFECT OF HEAT DURING EXERCISE AND REST IN ACCLIMATIZED AND NONACCLIMATIZED BANTU A64-81014

X

XINTARHS, C.
RESPIRATORY FREQUENCY AND TIDAL VOLUME OF GUINEA
PIGS INHALING LOW CONCENTRATIONS OF OZONE AND NITROGEN DIOXIDE AND OF RUNNING ACTIVITY OF MICE A64-80657

YAGOVDIK, M. Z.
TRACE ELEMENTS IN RADIATION DERMATITES JPRS-25502

N64-25198

YAGURA, S.
BODILY EFFECTS OF VERTICAL VIBRATION AT 400 CPM
AND 5 MM AMPLITUDE UPON WATER METABOLISM OF HEALTHY MALE SUBJECT 464-19170

VIBRATION STRESS AND ELECTROLYTE, CREATININE, AND URINE EXCRETION A64-80155

YAKOBI. AIRFLOW DIRECTION ON WING OF FLYING BIRD OBSERVED BY VANE AND SILK THREAD METHOD - AERODYNAMICS N64-18980

YAKOVLEY, A. M.
PROPEROIN CONTENT IN BLOOD SERUM OF PATIENTS WITH SEVERE BURNS N64-12767

YAKOVLEV, V. V. BLOOD CIRCULATION IN EARS OF DOGS AFTER SPACE **FLIGHT** N64-11675

COVLEVA, S. D. PROPERDIN CONTENT IN BLOOD SERUM OF PATIENTS WITH YAKOVLEVA, SEVERE BURNS N64-12767

YAKSLEIGER, G. A.
RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN
A64-8075 A64-80753

YAKUBAYTIS, E. A.
CYBERNETICS AND DEVELOPMENT OF COMPUTERS JPRS-25714 N64-27057

YAKUT, M. M. BIOLOGISTIC SPECIFICATIONS AND ENGINEERING
CONSTRAINTS ASSOCIATED WITH OPTIMUM LIFE SUPPORT
SYSTEM TO SATISFY 30-, 60- AND 100-DAY MANNED
ORBITAL SPACE MISSIONS

ATAA PAPER 63-164

BIOLOGISTICS FOR MANNED SPACE STATION BASED ON METABOLIC APPROACH A64-80446

YAMAGATA, M.
OTOLITH FUNCTIONS IN HUMANS AND ANIMALS IN RESPONSE TO LINEAR ACCELERATION

YAMAGUCHI, O.
MEDICAL PROBLEMS OF CIVILIAN AIR TRANSPORT A64-80158

YAMANAKA, Y.
HEAD MOVEMENTS OF VESTIBULAR ORIGIN REGULATED BY CENTRAL NERVOUS SYSTEM IN RABBIT

A64-80239

YAMASHITA, T.

FUNCTION OF FINGERS AND AUTOMATIC CONTROL OF ARTIFICIAL FINGERS FOR ENGINEERING

N64-15557

YANNOULIS, G.
NOISE STRESS AS CAUSE OF DECREASED ARTERIAL PRESSURE IN RETINA AND LINK TO VASOMOTOR REACTION A64-80952

YARMOLENKO, A. V.
FORMATION OF COMPLEX SPATIAL NOTIONS IN NORMAL AND PATHOLOGICAL SUBJECTS - ROLE OF SPEECH

N64-25143

YAROSHEVSKIY, M. G.
CYBERNETIC APPROACH TO PROBLEM OF SENSUAL IMAGE AND PERCEPTION JPRS-25761

YARDVITSKIY, N. V.
MATHEMATICAL METHOD FOR INVESTIGATING IMPULSE ACTIVITY OF CENTRAL NEURONS OF BRAIN

N64-19440

YAROVITSKYY, M. V.
COMPUTER ALGORITHM FOR ANALYZING IMPULSE ACTIVITY OF CENTRAL NEURONS N64-31538

JPRS-24961

YASDOVSKIY, V. I.
STRESS AND FATIGUE IN HUMAN BEHAVIOR DURING
ISOLATION FROM EXTERNAL STIMULI

N64-21288

YASUI, S.
SIMILARITY OF AUTOMATIC INTERPRETATION OF QRS
COMPLEX BY PATTERN RECOGNITION TECHNIQUE TO HUMAN
A64-80884

YAZDOVSKIY, B. I.
STRESS AND FATIGUE UNDER ISOLATED CONDITIONS FTD-TT-63-1015/16264 N64-21938

YAZDOVSKIY, V. I.
MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF
CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

CHOICE OF ANIMAL & LOGISTICS FOR BIOLOGICAL EXPERIMENTS IN SATELLITE N6 N64-11688

SPACE CABIN FOR HOUSING ANIMALS DURING SPACE FLIGHT N64-11689

BIOLOGICAL & PHYSIOLOGICAL INVESTIGATIONS CARRIED OUT ON DOGS IN PRESSURIZED SPACE CABIN DURING SPACE FLIGHT N64-N64-11696

PHYSIOLOGICAL REACTIONS OF COSMONAUTS DURING THE ACTION OF GRAVITY LOADS AND WEIGHTLESSNESS
JPRS-23917 N64-177 N64-17738

SPACE BIOLOGY AND MEDICINE

JPRS-24943

N64-21866

SPACE BIOLOGY AND MEDICINE - FIRST EXPERIMENTS N64-21867

SPACE BIOLOGY AND MEDICINE

N64-21868

SPACE BIOLOGY AND MEDICINE - ASTRONAUT TRAINING

N64-21869

HUMAN ADAPTATION TO CHANGING ENVIRONMENTAL FACTORS DURING SPACE FLIGHT JPRS-20673

N64-22258

A64-80256

ADAPTATION OF ORGANISMS TO WEIGHTLESSNESS AND MAXIMUM G-FORCES N64-23456

PROBLEMS OF SPACE BIOLOGY JPRS-25287

N64-23734

TRENDS OF SPACE BIOLOGY IN CONQUEST OF SPACE N64-23735

BIOLOGICAL AND PHYSIOLOGICAL STUDIES IN ROCKET AND SATELLITE FLIGHTS

PROBLEMS IN STUDYING EFFECT OF WEIGHTLESSNESS ON N64-23738

ENGINEERING PSYCHOLOGY OF SPACE FLIGHT

N64-23740

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

EFFECTS OF WEIGHTLESSNESS ON BLOOD CIRCULATION N64-27632

SPACE BIOLOGY AND MEDICINE - PROBLEMS ENCOUNTERED IN SPACEFLIGHT JPRS-26231 N64-28859

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE FI TOHTS

JPRS-26994 N64-32796

YEE, H.
LIFE SUPPORT SYSTEM REQUIREMENTS FOR ASTRONAUTS IN PLANETARY ENVIRONMENTS A64-80853

YEFREMOV, YU. 1. SAFETY MEASURES AGAINST RADIATION HAZARD DURING VOSTOK III AND IV SPACE FLIGHTS

NASA-TT-F-8823 N64-22936

YEFRONOYA, G. P. ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER PURIFICATION AND SANITATION JPRS-21975 N64-10386

YEGOROV. A. D. MATHEMATICAL METHODS APPLIED TO SPACE MEDICINE N64-23771

THEORY OF RANDOM FUNCTIONS APPLIED TO SPACE BIOLOGY AND MEDICINE N64-23772

YELISEYEV, V. G.
BIOPHYSICS, CHEMISTRY & CYTOLOGY FOR DETERMINATION
OF LIFE PHENOMENA N64-10329

HISTOPHYSIOLOGICAL CHANGES IN TISSUES AND INTERNAL ORGANS OF EXPERIMENTAL ANIMALS UNDER G-FORCES N64-23764

YELKINA, N. I. MINA, No. 1.
BIOCHEMICAL PROBE INTO ENERGY SOURCE COMPOUNDS,
ENZYME INHIBITORS, AND RADIOBIOLOGY

BIOSYNTHESIS OF UREA IN LIVER AND BLOOD PROTEIN FRACTION AFTER PLUTONIUM-239 INJURY

N64-12571

N64-12570

YELPATYEVSKAYA, G. N.
BIOMEDICAL CHARACTERISTICS OF GAMMA RADIATION
SICKNESS IN RATS JPRS-18153 N64-10744

HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL CHANGES IN DOGS DURING RECOVERY PERIOD FROM RADIATION SICKNESS

YEMELYANDY, M. D.
NERVOUS SYSTEM DATA - ANALYSIS OF HUMAN BEHAVIOR DURING SPACEFLIGHT

INTERACTION OF VISUAL, VESTIBULAR, AND MOTOR SENSE ORGANS UNDER SIMULATED FLIGHT CONDITIONS

N64-11522

PHYSIOLOGICAL INTERACTION OF SENSE ORGANS UNDER SPACE FLIGHT CONDITIONS N64-23741

YEMELYANDY, S. V.
AUTOMATIC CONTROL SYSTEMS WITH VARIABLE STRUCTURE HAVING DISCONTINUOUS SWITCHING FUNCTION N64-24706

THYROIDAL INFLUENCE ON SURVIVAL OF ALTITUDE EXPOSED ANIMALS, PROTECTIVE EFFECTS OF CORTISOL SAM-TDR-63-101 N64-15746

YENSEN, R. RELATIONSHIPS BETWEEN FOOD DEPRIVATION DURATION, BLOOD SUGAR LEVEL, AND MEAL COMPOSITION AND TASTE SENSITIVITY

YEREMENKO, I. V.
CIRCUIT FOR CYBERNETIC CONTROL OF REVERSIBLE HYPOTHERMIA PROCESSES JPRS-24504 N64-20012

YEREMENKO, L. F.
RESPIRATORY CENTER REFLEX EXCITABILITY CHANGES IN DOG INHALING OXYGEN A64-80753

YEROKHIN, YU. YE.
PIGMENTS IN PURPLE AND GREEN PHOTOSYNTHESIZING
BACTERIA - LUMINESCENT SPECTRA FTD-TT-63-867/182

YERSHOV, P. M.
HUMAN REACTIONS TO FEARED ELECTRIC SHOCK AND TO
PRETENDED PAINFUL STIMULUS SHOWN BY HEART RATE & OTHER PHYSIOLOGICAL CHANGES N64-31459

PHYSIOLOGIC MECHANISM FOR PERCEPTION OF KNOWLEDGE THROUGH SENSORY ORGANS IN MAN JPRS-19762 N64-11352

PHOTOELECTRONIC UNIT FOR BIOMEDICAL STUDY OF SPECTRAL DISPERSION OF CATECHOLAMINES

N64-24563

YESIPOVA: N. G.
RIBONUCLEIC ACID IN PROTEIN SYNTHESIS

N64-18330

YEVDOKYMOV, I. R. PROPAGATION OF ULTRASONIC WAYES IN BLOOD OF DOGS -DYNAMICS OF ACUTE RADIATION SICKNESS JPRS-21775 N64-10206

YEVSEYEVA, N. K.
CYANIDES AND NITRILES FOR RADIATION THERAPY -MEDICAL RADIOLOGY JPRS-26887 N64-32306

YIESLEY. W. EFFECT OF WEIGHTLESSNESS ON SINGLE CELLS NASA-CR-55656 N64-16326

YOSHIDA, M.
WATER TOXICITY STUDIES - ERYTHROCYTE AND
HENOGLOBIN RESISTANCE, AND CARBON DIOXIDE CONTENT NASA-TT-F-9125 N64-33401

YOSHIMOTO, C.
BLOOD, CARBON DIOXIDE, AND REGULATION OF RESPIRATION DURING EXERCISE A64-80455

YOSHIMURA, H. SKIN ROLE DURING ADAPTATION TO ENVIRONMENTAL CHANGES A64 A64-80417

YOUNG, D. R. METABOLIC CONSEQUENCES AND PHYSIOLOGICAL EFFECTS
OF EXTENDED SPACE MISSIONS FOR WHICH THERE IS NO
CAPABILITY FOR RE-SUPPLY OR CREW ROTATION

YOUNG, F. A. STATIC REFRACTORY ERROR OF CHIMPANZEE EYE UNDER

SERNYL ANESTHESIA ARL-TDR-64-9

N64-32026

YOUNG, I. M. DIAGNOSTIC USE OF HEARING TESTS

A64-80004

YOUNG, J. W.

FOOD PACKAGING AND HANDLING UNDER ZERO-G CONDITIONS OF SPACE

A64-22654

YOUNG, L. R.

SAMPLED DATA MODEL FOR EYE MOVEMENT CONTROL SYSTEM A64-11282

SAMPLED DATA MODEL FOR ACTION OF A CONTROL SYSTEM FOR DIRECTING HUMAN GAZE AT A MOVING TARGET A64-14354

OPERATOR ADAPTATION TO SUDDEN CHANGES IN CONTROLLED ELEMENT GAIN AND POLARITY BASED ON TRACKING ERROR AND RESPONSE TIME

A64-24127

ADAPTIVE DYNAMIC RESPONSE OF HUMAN OPERATOR IN SIMPLE MANUAL CONTROL N64-18734 NASA-TN-D-2255

ING, R. J. RESTRAINT APPARATUS FOR THORACIC ROENTGENOGRAPHIC EXAMINATION OF UNANESTHETIZED PRIMATES SAM-TDR-63-93

N64-12865

YOUNG, R. S.
FORMATION OF GUANINE DURING THERMAL POLYMERIZATION OF AMINO ACIDS A64-16287

BIOLOGICAL IMPLICATIONS AND BACTERIA RESPONSE TO SIMULATED MARTIAN CONDITIONS, DISCUSSING PRESENCE A64-18258

BEHAVIOR OF BACTERIA UNDER SIMULATED MARTIAN CONDITIONS AND POSSIBLE EFFECTS ON EXTRA-TERRESTRIAL LIFE A64-24948

DIURNAL FREEZE-THAWING AND SURVIVAL OF SELECTED N64-10989

MORPHOLOGY AND CHEMISTRY OF MICROSPHERES FROM PROTEINOID N64-22772 NASA-TM-X-51514

BACTERIA UNDER SIMULATED MARTIAN ENVIRONMENT N64-22777 NASA-TM-X-50873

YOUNG. W. PULMONARY FUNCTION AND EFFECT ON LUNG IN MAN BREATHING LOW CONCENTRATIONS OF OZONE

A64-80742

YUDIN, YE.

BIOLOGICAL RHYTHMS & ASTRONAUTICS

FTD-TT-64-26/1

N64-19768

BIOCHEMICAL INVESTIGATION OF BLOOD OF DOGS AFTER N64-11674 SPACE FLIGHT

PHYSIOLOGICAL RESPONSE OF CARDIOVASCULAR SYSTEM TO VIBRATION STRESS OF SPACE FLIGHT

N64-11698

PHYSIOLOGY OF DOG RESPIRATORY AND CARDIOVASCULAR SYSTEMS DURING STRESS OF ACCELERATION

N64-11699

EXCITABILITY OF HUMAN VESTIBULAR ANALYZER UNDER CONDITIONS OF SHORT TERM WEIGHTLESSNESS

N64-23749

MINIMUM ARTIFICIAL GRAVITY NEEDED TO PREVENT EFFECTS OF WEIGHTLESSNESS ON VESTIBULAR APPARATUS N64-23750

SENSITIVITY OF VESTIBULAR ANALYZERS AND SENSORY REACTIONS IN MAN DURING BRIEF WEIGHTLESSNESS N64-27633

PHYSIOLOGICAL REACTIONS OF ANIMALS DURING SPACE

FLIGHTS JPRS-26994

N64-32796

YUGOV, YE.
MEDICAL AND BIOLOGICAL PROBLEMS OF SPACE FLIGHT

AND EFFECT OF WEIGHTLESSNESS ON HUMANS

N64-23639

BEHAVIORAL EFFECTS IN PIGEONS EXPOSED TO MERCURY VAPOR

UR-ENG-49-7

YUKOVA, G. S.

MUTAGENIC AND ANTIMUTAGENIC ACTION OF VARYING
CONCENTRATIONS OF SODIUM GALLATE ON GERMINATING
SEEDS OF RUSSIAN BLACK HORSE BEANS, VICIA FABA
N64-17 N64-17805

YULDASHEV, K. YU.
AMINO ACID COMPOSITION OF PROTEINS

N64-18524

YUN-CHIU, W.
BODY TEMPERATURE REGULATORY SYSTEM OF WHITE RATS

BEFORE AND AFTER COLD ADAPTATION

N64-22879

YUNOSOV, A. YU.
HIGH TEMPERATURE ENVIRONMENT EFFECTS ON HUMAN AND
ANIMAL BLOOD COMPOSITION AND PROPERTIES

N64-10002

JPRS-21405

PATHOLOGICAL PHYSIOLOGY AND EXPERIMENTAL THERAPY - RADIATION SICKNESS, CONGENITAL DISEASE, AND

HETEROHEMOTRANSFUSION REACTIONS N64-10723

TEACHING OF PRINCIPLES INVOLVED IN BLOOD CLOTTING SYSTEM AND ITS DISORDERS - STUDY SCHEME

N64-12772

YURUGI. R. CHANGE OF GAS METABOLISM IN MAN DURING PHYSICAL EXERCISE IN LOW PRESSURE ENVIRONMENT

A64-19173

RESPIRATORY GAS CHANGES IN MAN DURING PHYSICAL

EXERCISE AT SIMULATED ALTITUDE A64-80157

YUSEVICH, Y. S.
ELECTROMYOGRAPHY OF HUMAN MUSCLE TONE IN NORMAL & PATHOLOGICAL STATES JPRS-22782

YUSUPOV, A. A. SOME DISTRIBUTION CHARACTERISTICS OF STRONTIUM 90 IN SKELETONS OF DOGS AFTER SINGLE AND LONG-TERM

DOSES JPRS-21997

YUYAMA, S.

POLYMERIZATION OF AMINO ACIDS TO GIVE PROTEINS AND FORMED MICROPARTICLES N64-19151

DYNAMIC PHENOMENA IN MICROSPHERES FROM THERMAL PROTEINOID N64-19825

ZABLOTSKII, L. L. ELECTROLYTIC DECOMPOSITION OF WATER IN WEIGHTLESS ENVIRONMENT TO OBTAIN DXYGEN, USING WASTE PRODUCTS

ZABLOTSKIY, L. L.
OBTAINING OXYGEN BY ELECTROLYTIC DECOMPOSITION OF WATER UNDER CONDITIONS OF WEIGHTLESSNESS

N64-23773

ZAGANESCU, F.
TANDEM FLIGHT OF VOSTOK V AND VI SPACECRAFT N64-10068 JPRS-21613

ZAGRIADSKII, V. P. ROLE OF DXYGEN ON HYPERCAPNIA AND ACCELERATION A64-81264 STRESS TOLERANCE

- ZAIM, R. H.
 AMIND ACID ESTERS OF 2-MERCAPTOETHYLAMINE FOR
 RADIATION PROTECTION
 A64-80909
- ZAJAC, J. L.

 DEPTH PERCEPTION LAWS OF BINOCULAR
 CORRESPONDENCE, DISPARITY, AND INTERSECTION OF
 VISUAL DIRECTIONAL LINES A64-80888
- ZAK, V. I.

 SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD

 N64-32782
- ZAKHARIANTS, IU. Z.
 MEIGHT LOAD EFFECT AND MOVEMENT SPEED ON
 COORDINATED ACTION OF ANTAGONIST PAIR OF
 MUSCLES IN HUMAN
 A64-81055

ELECTROMYOGRAPHIC CHARACTERISTICS OF MUSCLE
ACTIVITY WITH VARYING LOADS AND RATES OF
MOVEMENT IN HUMANS
A64-81315

- ZAKHARYEV, G. A.
 REMOVAL AND COLLECTION OF EXCRETA FROM DOGS IN
 PROLONGED EXPERIMENTS A64-80042
 - SANITARY DEVICES FOR ANIMALS IN SEALED SPACE CABIN N64-11693
- ZAKRZEWSKI, H.

 PHYSIOLOGICAL TELEMETRY METHOD DURING EXERCISE STUDY OF HEART AND RESPIRATORY RATE
- ZAKS, I. O.
 BLOOD SUBSTITUTION AND DXIDATION OF INTERMEDIATE
 METABOLIC PRODUCTS DURING RESUSCITATION AFTER
 CLINICAL DEATH
 N64-12768
- ZAKUSOVOF, V. V.

 PHARMACOLOGICAL PREPARATIONS HAVING PSYCHOLOGICAL
 EFFECTS
 JPRS-24475
 N64-19491
- ZALKIND, M. S.
 COMPARISON OF HUMAN & MACHINE SOLUTION TO DECISION
 PROBLEM WHERE PROBABILITY OF REINFORCEMENT
 VARIES CYBERNETICS
 N64-12527
- ZALUSKY, R.
 ERYTHROPOIESIS RESPONSE TO EXPOSURE OF ATMOSPHERE
 WITH INCREASED OXYGEN PARTIAL PRESSURE

 A64-22055
 - INCREASED DXYGEN PARTIAL PRESSURE EFFECT ON HEMATOPOIESIS A64-80625
- ZAMFIRESCU, N. R.
 CARDIOVASCULAR RESPONSE TO PASSIVE TILTING AT
 NORMAL AND ELEVATED TEMPERATURE WITH OR WITHOUT AN
 ANTI-G SUIT
 A64-80142
- ZANGWILL, D. L.
 AUTOKINETIC EFFECT INDUCED BY UNBALANCED FATIGUE
 OF DCULAR AND NECK MUSCLES A64-80072
- ZASKALKO, N. I.
 DIURNAL MITOTIC RHYTHM IN TISSUE CULTURES OF
 MONKEY KIDNEY
 A64-B0881
- ZAVALA, N. B.
 PULMONARY CIRCULATION IN HIGH ALTITUDE NATIVES
 A64-80183
- ZAVIALOV, E. S.
 ENGINEERING PSYCHOLOGY CONCEPTS FOR EVALUATING
 CLOSED OPERATOR SPACECRAFT CONTROL SYSTEMS
- ZAVYALOV, YE. S.
 PSYCHOPHYSIOLOGY OF ILLUSIONS OF SPATIAL POSITION
 OF AIRCRAFT IN INSTRUMENT FLYING
 N64-25158

- ZAYKO, N. S.
 EFFECT OF PROLONGED DXYGEN RESPIRATION ON TASTE
 SENSITIVITY
 N64-23695
- ZAZYKIN, K. P.
 TYPES AND METHOD OF ATTACHING ELECTRODES IN
 RECORDING ELECTROCARDIOGRAM DURING SPACE FLIGHTS
 N64-11710
 - RADIOELECTRONIC EQUIPMENT USED FOR MEDICAL AND BIOLOGICAL INVESTIGATIONS DURING SPACE FLIGHT JPRS-26081 N64-28062
- ZBARSKIY, I. B.
 BIOCHEMICAL TEMPLATING OF DESOXYRIBONUCLEIC ACIDRIBONUCLEIC ACID INTO PROTEIN
 JPRS-17811
 N64-10566
- ZBIECIOMA, I.

 ULTRASONIC EFFECT ON CENTRAL NERVOUS SYSTEM
 FUNCTION REFLECTED IN CHANGED SEROTININ METABOLISM
 IN RABBITS
 A64-80398
- ZEFELD, V. V.

 SPACECRAFT CABIN ARRANGEMENT EFFECTS ON ASTRONAUTS
 PSYCHIC AND PHYSICAL TONUS

 A64-25579
 - ENVIRONMENT OF SPACESHIP CABIN OR ORBITAL STATION
 N64-23745
- ZEFF, J. D.

 DXYGEN SUPPLY AND CARBON DIDXIDE CONTROL IN CLOSED FALLOUT SHELTER

 MRD-1242-2530

 N64-28141
- ZELIG, S.

 CENTRALLY EVOKED NYSTAGMUS IN ANIMALS SUBJECTED TO VESTIBULAR INFLUENCES INCLUDING MOTION SICKNESS DRUG

 A64-B0953
- ZEMAN, W.
 HISTOCHEMICAL DETERMINATION OF OXIDATIVE AND
 HYDROLYTIC ENZYMES ON RAT BRAIN TISSUE AND AMINO
 ACID CONSUMPTION IN MONKEYS AFTER HYPOXEMIA
 N64-14606
- ZENINA, I. N.
 SENSITIVITY OF CENTRAL NERVOUS SYSTEM OF RABBIT TO CONTINUOUS ULTRAHIGH FREQUENCY ELECTROMAGNETIC FIELD N64-32782
- ZERVINS, A.

 ERYTHROCYTES, LEUKOCYTES, AND HEMOGLOBIN OF MOUSE
 EXPOSED TO HOMOGENEOUS AND INHOMOGENEOUS MAGNETIC
 FIFLDS A64-80841
- ZHAK, M.

 POSSIBLE DIAGNOSTIC TECHNIQUE FOR DETERMINING
 BODY REACTION TO SMALL DOSES OF IONIZING RADIATION
 BY OBSERVING PHOSPHINE THRESHOLD OF RETINA
 N64-15679
- ZHELTAKOV, M. M.
 METHODS USED TO ADMINISTER ELECTRICALLY INDUCED
 SLEEP
 JPRS-23524
 N64-16002
- ZHELUDKOVA, T. N.
 ROLE OF OXYGEN ON HYPERCAPNIA AND ACCELERATION
 STRESS TOLERANCE A64-81264
- ZHEREBTSOV, L. D.
 STRUCTURE, PROPERTIES, AND PATHOLOGICAL CHANGES OF
 ELASTIC FIBROUS COMPONENTS OF CONNECTIVE TISSUE
 .1PRS-25252
 N64-26056
- ZHESTYANIKOV, V. D.
 RADIORESISTANCE OF THERMOTOLERANT STRAINS OF
 ESCHERICHIA BACTERIA N64-13696
- ZHIDKOVA, L. V.
 EXCRETION RATE OF RADIACTIVE SODIUM FROM RATS AND
 RABBITS FOR INTERNAL RADIATION DOSES CALCULATION
 N64-12434
 - EFFECT OF VANADIUM TRIOXIDE DUST ON ORGANISM TOXICOLGY N64-23368

ZHIGAREV, A.
HUMAN REACTIONS IN SIMULATED SPACE ENVIRONMENT
JPRS-19953 N64-11131

ZHIRONKIN, A. G.

DEVELOPMENT OF TOLERANCE TO TOXIC EFFECT OF OXYGEN EXCESS IN AMBIENT AIR BY HYPOXIC TRAINING IN PRESSURE CHAMBER

A64-81263

ZHIVOGLYADOV, V. P. STATISTICAL SOLUTION OF NONLINEAR SYSTEM

N64-24705

ZHOLKEVICH, V. N.

EFFICIENCY OF RESPIRATION AS ENERGY SOURCE IN
THERMOPHILIC PLANT
JPRS-21501
N64-10067

ZHUKOV-VEREZHNIKOV, N. N.
GENETIC EFFECTS OF SPACE RADIATION ON LYSOGENIC
BACTERIA, USING MICROBIOLOGY AND CYTOLOGY

MICROBIOLOGICAL AND CYTOLOGICAL INVESTIGATIONS OF CONDITIONS IN OUTER SPACE, & GENETIC EFFECTS OF SPACE FLIGHT N64-11670

MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL & BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND SOVIET SATELLITE N64-11687

LIFE AND SPACE ENVIRONMENT, AND TEST OF RELATIVITY
THEORY N64-16353

MUTATION-CLONE THEORY OF BURNET ANTIBODY FORMATION
N64-23455

MICROBIOLOGICAL AND CYTOLOGICAL STUDIES IN CONQUEST OF SPACE N64-23751

ZHUKOV, N. I.
INFORMATION THEORY - LENIN CONCEPT OF CAUSALITY
JPRS-26012 N64-27669

ZHUKOV, V. G.
PHYSIOLOGY OF ATTENTION - DYNAMICS OF LATENT
PERIODS OF MOTOR REACTION TO REPEATED STIMULI
JPRS-22892
N64-14147

ZHUKOVA, A. I.

MARTIAN CONDITIONS SIMULATED FROM ASTROPHYSICAL
DATA FOR MICROBIOLOGICAL INVESTIGATIONS

A64-18801

ZHUKOVSKIY, M. A.

SUMMARY OF PAPERS PRESENTED AT CONFERENCE ON
BIOLOGICAL AND MEDICAL RESEARCH RELATED TO
CHEMISTRY
JPRS-26845 N64-32164

ZHURAVLEV, A. V.

CHANGES IN TRANSITIONAL EPITHELIUM IN RATS AFTER
X-RAY IRRADIATION N64-14253

ZHURAVLEY, B. A.
MAINTENANCE OF LIFE CONDITIONS, AND MEDICAL &
BIOLOGICAL RESULTS OF EXPERIMENTS ABOARD SECOND
SOVIET SATELLITE
N64-11687

ZHURAYLEY, V. F.
TOXICOLOGY OF RADIOACTIVE IRON
FTD-TT-64-599/1

N64-33943

ZILBER, L. A.
TRANSLATIONS FROM ACADEMY OF SCIENCES USSR BIOLOGICAL SERIES
JPRS-19571 N64-11859

ZILBERTAT, YE. A.
COMPUTER SIMULATION OF HUMAN PHYSIOLOGY FOR
DIAGNOSIS OF HEART MALFUNCTION N64-23698

ZIMKIN, N. V.
EIGHT CONGRESS OF PHYSIOLOGY AND BIOCHEMISTRY OF
MUSCULAR ACTIVITY, HELD IN VOLGOGRAD, USSR
A64-81313

ORGANISM FUNCTIONS AND METABOLISM DURING PHYSICAL TRAINING A64-81333

ZINCHENKO, V. P.

CYBERNETIC FEATURES OF HUMAN OPERATORS IN
AUTOMATIC CONTROL SYSTEMS
JPRS-17544

N64-10695

PROBLEMS IN HUMAN ENGINEERING AND CYBERNETICS N64-10787

ZINK, D. L.
VISUAL OBSERVATIONS BY PILOTS OF AMERICAN AND
SOVIET SPACECRAFTS A64-10625

ZIRKLE, R. E.
EFFECTS OF X- AND GAMMA-IRRADIATION ON
EXPERIMENTAL ANIMAL SUBJECTS
N64-10935

ZISKIND, E.
SENSORY DEPRIVATION - ANALYSIS OF ELEMENTS LEADING
TO SYMPTOM FORMATION A64-80287

METHODOLOGICAL ARTIFACT DUE TO DIRECTIONS
IMPLICATED IN PRODUCTION OF SENSORY DEPRIVATION
EFFECTS A64-80676

ZITER, F. A.
SLEEP DEPRIVATION AS ACTIVATING PROCEDURE IN
ELECTROENCEPHALOGRAPHY A64-25557

ELECTROENCEPHALOGRAPHIC EFFECTS OF SLEEP
DEPRIVATION AS RELATED TO CONVULSIONS IN HEALTHY
AIR FORCE CREWS AND RECRUITS
A64-80947

ZNAMENSKAYA, A. N.
ROLE OF MOTOR AND VISUAL ANALYZERS IN FORMATION OF
CONDITIONED REFLEX RESPONSES TO SPATIAL POSITIONS
OF OBJECTS
N64-25144

ZOMMERS, I.

LIFE SUPPORT IN SPACE ENVIRONMENT - WASTE
DISPOSAL, OXYGEN PRODUCTION, AND FOOD SUPPLY
A64-81223

ZOSIMOVSKAYA, A. I.
MITOTIC CYCLE OF BONE MARROW CELLS IN MICE BY
AUTORADIOGRAPHY
JPRS-21629
N64-1000

ZOTIKOV, YE. A.
METHOD FOR DETECTING WEAK ANTIBODIES - INCREASED
SENSITIVITY N64-12771

ZUBEK, J. P.
PHYSICAL EXERCISES REDUCE BEHAVIORAL AND
PHYSIOLOGICAL IMPAIRMENT DURING PROLONGED
PERCEPTUAL DEPRIVATION A64-10093

PAIN SENSITIVITY AS MEASURE OF SENSORY DEPRIVATION TOLERANCE A64-12936

PERCEPTUAL MOTOR REACTIONS AFTER ONE WEEK PERIOD OF PERCEPTUAL DEPRIVATION A64-25346

SENSORY AND PERCEPTUAL DEPRIVATION EFFECTS ON BEHAVIORAL AND PHYSIOLOGICAL EFFECTS

A64-25432

TACTUAL ACUITY CHANGES AND INTERLIMB TRANSFER FOLLOWING OCCLUSION OF CIRCUMSCRIBED AREA OF SKIN A64-80796

ZUBER, J. P.
SENSORY AND PERCEPTUAL DEPRIVATION - ANALYSIS OF
EFFECTS ON HUMAN AND ANIMAL BEHAVIOR
A64-80382

ZUBKOV, A. A. EYE FATIGUE STUDY JPRS-24592

N64-20483

ZUBKOVA, S. R.
TESTS ON WHITE RATS TO INVESTIGATE RADIATION
PROTECTIVE EFFECT OF HISTAMINE WHILE BODY IS
INFLUENCED BY BIOGEN AMINES
A64-27581

ZUCKERMAN, M.
SUGGESTION AS POSSIBLE SOURCE OF REPORTED VISUAL
SENSATIONS IN PERCEPTUAL ISOLATION
A64-80510

PHYSIOLOGICAL AND VERBAL STRESS RESPONSES IN TOTAL AND PARTIAL PERCEPTUAL ISOLATION

A64-80513

PERCEPTUAL ISOLATION - ANALYSIS OF VARIABLES INSTRUMENTAL IN REPORTED VISUAL AND AUDITORY SENSATIONS A64-80897

ZUHRT, E.
SENSORY PHYSIOLOGICAL PHENOMENA FROM STANDPOINT OF INFORMATION THEORY
A64-80013

ZURABASHVILI, A. D.
NERVOUS SYSTEM SENSITIVITY TO INJURY IN RADIATION
THERAPY
JPRS-27289 N64-33975

ZURI. U.

CARBON DIOXIDE CONCENTRATION AS RELATED TO PHOTOSYNTHESIS IN MASS CULTURE OF ALGAE

A64-80608

ZUSY, D.

DIURNAL RHYTHM IN PHOTOSYNTHETIC CAPACITY AND CELL
DIVISION OF ALGA PHAEODACTYLUM TRICORNUTUM

A64-B1118

ZUYKOVA, YE. A.
HEMATOLOGICAL, BIOCHEMICAL, AND MORPHOLOGICAL
CHANGES IN DOGS DURING RECOVERY PERIOD FROM
RADIATION SICKNESS N64-32780

ZWISLOCK, J.
LOUDNESS FUNCTION OF 1000 CPS TONE IN PRESENCE OF MASKING NOISE
A64-B1166

ZWISLOCKI, J. J.
METHODS OF TESTING & MEASUREMENT OF NONORGANIC
HEARING IMPAIRMENT
AD-425085
N64-13615

ZYKOV, P.
LITERATURE REVIEW OF TELEVISION MICROSCOPY IN
BIOLOGY AND MEDICINE
JPRS-18229
N64-10501

ZYKOVA, A. S.
ATMOSPHERIC GAMMA RADIATION & CHLORINE FOR WATER
PURIFICATION AND SANITATION
JPRS-21975
N64-10386

ZYKOVA, V. I.

PERCEPTION OF SPATIAL RELATIONS BY SIXTH GRADE
CHILDREN DURING FIELD SURVEYING EXERCISES
N64-25152