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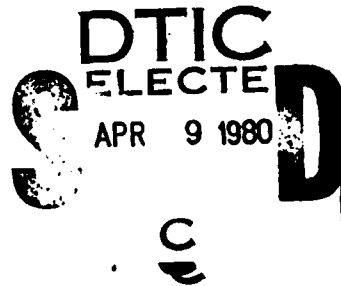


DTNSRDC LIBRARY SUBJECT THESAURUS

Preliminary Edition

by

Jo Anne E. Lappin
Shevra L. Martin
Norma Lee G. Dobay



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TECHNICAL AND ADMINISTRATIVE SERVICES DEPARTMENT

March 1980

DTNSRDC/TASD-80/01

80 4 7 023

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

①

REPORT DOCUMENTATION PAGE

READ INSTRUCTIONS BEFORE COMPLETING FORM

14

| | | |
|--|-----------------------|-------------------------------|
| 1. REPORT NUMBER DTNSRDC/TASD-80/01 ✓ | 2. GOVT ACCESSION NO. | 3. RECIPIENT'S CATALOG NUMBER |
|--|-----------------------|-------------------------------|

| | |
|--|---|
| 4. TITLE (and Subtitle) DTNSRDC LIBRARY SUBJECT THESAURUS | 5. TYPE OF REPORT & PERIOD COVERED Preliminary Edition |
| 6. PERFORMING ORG. REPORT NUMBER | |

10

| | |
|---|--------------------------------|
| 7. AUTHOR(s) Jo Anne E. Lappin Shevra L. Martin Norma Lee G. Dobay | 8. CONTRACT OR GRANT NUMBER(s) |
|---|--------------------------------|

| | |
|---|---|
| 9. PERFORMING ORGANIZATION NAME AND ADDRESS David W. Taylor Naval Ship Research and Development Center Bethesda, Maryland 20084 | 10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS |
|---|---|

| | |
|---|-------------------------------|
| 11. CONTROLLING OFFICE NAME AND ADDRESS | 12. REPORT DATE March 1980 |
|---|-------------------------------|

| | |
|---|---------------------|
| 14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) | 13. NUMBER OF PAGES |
|---|---------------------|

⑫ 7631

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| 15. SECURITY CLASS. (of this report) UNCLASSIFIED |
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| 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE |
|--|

16. DISTRIBUTION STATEMENT (of this Report)

APPROVED FOR PUBLIC RELEASE: DISTRIBUTION UNLIMITED

17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

DTIC ELECTED
APR 9 1980
S C D

18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

| | |
|------------------|--------------------|
| Thesaurus | Retrieval Terms |
| Hierarchy | Naval Architecture |
| Index Terms | Marine Engineering |
| Subject Indexing | |

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

The DTNSRDC Library Subject Thesaurus, which exists both as a printed document and as an on-line computer file, supports the indexing and retrieval functions of the library's automated storage and retrieval system. The hierarchical structure of the vocabulary permits generic retrieval. For example, a search on NAVAL VESSELS will retrieve documents that had been indexed under all naval ship types. Several "switching" relationships provide an automatic cross-referencing capability.

420 466

| <u>Symbol</u> | <u>Meaning</u> | <u>Explanation</u> |
|---------------|------------------|---|
| ABB | Abbreviation | The term preceded by ABB is an acceptable abbreviation for the lead term and may be entered as a substitute. For example: RADIOFREQUENCY ABB RF |
| AF | Abbreviation for | This is the reciprocal of the ABB relation. For example: SSTG AF SHIP SERVICE TURBOGENERATORS |

ACKNOWLEDGMENT

The authors are particularly indebted to the following members of the library staff who participated in the thesaurus development project: Alvetta Smythe, Margaret Bowman, Janet Brittle, Glenda Brooks, Norma Colhouer, Alfra T. Crawford, Sharon Dearstone, Shirley Lyons, Theodore Caryk, W. Gibson Paul, and Mary Vogel.

PREFACE

This is the preliminary edition of the DTNSRDC Library Subject Thesaurus. The best way to test the adequacy of a working thesaurus is to use it--both as a cataloging tool and as an aid to information retrieval. By the time this publication is released to the public, numerous revisions and corrections will have been recorded. The authors encourage feedback from catalogers, reference librarians, search analysts, subject specialists, and users. Kindly address your response to:

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| Unannounced Justification | <input type="checkbox"/> |
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ABSTRACT

The DTNSRDC Library Subject Thesaurus, which exists both as a printed document and as an on-line computer file, supports the indexing and retrieval functions of the library's automated storage and retrieval system. The hierarchical structure of the vocabulary permits generic retrieval. For example, a search on NAVAL VESSELS will retrieve documents that had been indexed under all naval ship types. Several "switching" relationships provide an automatic cross-referencing capability.

ADMINISTRATIVE INFORMATION

This work was authorized and funded under general expense.

INTRODUCTION

This publication is the printed version of the on-line subject thesaurus used in the Center library automated information retrieval system. The library data base, called TITLES (Taylor Information Tie-Line for Engineers and Scientists), automates several library functions including: cataloging, reference, circulation, interlibrary loan, shelf list control, and current awareness services. Output products include: union COM (Computer-output-microfiche) catalogs for five library branches, overdue notices, demand bibliographies, biweekly new accessions bulletins, and a Center reports catalog.

In order to create the subject thesaurus, the library acquired DDC* Retrieval and Indexing Terminology (DRIT) on tape, removed all cross-references, modified and built new subject hierarchies in the fields listed below, and then added selected new cross-references, related terms, and scope notes. Areas modified in DRIT include:

| | |
|------------------------|--------------------------|
| Ship design | Acoustics |
| Propeller design | Materials |
| Ship types | Structures |
| Fluid dynamics | Aerodynamics |
| Energy conservation | Fuels |
| Ship auxiliary systems | Marine propulsion plants |
| Pollution abatement | |

HOW THE THESAURUS IS USED

The key to understanding information retrieval in the library system is understanding the concept of a thesaurus. In its simplest form, a thesaurus is a list of terms which may be used to describe a particular aspect of a publication. A thesaurus is important to an information

*The Defense Documentation Center (DDC) is now the Defense Technical Information Center (DTIC).

system simply because people--authors, indexers, library clientele, and search analysts--use different terms to denote the same concept. For example, what an author might describe as "atmospheric pollution," a library user might ask for as "air pollution." What a library cataloger indexes under "residual fuels," a Navy man might look up under "bunker oils." The thesaurus tells those who are indexing documents and those who are searching for information the terms to use.

The thesaurus serves several functions in the library system. Library catalogers select descriptors from the thesaurus to index incoming library publications. When the data base is updated, all subject descriptors are validated against the on-line thesaurus file.

The library thesaurus is a special kind of thesaurus because it stores not only permitted terms, but also the terms' relationships to other terms. The following section describes these relationships.

Several "synonym-switching" relationships from the thesaurus are automatically duplicated in the index. These switching relationships generate messages during a retrieval session that refer users from nonused terms to similar but permitted terms.

By grouping terms into multilevel subject hierarchies, the thesaurus provides generic retrieval. Narrower and broader term relationships are "looked-up" by the system when new records are input. The system then "up-posts" a record to appear in the on-line index under every term defined in the thesaurus as "broader" to the assigned term.

It is important that documents be indexed by catalogers and searched for by users at the most specific level. If a term located in the thesaurus has lower level narrower terms (as indicated by an asterisk), the lower-level terms should be looked up. While the assignment of a specific term will always be retrievable under its broader terms, the reverse does not follow. For example, if a report about shale oil is indexed under the descriptor "shale oils," it would be retrieved in a query under "shale oils," "synthetic petroleum," "synthetic fuel," and "fuels." However, if this same report were assigned the general descriptor "synthetic fuels," then it would not drop out in a search under "shale oils" or "synthetic petroleum." The greater the specificity achieved in indexing, the higher will be the degree of precision possible in retrieval.

THESAURUS RELATIONSHIPS

The following list gives the symbols, meanings, and explanations used in the thesaurus.

| <u>Symbol</u> | <u>Meaning</u> | <u>Explanation</u> |
|---------------|----------------|--|
| LT | Lead term | Terms in the thesaurus are listed alphabetically; each alphabetic entry (lead term) displays its first level broader (BT) and narrower (NT) terms. |
| USE | Use | When a term is followed by an instruction to "use" another term, it means that the first term (lead term) is not used in indexing. USE references indicate either: |

| <u>Symbol</u> | <u>Meaning</u> | <u>Explanation</u> |
|---------------|---------------------------|--|
| | | (1) two terms are synonymous, or (2) only one form of a multiword term is used. For example: PRIME MOVERS USE PROPULSION UNITS(MARINE) HIGH EFFICIENCY USE EFFICIENCY |
| UF | Used for | This is the reciprocal of the USE relation; the lead term is the preferred term. For example: SHIPBOARD PIPING SYSTEMS UF SHIP PIPING SYSTEMS SHIP PIPING SYSTEMS USE SHIPBOARD PIPING SYSTEMS |
| USE AND | Use and | The lead term was not used in indexing; rather, multiple terms were used as indicated. For example: FATIGUE LOADING USE FATIGUE(MECHANICS) AND LOADS(FORCES) |
| USE(OR) | Use one term or the other | The lead term is ambiguous; select one or more of the indicated terms. For example: ENERGY USAGE USE ENERGY CONSUMPTION ENERGY DEMAND |
| NT | Narrower term | This identifies a generic or hierarchical relationship between terms. All "NT's" are members of the same family as the lead term, but at a lower level. When retrieving on a term that has "NT's," you automatically retrieve not only those documents about the selected term, but also documents about any of the terms defined as "NT" to the selected term. For example: SUBMARINES NT* ATTACK SUBMARINES BALLISTIC MISSILE SUBMARINES GUIDED MISSILE SUBMARINES |

| <u>Symbol</u> | <u>Meaning</u> | <u>Explanation</u> |
|---------------|-------------------------------|---|
| * | Lower level narrower terms(s) | <p>Under any lead term, only the first level narrower terms are printed. An asterisk preceding a narrower term indicates that the narrower term has lower level narrower terms. These other narrower terms may be found by looking up the first-level narrower term as a lead term. For example:</p> <p>POLLUTION NT* AIR POLLUTION LAND POLLUTION NOISE POLLUTION THERMAL POLLUTION * WATER POLLUTION</p> <p>WATER POLLUTION NT* OIL POLLUTION</p> <p>OIL POLLUTION NT OILY WATER</p> |
| BT | Broader term | <p>This is the reciprocal of the NT relationship. The lead term is a member, at a lower level, of each of the families of broader terms listed. In the printed thesaurus, only the first level higher BT is shown for any term. The display of more than one BT indicates that the lead term is a member of more than one hierarchy or sub-hierarchy. For example:</p> <p>PETROLEUM PRODUCTS BT FOSSIL FUELS ORGANIC MATERIALS</p> <p>GUIDED MISSILE FRIGATES BT FRIGATES GUIDED MISSILE SHIPS</p> |
| RT | Related term | <p>Related terms suggest other approaches that may be taken in conducting a search. For example:</p> <p>PROPELLER SHAFT HORSEPOWER RT PROPELLERS (MARINE) PROPELLER EFFICIENCY</p> |
| SN | Scope note | <p>A scope note tells a user how a term was used. For example:</p> <p>MONITORS (SHIPS) SN USED FOR STEEL COASTAL DEFENSE SHIPS 1889-WWI. SEE IRONCLADS FOR CIVIL WAR MONITORS.</p> |

SH-ACC
06/08/79

PAGE 1

A BAND

AA GUN
USE ANTI-AIRCRAFT GUNS

ABANDONMENT
NT BAILOUT
DITCHING
SUBMARINE ESCAPE

ABATEMENT
NT* POLLUTION ABATEMENT
SMOKE ABATEMENT
RT STOPPING

ABBREVIATIONS

ABDOMEN
BT ANATOMY

ABIOTIC PROCESSES

ABLATION

ABLATIVE MATERIALS
BT MATERIALS
NT ABLATIVE PAINTS

ABLATIVE PAINTS
BT ABLATIVE MATERIALS
PAINTS

ABM DEFENSE
USE ANTI-MISSILE DEFENSE SYSTEMS

ABNORMAL PSYCHOLOGY
BT PSYCHOLOGY
NT* MENTAL DISORDERS

ABNORMALITIES

ABO INCOMPATIBILITY
BT BLOOD GROUP DISORDERS

ABORT

ABORTION

ABRASION

ABRASIVE BLASTING
OF SAND BLASTING

ABRASIVE CLEANING
BT CLEANING

ABRASIVES

ABSCESSSES
BT INFECTIOUS DISEASES

ABSORBERS(EQUIPMENT)
NT SHOCK ABSORBERS

ABSORBERS(MATERIALS)

ABSORPTION
BT SORPTION

ABSORPTION COEFFICIENTS
NT GAMMA RAY ABSORPTION COEFFICIENTS

ABSORPTION CROSS SECTIONS
BT NUCLEAR CROSS SECTIONS
NT RADIATIVE CAPTURE CROSS SECTIONS

ABSORPTION SPECTRA
BT ELECTROMAGNETIC SPECTRA

ABSORPTION(RESONANCE)
USE RESONANCE ABSORPTION

ABSTRACTS
OF SUMMARIES
BT DOCUMENTS

ABUNDANCE

ABYSSAL ZONES

AC MOTOR
USE ALTERNATING CURRENT
AND ELECTRIC MOTORS

ACCELERATED TESTING
BT TEST METHODS

ACC-ACH
06/08/79

PAGE 2

ACCELERATION
BT VELOCITY
NT ANGULAR ACCELERATION
DECELERATION
HIGH ACCELERATION
IMPACT ACCELERATION

ACCELERATION TOLERANCE
BT TOLERANCES(PHYSIOLOGY)

ACCELERATOR DEVICES
USE PARTICLE ACCELERATORS

ACCELEROMETERS
BT MEASURING INSTRUMENTS

ACCEPTABILITY

ACCEPTANCE TESTS

ACCESS

ACCESS TIME

ACCIDENT INVESTIGATIONS

ACCIDENTS
NT AVIATION ACCIDENTS
DROWNING
MOTOR VEHICLE ACCIDENTS
REACTOR ACCIDENTS

ACCLIMATIZATION
BT ADAPTATION(PHYSIOLOGY)

ACCOUNTABILITY

ACCOUNTING
UF FINANCIAL ACCOUNTING

ACCUMULATION

ACCUMULATORS
NT HYDRAULIC ACCUMULATORS

ACCURACY

ACETAL RESINS
BT POLYMERS
THERMOPLASTIC RESINS
NT DELRIN

ACETALS

ACETAMIDES
BT AMIDES
NT ACETAZOLAMIDE

ACETATES
BT ESTERS
NT ETHYLENEDINITRILE TETRAACETATES
TRIACTIN

ACETAZOLAMIDE
BT ACETAMIDES
SULFUR HETEROCYCLIC COMPOUNDS

ACETIC ACID
BT FATTY ACIDS
NT IMINO DIACETIC ACID

ACETIC ANHYDRIDE
BT ANHYDRIDES

ACETONES
BT KETONES

ACETONITRILE
BT NITRILES

ACETOPHENONES
BT KETONES

ACETYL CHLORIDE

ACETYLATION
BT ACYLATION

ACETYLCHOLINE
BT CHOLINES

ACETYLCHOLINESTERASE
BT CHOLINESTERASE

ACETYLENE
BT ALKYNES

ACETYLENES
BT ALKYNES

ACHIEVEMENT TESTS

ACI-ACO
06/08/79

PAGE 3

ACID BASE EQUILIBRIUM
BT CHEMICAL EQUILIBRIUM

ACID CITRATE DEXTROSE

ACID CLEANING
BT CLEANING

ACID DEW POINT

ACID NUMBER
USE SAPONIFICATION NUMBER

ACID PHOSPHATASE
BT PHOSPHATASES

ACIDOSIS
BT METABOLIC DISEASES

ACIDS
NT ARSONIC ACID
BENZENEBOURNIC ACID
CARBAMIC ACID
GLYCOLIC ACID
HIPPURIC ACID
* INORGANIC ACIDS
ISOCYANIC ACID
KOJIC ACID
LINDOLEIC ACID
NICOTINIC ACID
* NUCLEIC ACIDS
* ORGANIC ACIDS
OXALACETIC ACID
PICRIC ACID
PYRUVIC ACID
* SUGAR ACIDS
TANNIC ACID
URIC ACID

ACNE
BT DERMATITIS

ACOUSTIC ABSORPTION
BT ACOUSTICS

ACOUSTIC ARRAYS
BT ACOUSTIC EQUIPMENT
ARRAYS
NT SONAR ARRAYS

ACOUSTIC ATTENUATION
BT ATTENUATION

ACOUSTIC BEAMS
BT BEAMS(RADIATION)

ACOUSTIC BUOYS
USE SONOBUDYS

ACOUSTIC CAMOUFLAGE
USE ACOUSTIC COUNTERMEASURES

ACOUSTIC CHANNELS
BT ACOUSTICS

ACOUSTIC COATINGS
BT ACOUSTIC MATERIALS
COATINGS
NT ACOUSTIC PAINTS

ACOUSTIC COMMUNICATIONS
BT COMMUNICATION AND RADIO SYSTEMS

ACOUSTIC COMPATIBILITY
BT COMPATIBILITY

ACOUSTIC COUNTERMEASURES
UF ACOUSTIC CAMOUFLAGE
SONAR COUNTERMEASURE TECHNIQUES
BT COUNTERMEASURES
NT ACOUSTIC DECOYS

ACOUSTIC DAMPING
USE ACOUSTICS
AND DAMPING

ACOUSTIC DATA

ACOUSTIC DECOYS
BT ACOUSTIC COUNTERMEASURES
DECOYS

ACOUSTIC DELAY LINES
BT ACOUSTIC EQUIPMENT
DELAY LINES

ACOUSTIC DETECTION
UF SONIC DETECTION
BT DETECTION
NT SEISMIC DETECTION

ACO-ACO
06/08/79

PAGE 4

ACOUSTIC DETECTORS

UF ACOUSTIC SENSORS
SOUND SENSORS
BT ACOUSTIC EQUIPMENT
DETECTORS
NT HYDROPHONES
SONOBUOYS

ACOUSTIC EMISSIONS

BT EMISSION

ACOUSTIC EQUIPMENT

UF AUDIO DEVICE
WIRELESS ACOUSTIC DEVICE
NT* ACOUSTIC ARRAYS
ACOUSTIC DELAY LINES
* ACOUSTIC DETECTORS
* ACOUSTIC FILTERS
ANECHOIC CHAMBERS
MEGAPHONES
* SONAR EQUIPMENT
* SOUND GENERATORS
* UNDERWATER SOUND EQUIPMENT

ACOUSTIC FATIGUE

USE SONIC FATIGUE

ACOUSTIC FIELDS

UF DIFFUSE SOUND FIELD

ACOUSTIC FILTERS

BT ACOUSTIC EQUIPMENT
FILTERS
NT OPTOACOUSTIC FILTERS

ACOUSTIC HOMING

BT HOMING

ACOUSTIC HORNS

BT SOUND GENERATORS

ACOUSTIC IMPEDANCE

BT ACOUSTIC PROPERTIES
IMPEDANCE

ACOUSTIC INSULATION

UF SOUNDPROOFING
BT ACOUSTICS
INSULATION

ACOUSTIC INTELLIGENCE

BT INTELLIGENCE

ACOUSTIC LENSES

BT LENSES

ACOUSTIC MATERIALS

BT MATERIALS
NT* ACOUSTIC COATINGS

ACOUSTIC MEASUREMENT

UF HIGH ACOUSTIC LEVELS
HIGH ACOUSTIC LOADS
BT MEASUREMENT

ACOUSTIC MINES

BT INFLUENCE MINES

ACOUSTIC MINESWEEPING

BT MINESWEEPING

ACOUSTIC NAVIGATION

BT NAVIGATION

ACOUSTIC NOISE

USE NOISE(SOUND)

ACOUSTIC OUTPUT

USE SOUND

ACOUSTIC PAINTS

BT ACOUSTIC COATINGS
PAINTS

ACOUSTIC PRESSURE

USE SOUND PRESSURE

ACOUSTIC PROPAGATION

USE SOUND TRANSMISSION

ACOUSTIC PROPERTIES

UF SONIC PROPERTIES
BT PHYSICAL PROPERTIES
NT ACOUSTIC IMPEDANCE
ACOUSTIC REFRACTION
ACOUSTIC SIGNATURES
ACOUSTIC VELOCITY
SOUND PITCH
SOUND TRANSMISSION
ULTRASONIC PROPERTIES

ACO-ACQ
06/08/79

PAGE 5

ACOUSTIC RANGES
UF SONAR RANGES
BT RANGES(FACILITIES)

ACOUSTIC RECORDING SYSTEMS
BT ELECTRONIC RECORDING SYSTEMS

ACOUSTIC REFLECTION
UF SOUND REFLECTION
BT REFLECTION

ACOUSTIC REFRACTION
BT ACOUSTIC PROPERTIES
REFRACTION

ACOUSTIC RESONANCE

ACOUSTIC RESONATORS
BT RESONATORS

ACOUSTIC SCATTERING
UF DEEP ACOUSTIC SCATTERING LAYER
BT SCATTERING

ACOUSTIC SENSORS
USE ACOUSTIC DETECTORS

ACOUSTIC SIGNALS
BT SIGNALS
NT AUDITORY SIGNALS
* UNDERWATER SOUND SIGNALS

ACOUSTIC SIGNATURES
UF NOISE SIGNATURES
BT ACOUSTIC PROPERTIES
SIGNATURES

ACOUSTIC SILENCING
USE NOISE REDUCTION

ACOUSTIC SURVEILLANCE
BT SURVEILLANCE

ACOUSTIC TORPEDOES
BT TORPEDOES

ACOUSTIC TRACKING
BT TRACKING

ACOUSTIC TRANSMISSION
USE SOUND TRANSMISSION

ACOUSTIC TRIALS
RT SHIP TRIALS

ACOUSTIC VELOCITY
UF SOUND SPEED
SOUND VELOCITY
BT ACOUSTIC PROPERTIES
VELOCITY
RT MACH NUMBER

ACOUSTIC WARFARE
BT WARFARE

ACOUSTIC WAVES
UF GUIDED ACOUSTIC SURFACE WAVES
BT ELASTIC WAVES
NT INFRASONIC RADIATION
* SOUND WAVES
ULTRASONIC RADIATION

ACOUSTIC WINDOWS
BT WINDOWS

ACOUSTICS
UF FERROACOUSTICS
NT ACOUSTIC ABSORPTION
ACOUSTIC CHANNELS
ACOUSTIC INSULATION
BIOACOUSTICS
ELECTROACOUSTICS
GEOACOUSTICS
MAGNETOACOUSTICS
* SOUND
UNDERWATER ACOUSTICS
* UNDERWATER SOUND

ACOUSTOOPTICS

ACQUISITION
NT DATA ACQUISITION
* PROCUREMENT
TARGET ACQUISITION

ACQUISITION RADAR
BT RADAR
NT PERIMETER ACQUISITION RADAR

ACQ-ACT
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PAGE 6

ACQUISITIONS
BT LIBRARY SCIENCE

ACRIDINES
BT HETEROCYCLIC COMPOUNDS

ACROLEINS
BT ALDEHYDES

ACRONYMS

ACRYLATES
BT ESTERS
NT METHACRYLATES

ACRYLIC ACID

ACRYLIC RESINS
BT ACRYLONITRILE POLYMERS
THERMOPLASTIC RESINS
NT POLYACRYLAMIDES
POLYACRYLATES

ACRYLONITRILE POLYMERS
BT POLYMERS
NT* ACRYLIC RESINS

ACTINIDE SERIES
BT METALS
NT ACTINIUM
AMERICIUM
BERKELIUM
CALIFORNIUM
CURIUM
EINSTEINIUM
FERMIUM
LAWRENCIUM
MENDELEVIUM
NEPTUNIUM
NOBELIUM
PLUTONIUM
PROTACTINIUM
THORIUM
* URANIUM

ACTINIDE SERIES COMPOUNDS
NT ACTINIUM COMPOUNDS
PROTACTINIUM COMPOUNDS
THORIUM COMPOUNDS
* TRANSURANIUM COMPOUNDS
URANIUM COMPOUNDS

ACTINIUM
BT ACTINIDE SERIES

ACTINIUM COMPOUNDS
BT ACTINIDE SERIES COMPOUNDS

ACTINOBACILLUS
BT BRUCELLACEAE
NT ACTINOBACILLUS MALLEI

ACTINOBACILLUS MALLEI
BT ACTINOBACILLUS

ACTINOMYCES
BT ACTINOMYCETACEAE

ACTINOMYCETACEAE
BT ACTINOMYCETALES
NT ACTINOMYCES
NOCARDIA

ACTINOMYCETALES
BT BACTERIA
NT* ACTINOMYCETACEAE
* MYCOBACTERIACEAE
* STREPTOMYCETACEAE

ACTINOPODA
BT PROTOZOA
NT RADIOLARIA

ACTIVATED CARBON

ACTIVATED SINTERING
BT SINTERING

ACTIVATED SLUDGE PROCESS
BT SECONDARY SEWAGE TREATMENT
SLUDGE

ACTIVATION

ACTIVATION ANALYSIS
RT ANALYSIS

ACTIVATION ENERGY
BT ENERGY

ACTIVE DUTY

ACT-ADE
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ACTIVE IMMUNITY
BT IMMUNITY

ACTIVE SYSTEMS

ACTUATION

ACTUATORS
NT- EXPLOSIVE ACTUATORS
HYDRAULIC ACTUATORS
PNEUMATIC ACTUATORS

ACUITY
NT AUDITORY ACUITY
VISUAL ACUITY

ACUPUNCTURE
BT DIAGNOSIS(MEDICINE)
THERAPY

ACUTE RESPIRATORY DISEASE VIRUS
BT ADENOVIRUSES

ACV(AIR CUSHION VEHICLE)
USE AIR CUSHION VEHICLES

ACYLATION
BT CHEMICAL REACTIONS
NT ACETYLATION

ADAMANTANES
BT CURING AGENTS

ADAPTATION
NT* ADAPTATION(PHYSIOLOGY)
ADJUSTMENT(PSYCHOLOGY)

ADAPTATION(PHYSIOLOGY)
BT ADAPTATION
PHYSIOLOGY
NT ACCLIMATIZATION
DARK ADAPTATION

ADAPTERS
BT FITTINGS

ADAPTIVE COMMUNICATIONS
BT TELECOMMUNICATION

ADAPTIVE CONTROL SYSTEMS
BT ADAPTIVE SYSTEMS

ADAPTIVE FILTERS
BT FILTERS

ADAPTIVE SYSTEMS
NT ADAPTIVE CONTROL SYSTEMS

ADAPTIVE TRAINING
BT TRAINING

ADATOMS
BT ATOMS

ADDITION
BT NUMBER THEORY

ADDITION REACTIONS
BT CHEMICAL REACTIONS

ADDITIVES
NT ANTIOXIDANTS
FOAMING INHIBITORS
* FUEL ADDITIVES
LUBRICANT ADDITIVES
PAINT THINNERS
* PLASTICIZERS

ADDRESSING

ADEN GULF

ADENINE
BT PURINES
NT ADENOSINE

ADENOSINE
BT ADENINE

ADENOSINE PHOSPHATES
BT NUCLEOTIDES

ADENOVIRUSES
BT VIRUSES
NT ACUTE RESPIRATORY DISEASE VIRUS

ADENYL CYCLASE
BT ENZYMES

ADH-AER
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ADHESION
BT SURFACE PROPERTIES

ADHESIVE BONDED JOINTS
USE ADHESIVE BONDING
AND BONDED JOINTS

ADHESIVE BONDING
BT BONDING

ADHESIVE TAPES
BT ADHESIVES
TAPES

ADHESIVES
NT ADHESIVE TAPES
EPOXY RESINS
RUBBER ADHESIVES
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AIRMOBILE OPERATIONS

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BMD SYSTEMS
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BOATTAILS
BT AFTERBODIES
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BODIES
SN DO NOT USE. SELECT ONE OR MORE OF THE
FOLLOWING TERMS
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BOMB CARRIERS
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* BOMB HANDLING VEHICLES
BOMB HOISTS
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BOMB BAY DOORS
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BOMB COMPONENTS
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BOMB EJECTORS
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BT BOMB AUXILIARY EQUIPMENT
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BORON COMPOUNDS
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BORON HYDRIDES
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BRAKE LININGS
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BRUCELLA ABORTUS

BT BRUCELLA

BRUCELLA BRONCHISEPTICA

BT BRUCELLA

BRUCELLA MELITENSIS

BT BRUCELLA

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SN ENTER THE SPECIFIC TYPE OF PROCESS AS
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UF CLINGING FLOW
COANDA FLOW
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COANDA FLOW
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COAST DEFENSE SHIPS(1889-WW1)
USE MONITORS(SHIPS)

COAST GUARD
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COAST GUARD RESEARCH
BT MILITARY RESEARCH

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NT COHERENT OPTICAL RADIATION

COHERENT INFRARED LIGHT
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COHERENT LIGHT
USE COHERENT OPTICAL RADIATION

COHERENT OPTICAL RADIATION
UF COHERENT LIGHT
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COHERENT RADAR
BT RADAR

COHERENT RADIATION
BT RADIATION
NT* COHERENT ELECTROMAGNETIC RADIATION

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COKE

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BT EFFLUENTS

COLD FLOW

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BT FOG

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BT FORGING

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BT OPTICAL EQUIPMENT

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BT AVOIDANCE
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BT EMISSION SPECTRA
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NT* AEROSOLS
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BT SOUTH AMERICA
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BT POINT DEFECTS

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COLOR PHOTOGRAPHY

BT PHOTOGRAPHY

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BT SEPARATION

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BT TELEVISION SYSTEMS

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NT* DYES
* PIGMENTS

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AF COMPUTER OUTPUT MICROFORM

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BT INFORMATION CENTERS

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USE STORE SHIPS

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UF MILITARY SURVEILLANCE
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UF FIGHTING VEHICLES
BT MILITARY VEHICLES
NT SELF PROPELLED GUNS
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COMBATANT CRAFT

SN DO NOT USE. SELECT ONE OR MORE OF THE
FOLLOWING TERMS.
RT LANDING CRAFT
MINE COUNTERMEASURES CRAFT
PATROL CRAFT
RIVERINE WARFARE CRAFT

COMBATANT SHIPS

SN DO NOT USE. USE ONE OR MORE OF THE
FOLLOWING TERMS.
RT AIRCRAFT CARRIERS
BATTLESHIPS
CRUISERS
DESTROYERS
FRIGATES
OCEAN ESCORTS
PATROL SHIPS
SUBMARINES
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BT MATHEMATICAL ANALYSIS
RT ANALYSIS

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RT TOTAL ENERGY SYSTEMS

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- NI CUDAG(COMBINED DIESEL AND GAS)
- CODDGG(COMBINED DIESEL OR GAS)
- COGAG(COMBINED GAS AND GAS)
- COGAS(COMBINED GAS AND STEAM)
- COGOG(COMBINED GAS OR GAS)
- COSAG(COMBINED STEAM AND GAS)
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- RT PROPULSION STEAM TURBINES(MARINE)
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- BT CARTRIDGE CASES

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- UF INTERNAL COMBUSTION
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- NI AFTERBURNING
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- SN ALL AIR PASSAGES, BLOWERS AND OTHER
- EQUIPMENT REQUIRED TO FURNISH
- COMBUSTION AIR TO BOILERS.
- BT PROPULSION AUXILIARIES(MARINE)
- SHIPBOARD PIPING SYSTEMS
- RT AIR FILTERS
- DUCTS
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- BT SHIPBOARD PIPING SYSTEMS

COMBUSTION CHAMBER GASES

- BT GASES

COMBUSTION CHAMBER LINERS

- BT ENGINE COMPONENTS
- LININGS

COMBUSTION CHAMBERS

- BT CHAMBERS
- NT THRUST CHAMBERS

COMBUSTION CONTROLS

- RT BOILER CONTROLS

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- BT DEPOSITS
- NT FLY ASH
- RT COMBUSTION EFFICIENCY
- COMBUSTION PRODUCTS

COMBUSTION EFFICIENCY

- BT THERMAL EFFICIENCY
- NT BOILER EFFICIENCY
- RT BURNING RATE
- COMBUSTION DEPOSITS
- CONDENSER EFFICIENCY
- EXHAUST GASES
- FUEL CONSUMPTION
- HEAT OF COMBUSTION
- PROPELLANT COMBUSTION
- PROPULSION SYSTEM PERFORMANCE
- PROPULSIVE EFFICIENCY

COMBUSTION MODIFIERS

- USE ADDITIVES
- AND COMBUSTION

COMBUSTION PRODUCTS

- RT ASHES
- COMBUSTION DEPOSITS
- EXHAUST GASES

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- BT STABILITY

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- UF EXPANSION COMBUSTOR

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- BT ASTRONOMICAL BODIES

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COMPOSITE MATERIALS
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BT BOUNDARY LAYER

COMPRESSIBLE FLOW
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RT FLOW FIELDS

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COMPRESSOR STATORS

COMPRESSOR ROTORS
BT COMPRESSOR PARTS
ROTORS

COMPRESSOR STATORS
UF STATORS
BT COMPRESSOR PARTS

COMPRESSOR SURGE
USE COMPRESSORS
AND SURGES

COMPRESSORS
UF MULTISTAGE COMPRESSORS
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* COMPRESSOR PARTS
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COMPUTER PROGRAM DOCUMENTATION
BT COMPUTER PROGRAMS
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COMPUTER PROGRAM VERIFICATION

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UF MODULAR PROGRAMMING
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* COMPUTER PROGRAMMING
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UF COMPUTER MODELING
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DIGITAL SIMULATION
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* FIRE CONTROL COMPUTERS
GUIDANCE COMPUTERS
GUIDED MISSILE COMPUTERS
HYBRID COMPUTERS
* INPUT OUTPUT DEVICES
* MEMORY DEVICES
MICROCOMPUTERS
MINICOMPUTERS
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USE CIRCULAR ARC AIRFOILS

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CONCENTRATION(COMPOSITION)

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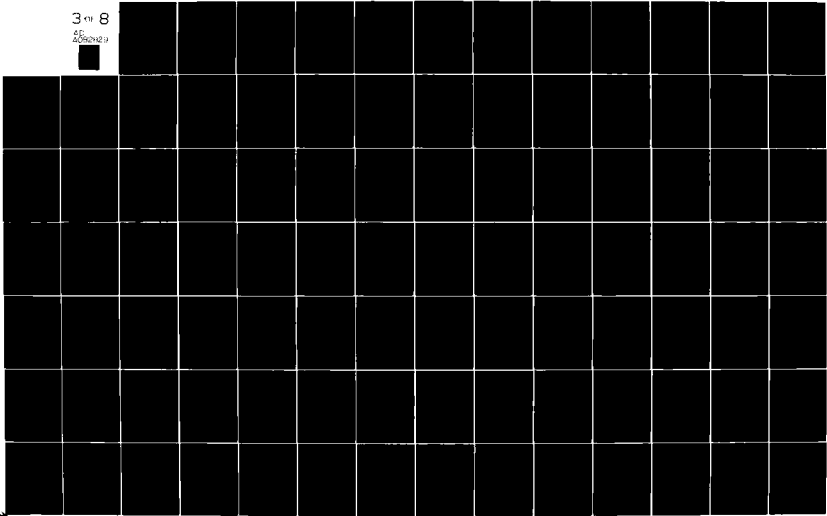
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FAILURE ANALYSES
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FAILURE(MECHANICS)
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FAILURE CURVES
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VANEAXIAL FANS
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KOREA
NEPAL
OUTER MONGOLIA
RYUKYU ISLANDS
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USE FAR INFRARED RADIATION
AND INFRARED LASERS

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BEAN PLANTS
RICE PADDIES
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FAST COMBAT SUPPORT SHIPS
USE SUPPORT SHIPS

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USE ESCORT SHIPS

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FAST MINESWEEPERS
USE MINESWEEPERS

FAST NEUTRON CROSS SECTIONS
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FAST OPTICAL SWITCHING
USE OPTICAL SWITCHING

FAST PATROL CRAFT
USE PATROL CRAFT

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FASTENERS
USE FASTENINGS

FASTENINGS
UF FASTENERS
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DOWELS
GROMMETS
HOOKS
* LOCKING FASTENER DEVICES
NAILS(FASTENERS)
NUTS(FASTENINGS)
SCREWS
WASHERS(SPACERS)
ZIPPER
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BT CELLS(BIOLOGY)

FATHOMETERS
RT DEPTH FINDERS

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FATIGUE DAMAGE SENSOR
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FATIGUE LIFE

FATIGUE LOADING
USE FATIGUE(MECHANICS)
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FATIGUE STATE
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FATIGUE TEST
USE FATIGUE TESTS(MECHANICS)

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UF FATIGUE TEST

FATIGUE(MECHANICS)
UF FATIGUE STATE
HIGH CYCLE FATIGUE
BT FATIGUE
MECHANICAL PROPERTIES
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UF MONOTONY
BT FATIGUE
PHYSIOLOGY

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BT LIPIDS

FATTY ACID ESTERS
BT ESTERS

FATTY ACIDS
BT ALIPHATIC ACIDS
CARBOXYLIC ACIDS
NT* ACETIC ACID
LINOLEIC ACID
LINOLENIC ACID
LIPOIC ACID
* OCTANOIC ACID
OLEIC ACID
* PROPIONIC ACID
STEARIC ACID

FAULT TOLERANT COMPUTING

FAULT TREE ANALYSIS

FAULT TREES
BT FAULTS

FAULTS
NT FAULTS(GEOLOGY)
FAULT TREES

FAULTS(GEOLOGY)
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STRUCTURAL GEOLOGY

FAYALITE

FBM SUBMARINE
AF BALLISTIC MISSILE SUBMARINES

FBM TARGET GUIDANCE SYSTEMS
USE FLEET BALLISTIC MISSILES
AND GUIDANCE

FE NI ALLOYS
USE IRON ALLOYS
AND NICKEL ALLOYS

FEAR
BT EMOTIONS

FEASIBILITY STUDIES
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FEATHERS
BT ORGANIC MATERIALS

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FOOD CONSUMPTION
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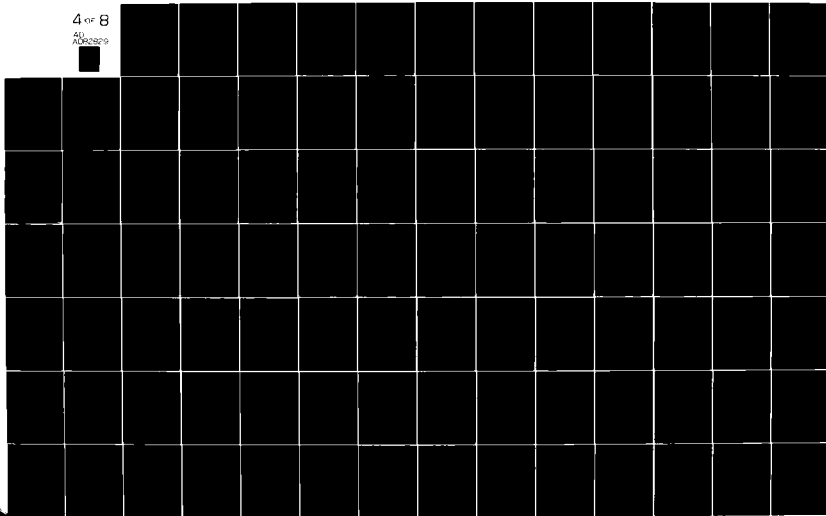
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BT LAMPS

HEADRESTS

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ORAL HEALTH
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HEAT AGING
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AND HEAT

HEAT BALANCE
UF THERMAL BALANCE

HEAT CONDUCTION
USE THERMAL CONDUCTIVITY

HEAT CONDUCTION CALCULATIONS
USE COMPUTATIONS
AND THERMAL CONDUCTIVITY

HEAT EFFICIENCY
USE THERMAL EFFICIENCY

HEAT ENERGY
USE THERMAL ENERGY

HEAT ENGINES
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NT* EXTERNAL COMBUSTION ENGINES

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UF HEAT TRANSFER APPARATUS
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HEAT EXTRACTION
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HEAT FLUX
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HEAT OF REACTION
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BT PIPES

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HEAT RESISTANT MATERIALS
UF HIGH TEMPERATURE MATERIALS
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* HEAT RESISTANT ALLOYS
HEAT RESISTANT GLASS
* HEAT RESISTANT METALS
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HEAT RESISTANT METALS
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NT* REFRACTORY METALS

HEAT RESISTANT PLASTICS
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HEAT TRANSFER
NT HEAT TRANSMISSION
THERMAL CONDUCTIVITY
RT HEAT EXTRACTION
HEAT FLUX

HEAT TRANSFER APPARATUS
USE HEAT EXCHANGERS

HEAT TRANSFER COEFFICIENTS
BT COEFFICIENTS
RT HEAT FLUX

HEAT TRANSFER RATES
USE HEAT TRANSFER
AND RATES

HEAT TRANSMISSION
UF FLOW OF HEAT
BT HEAT TRANSFER
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HEAT TREATMENT
NT ANNEALING
AUSTEMPERING
AUSTENITIZING
CARBURIZING
CASE HARDENING
CYANIDING
FIRING(CERAMICS)
PIT SOAKING
SOLUTION HEAT TREATMENT

(CONTD)

SPHERSIDIZING
STRESS RELIEVING
TEMPERING
TUFTRIDING
RT HEAT SEALING

HEATERS
NT AIRCRAFT HEATERS
AIRPLANE ENGINE HEATERS
AIR HEATERS
ARC HEATERS
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* FURNACES
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RADIANT HEATING PANELS
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RT PILOT LIGHTS

HEATING
NT AERODYNAMIC HEATING
GAS HEATING
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HEATING OILS
UF BURNER FUEL OIL
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HEATING PLANTS

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AND MANIPULATORS

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HEAVY ELEMENT COMPOUNDS
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HEAVY EQUIPMENT TRANSPORTERS
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HEAVY FUELS
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HEAVY HULL REPAIR SHIP
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HEAVY IONS

HEAVY MACHINERY REPAIR SHIPS
USE REPAIR SHIPS

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HEAVY PARTICLE RADIATIONS
BT RADIATION

HEAVY SONOBUOY REF
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HEAVY WATER REACTORS
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UF PREDETERMINED HEIGHT
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HELIBORNE FIRE CONTROL SYSTEMS
USE AIRCRAFT FIRE CONTROL SYSTEMS
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HELICAL SPRINGS
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HELICOPTER ROTORS
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HELIUM CADMIUM ULTRAVIOLET LASER
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AND ULTRAVIOLET EQUIPMENT

HELIUM COMPRESSORS
USE GAS COMPRESSORS
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HELIUM OXYGEN MIXTURES
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HELMHOLTZ RESONATORS
USE RESONATORS

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HEMATOLOGY
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* BLOOD

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HEMOPOIETIC SYSTEM
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NT* BONE MARROW
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BT VIRUSES
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HERTZIAN OSCILLATOR
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OXADIAZOLES
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* OXYGEN HETEROCYCLIC COMPOUNDS
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URIC ACID
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HETEROCYCLIC STRUCTURES
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HETERODYNE DETECTION
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HETERODYNING

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HF BAND
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HF COMMUNICATIONS
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AND HIGH FREQUENCY

HF PROPAGATION
USE HIGH FREQUENCY
AND PROPAGATION

HF RADIOWAVE PROPAGATION
USE HIGH FREQUENCY
AND RADIO BROADCASTING
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HF RECEIVERS
USE HIGH FREQUENCY
AND RECEIVERS

HF SIGNALS
USE HIGH FREQUENCY
AND SIGNALS

HIG ENVIRONMENT
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AND GRAVITY

HIBERNATION
BT DORMANCY

HIERARCHIES
BT CLASSIFICATION

HIGH ACCELERATION
BT ACCELERATION

HIGH ACOUSTIC LEVELS
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HIGH ACOUSTIC LOADS
USE ACOUSTIC MEASUREMENT

HIGH ACOUSTIC VELOCITY MATERIAL
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HIGH ALTITUDE
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HIGH AMPLITUDE ACOUSTIC SIGNAL
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HIGH ANGLE OF ATTACK
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BT ASPECT RATIO

HIGH ASPECT RATIO WINGS
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HIGH CAPACITY PROJECTILES
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HIGH CONCENTRATION POLYMER SUSPENSION
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HIGH CONDUCTIVITY COPPER
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AND ELECTRICAL CONDUCTIVITY

HIGH CONVERSION EFFICIENCY
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HIGH DATA RATE TERMINALS
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HIGH DENSITY ARRAY
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AND HIGH DENSITY

HIGH DENSITY ENERGY STORAGE
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AND HIGH DENSITY

HIGH DENSITY MEMORIES
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HIGH DETONATION RATES
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HIGH DIELECTRIC CONSTANT MATERIALS
USE CONSTANTS
AND DIELECTRIC PROPERTIES
AND MATERIALS

HIGH DISCHARGE RATES
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AND HIGH RATE

HIGH DRAG
USE DRAG

HIGH DYNAMIC PRESSURES
USE DYNAMIC PRESSURE
AND HIGH PRESSURE

HIGH DYNAMIC RANGE

HIGH EFFICIENCY
USE EFFICIENCY

HIGH ENDURANCE CUTTERS
USE CUTTERS(VESSELS)

HIGH ENERGY
SN FOR TERMS FREQUENTLY COMBINED WITH
THIS TERM, SEE DRIT UNDER HIGH ENERGY.
BT ENERGY

HIGH ENERGY BATTERIES
USE ELECTRIC BATTERIES
AND HIGH ENERGY

HIGH ENERGY DENSITY
USE HIGH DENSITY
AND HIGH ENERGY

HIGH ENERGY DENSITY BATTERIES
USE DENSITY
AND ELECTRIC BATTERIES
AND HIGH ENERGY

HIGH ENERGY DENSITY GAS GENERATORS
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AND GAS GENERATING SYSTEMS
AND HIGH ENERGY

HIGH ENERGY DENSITY PULSERS
USE HIGH ENERGY
AND PULSE GENERATORS

HIGH ENERGY FLUX
USE FLUX(RATE)
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HIGH ENERGY LASER AMPLIFIERS
USE HIGH ENERGY
AND LASER AMPLIFIERS

HIGH ENERGY LASER BEAMS
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HIGH ENERGY POWER SOURCES
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HIGH ENERGY PROPELLANTS
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HIGH ENERGY RATE FORMING
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HIGH ENERGY STORAGE MATERIALS
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AND MATERIALS

HIGH ENTHALPY FLOWS
USE ENTHALPY
AND GAS FLOW

HIGH EXPLOSIVE AMMUNITION
BT AMMUNITION

HIGH EXPLOSIVE ANTI-AIRCRAFT ROUNDS
USE ANTI-AIRCRAFT AMMUNITION
AND HIGH EXPLOSIVE AMMUNITION

HIGH EXPLOSIVE ANTI-TANK PROJECTILE
USE ANTI-TANK AMMUNITION
AND HIGH EXPLOSIVE AMMUNITION
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HIGH EXPLOSIVE TESTS
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HIGH EXPLOSIVES
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AND HIGH RATE

HIGH FIELD MAGNETS
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AND MAGNETS

HIGH FIELD STRESSES
USE ELECTRIC FIELDS
AND STRESSES

HIGH FIELD SUPERCONDUCTORS
USE HIGH INTENSITY
AND MAGNETIC FIELDS
AND SUPERCONDUCTORS

HIGH FIELD TUNNELING TRANSPORT
USE ELECTRIC FIELDS
AND TRANSPORT PROPERTIES
AND TUNNELING (ELECTRONICS)

HIGH FLUX MONOENERGETIC PHOTON BEAMS
USE FLUX (RATE)
AND PHOTON BEAMS

HIGH FRACTURE TOUGHNESS
USE FRACTURE (MECHANICS)
AND TOUGHNESS

HIGH FRAG PROJECTILE
USE FRAGMENTATION AMMUNITION
AND PROJECTILES

HIGH FREQUENCY
UF HIGH FREQUENCY APPROXIMATION
MEGAHERTZ OPERATION
BT RADIOFREQUENCY

HIGH FREQUENCY ACOUSTIC DEVICES
USE ACOUSTIC EQUIPMENT
AND HIGH FREQUENCY

HIGH FREQUENCY ACOUSTICS
USE ACOUSTICS
AND HIGH FREQUENCY

HIGH FREQUENCY ALTERNATORS
USE ALTERNATORS
AND HIGH FREQUENCY

HIGH FREQUENCY APPROXIMATION
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HIGH FREQUENCY MOTORS
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HIGH FREQUENCY TRANSMISSION
USE HIGH FREQUENCY
AND WAVE PROPAGATION

HIGH FREQUENCY WIND GENERATED WATER WAVES
USE HIGH FREQUENCY
AND WATER WAVES

HIGH GAIN
BT GAIN

HIGH GAIN PHASED ARRAY
USE HIGH GAIN
AND PHASED ARRAYS

HIGH GEAR WEIGHT
USE GEARS
AND WEIGHT

HIGH HARDNESS HIGH DENSITY POWDERS
USE HARDNESS
AND HIGH DENSITY
AND POWDERS

HIGH HEATING RATES
USE HEATING
AND HIGH RATE

HIGH HUMIDITY
BT HUMIDITY

HIGH IMPACT SHOCK TESTS
USE IMPACT SHOCK
AND TEST METHODS

HIGH INCIDENCE
USE OCCURRENCE

HIGH INTENSITY
BT INTENSITY

HIGH INTENSITY ELECTROMAGNETIC RADIATION
USE ELECTROMAGNETIC RADIATION
AND HIGH INTENSITY

HIGH LATITUDES
BT GEOGRAPHIC AREAS
LATITUDE

HIGH LEVEL LANGUAGES
BT PROGRAMMING LANGUAGES

HIGH LEVEL NOISE BACKGROUND
USE BACKGROUND NOISE
AND HIGH INTENSITY

HIGH LIFT
BT LIFT

HIGH LIFT DEVICES
BT BOUNDARY LAYER CONTROL

HIGH MECHANICAL STRENGTHS
USE HIGH STRENGTH
AND MECHANICAL PROPERTIES

HIGH MELTING POINTS
USE MELTING POINT

HIGH NEGATIVE CHARGE
USE ELECTRIC CHARGE

HIGH ORBIT TRAJECTORIES
BT ORBITS

HIGH OUTPUT
USE OUTPUT

HIGH OXYGEN CONCENTRATIONS
USE CONCENTRATION(CHEMISTRY)
AND OXYGEN

HIGH PASS FILTERS
BT BANDPASS FILTERS

HIGH PAY OFF FUNCTIONS
USE COST EFFECTIVENESS

HIGH PERFORMANCE
SN FOR HIGH PERFORMANCE THINGS NOT LISTED
HERE. USE THE SPECIFIC EQUIPMENT OR
MATERIAL USE ALLOYS. SEE ALSO
PERFORMANCE(ENGINEERING) AND EFFICIENCY.
NAME ONLY. I.E. FOR HIGH PERFORMANCE
ALLOYS,

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SYSTEMS
USE MAGNETIC MINESWEEPING
AND PERFORMANCE(ENGINEERING)

HIGH PERFORMANCE MISSILE PROPULSION SYSTEMS
USE GUIDED MISSILES
AND PROPULSION SYSTEMS

HIGH PERFORMANCE SHIP CONSTRUCTION
USE HIGH PERFORMANCE SHIPS
AND SHIPBUILDING

HIGH PERFORMANCE SHIP STRUCTURES
USE HIGH PERFORMANCE SHIPS
AND SHIP STRUCTURAL COMPONENTS

HIGH PERFORMANCE SHIPS
UF HIGH SPEED SHIPS
HYBRID MARINE VEHICLES
HYBRID SHIPS
LARGE HYDROFOIL HYBRID SHIPS
SMALL WATERPLANE AREA AIR CUSHION SHIPS
SMALL WATERPLANE AREA SINGLE HULL SHIPS
SWAACS(SMALL WATERPLANE AREA AIR
CUSHION SHIP)
SWASH(SMALL WATERPLANE AREA SINGLE
HULL)
BT SHIPS
NT* HYDROFOIL SHIPS
* MULTIHULL SHIPS
PLANING SHIPS
SURFACE EFFECT SHIPS

HIGH PERFORMANCE WEAPON SYSTEMS
USE WEAPON SYSTEMS

HIGH PERMITTIVITY
USE DIELECTRIC PROPERTIES

HIGH POWER
SN FOR HIGH POWER SYSTEMS OR DEVICES,
COMBINE HIGH POWER WITH DEVICE NAME.
BT POWER

HIGH POWER DENSITY LASERS
USE DENSITY
AND HIGH POWER
AND LASERS

HIGH POWER ENERGY LASER BEAMS
USE HIGH POWER
AND LASER BEAMS

HIGH POWER GENERATORS
USE ELECTRIC GENERATORS
AND HIGH POWER

HIGH POWER LASER BEAMS
USE HIGH POWER
AND LASER BEAMS

HIGH POWER LASERS
USE HIGH POWER
AND LASERS

HIGH POWER LOADS
USE ELECTRICAL LOADS
AND HIGH POWER

HIGH POWER LOW FREQUENCY
USE HIGH POWER
AND LOW FREQUENCY

HIGH POWER PHASE SHIFTERS
USE HIGH POWER
AND PHASE SHIFT CIRCUITS

HIGH POWER SOURCES
USE HIGH POWER
AND POWER SUPPLIES

HIGH PRESSURE
UF ULTRA HIGH PRESSURE
SN FOR HIGH PRESSURE EQUIPMENT OR
SUBSTANCES, COMBINE SPECIFIC NAME WITH
HIGH PRESSURE. I.E. HIGH PRESSURE AND
HYDRAULICS OR HIGH PRESSURE AND PUMPS.
BT PRESSURE
NT* HYPERBARIC CONDITIONS

HIGH PRESSURE COMPRESSORS
BT COMPRESSORS

HIGH PRESSURE LOADS
USE HIGH PRESSURE
AND LOADS(FORCES)

HIGH PRESSURE MARINE STEAM TURBINES
USE HIGH PRESSURE
AND MARINE STEAM TURBINES

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HIGH PRESSURE STEAM TURBINES
USE HIGH PRESSURE
AND STEAM TURBINES

HIGH PRESSURE VALVES
BT VALVES

HIGH PROBABILITY
USE PROBABILITY

HIGH RADIATION DOSAGE
USE HIGH INTENSITY
AND RADIATION DOSAGE

HIGH RADIATION FLUX
USE FLUX(RATE)
AND RADIATION

HIGH RATE
BT RATES

HIGH RELIABILITY
BT RELIABILITY

HIGH RESISTIVITY
USE ELECTRICAL RESISTIVITY

HIGH RESOLUTION
SN FOR HIGH RESOLUTION EQUIPMENT, COMBINE
HIGH RESOLUTION WITH EQUIPMENT NAME.
BT RESOLUTION

HIGH RISK
USE RISK

HIGH SEA STATES
USE SEA STATES

HIGH SEAS
USE OCEANS

HIGH SENSITIVITY
BT SENSITIVITY

HIGH SHOCK LOADS
USE LOADS(FORCES)
AND SHOCK

HIGH SPATIAL FREQUENCY
USE FREQUENCY RESPONSE
AND SPATIAL DISTRIBUTION

HIGH SPATIAL RESOLUTION IMAGES
USE HIGH RESOLUTION
AND IMAGES

HIGH SPEED
SN EXCEPT FOR TERMS BELOW STARTING WITH
HIGH SPEED. USE HIGH VELOCITY. FOR HIGH
SPEED EQUIPMENT, COMBINE EQUIPMENT NAME
WITH HIGH VELOCITY OR HIGH RATE.

HIGH SPEED BOMBING
BT BOMBING

HIGH SPEED CAMERAS
BT CAMERAS
NT ROTATING DRUM CAMERAS
ROTATING MIRROR CAMERAS
ROTATING PRISM CAMERAS
STREAK CAMERAS

HIGH SPEED COMMUNICATIONS
USE COMMUNICATIONS AND RADIO SYSTEMS
AND HIGH VELOCITY

HIGH SPEED COMPUTATIONAL CIRCUITS
USE HIGH RATE
AND LOGIC CIRCUITS

HIGH SPEED COMPUTERS
USE COMPUTERS
AND HIGH RATE

HIGH SPEED CUTTING TOOLS
USE CUTTING TOOLS
AND HIGH VELOCITY

HIGH SPEED DATA PROCESSING
USE DATA PROCESSING
AND HIGH RATE

HIGH SPEED DATA TERMINAL
USE DATA PROCESSING TERMINALS
AND HIGH VELOCITY

HIGH SPEED DATA TRANSMISSION
USE DATA TRANSMISSION SYSTEMS
AND HIGH RATE

HIGH SPEED ELECTRIC MOTORS
USE ELECTRIC MOTORS
AND HIGH VELOCITY

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HIGH SPEED LINE PRINTER
USE HIGH VELOCITY
AND PRINTERS(DATA PROCESSING)

HIGH SPEED MACHINERY
USE HIGH VELOCITY
AND MACHINES

HIGH SPEED MISSILES
USE GUIDED MISSILES
AND HIGH VELOCITY

HIGH SPEED PHOTOGRAPHY
BT PHOTOGRAPHY
NT FLASH RADIOGRAPHY
SCHLIEREN PHOTOGRAPHY
SPARK SHADOWGRAPH PHOTOGRAPHY

HIGH SPEED PROPELLERS
USE SUPERCAVITATING PROPELLERS

HIGH SPEED PUMPS
USE HIGH VELOCITY
AND PUMPS

HIGH SPEED SCHLIEREN PHOTOGRAPHY
USE HIGH SPEED PHOTOGRAPHY
AND SCHLIEREN PHOTOGRAPHY

HIGH SPEED SHIPS
USE HIGH PERFORMANCE SHIPS

HIGH SPEED SUBMARINE MOTIONS
USE HIGH VELOCITY
AND MOTION
AND SUBMARINES

HIGH SPEED TENSILE TESTING
USE HIGH VELOCITY
AND TENSILE PROPERTIES

HIGH SPEED TRANSPORTS
USE AMPHIBIOUS TRANSPORTS

HIGH SPEED VELOCITY LOG
USE HIGH VELOCITY
AND LOGS(VELOCITY METERS)

HIGH SPEED WATER ENTRY MISSILES
USE GUIDED MISSILES
AND HIGH VELOCITY
AND WATER ENTRY

HIGH SPIN
USE SPINNING(MOTION)

HIGH STABILITY
USE HIGH INTENSITY
AND STABILITY

HIGH STABILITY TEMPERATURE
USE HIGH INTENSITY
AND STABILITY
AND TEMPERATURE

HIGH STAGE PRESSURE RATIO
USE HIGH PRESSURE
AND RATIOS
AND STAGING

HIGH STRENGTH
BT STRENGTH(GENERAL)

HIGH STRENGTH ALLOYS
SN FOR HIGH STRENGTH ALLOYS NOT LISTED,
COMBINE ALLOY NAME WITH HIGH STRENGTH
ALLOYS.
BT ALLOYS
NT HIGH STRENGTH ALUMINUM ALLOYS
HIGH STRENGTH STEEL

HIGH STRENGTH ALUMINUM ALLOYS
BT HIGH STRENGTH ALLOYS

HIGH STRENGTH CERAMIC PARTS
USE CERAMIC MATERIALS
AND HIGH STRENGTH

HIGH STRENGTH MATERIALS
SN DO NOT USE. UNLESS LISTED AS A HIGH
STRENGTH ITEM HERE, COMBINE MATERIAL
NAME WITH HIGH STRENGTH, I.E. HIGH
STRENGTH AND PLASTICS.

HIGH STRENGTH STEEL
BT HIGH STRENGTH ALLOYS
STEEL

HIGH STRENGTH STEEL BEAMS
USE BEAMS(STRUCTURAL)
AND HIGH STRENGTH STEEL

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HIGH STRESS
USE STRESSES

HIGH TEMPERATURE
UF HIGH TEMPERATURE DEVICES
HIGH TEMPERATURE EFFECTS DATA
HIGH TEMPERATURE ENVIRONMENTS
HOT
BT TEMPERATURE

HIGH TEMPERATURE ALLOYS
USE HEAT RESISTANT ALLOYS

HIGH TEMPERATURE CERAMICS
USE CERAMIC MATERIALS
AND HIGH TEMPERATURE

HIGH TEMPERATURE CORROSION
USE CORROSION
AND HIGH TEMPERATURE

HIGH TEMPERATURE DEVICES
USE HIGH TEMPERATURE

HIGH TEMPERATURE EFFECTS DATA
USE HIGH TEMPERATURE

HIGH TEMPERATURE ENVIRONMENT SIMULATION
USE HIGH TEMPERATURE
AND SIMULATION

HIGH TEMPERATURE ENVIRONMENTS
USE HIGH TEMPERATURE

HIGH TEMPERATURE GAS TURBINES
USE GAS TURBINES
AND HIGH TEMPERATURE

HIGH TEMPERATURE MATERIALS
USE HEAT RESISTANT MATERIALS

HIGH TEMPERATURE POWER PRODUCTION
USE HIGH TEMPERATURE
AND POWER SUPPLIES

HIGH TEMPERATURE REACTIVITY
USE HIGH TEMPERATURE
AND REACTION KINETICS

HIGH TEMPERATURE STRENGTHENING MECHANISMS
USE HIGH TEMPERATURE
AND STRENGTH(MECHANICS)

HIGH TEMPERATURE TITANIUM ALLOY
USE HEAT RESISTANT ALLOYS
AND TITANIUM ALLOYS

HIGH TENSILE STEEL
USE STEEL
AND TENSILE PROPERTIES

HIGH TENSILE STRENGTH
USE HIGH STRENGTH
AND TENSILE STRENGTH

HIGH THREAT ENVIRONMENT
USE HIGH INTENSITY
AND THREATS

HIGH THRUST
USE THRUST

HIGH TRANSITION TEMPERATURES
USE HIGH TEMPERATURE
AND TRANSITION TEMPERATURE

HIGH VACUUM
BT VACUUM

HIGH VACUUM VALVES
BT VALVES

HIGH VELOCITY
BT VELOCITY

HIGH VELOCITY FLOW(OPEN CHANNELS)
USE SUPERCRITICAL FLOW

HIGH VISCOSITY
BT VISCOSITY

HIGH VOLTAGE
BT VOLTAGE

HIGH VOLTAGE DC POWER
USE DIRECT CURRENT
AND HIGH VOLTAGE

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HIGH VOLTAGE PHOTOVOLTAGE
USE HIGH VOLTAGE
AND PHOTOVOLTAIC EFFECT

HIGH VOLTAGE POWER
USE HIGH VOLTAGE
AND POWER

HIGH VOLTAGE POWER TRANSMISSION
USE ELECTRIC POWER TRANSMISSION
AND HIGH VOLTAGE

HIGH VOLTAGE PULSER
USE PULSE GENERATORS

HIGH VOLTAGE SWITCHES
USE ELECTRIC SWITCHES
AND HIGH VOLTAGE

HIGH YIELD CONVERSION
USE CONVERSION

HIGH YIELD STRENGTH
USE HIGH STRENGTH
AND YIELD STRENGTH

HIGHLY SKEWED PROPELLERS
USE SKEWED PROPELLERS

HIGHWAYS
BT ROADS

HILBERT SPACE
BT BANACH SPACE

HILSCH TUBES
BT TUBES

HINGES

HIP
NT BUTTOCKS

HIPPURIC ACID
BT ACIDS

HISTAMINE
BT AMINES
DRUGS

HISTIDINE
BT AMINO ACIDS

HISTOGRAMS
BT GRAPHS

HISTOLOGICAL TECHNIQUES
RT HISTOLOGY
MICROSCOPY
TISSUES(BIOLOGY)

HISTOLOGY
BT BIOLOGY
RT HISTOLOGICAL TECHNIQUES

HISTONES
BT PROTEINS(SIMPLE)

HISTOPLASMA
BT DEUTEROMYCETES(IMPERFECT FUNGI)

HISTORIANS
BT PERSONNEL

HISTORY
NT* MILITARY HISTORY
RT NAVAL HISTORY
STATE OF THE ART

HIT PROBABILITIES
BT INTERCEPTION PROBABILITIES

HMX
BT EXPLOSIVES

HOB POINT
USE BLAST
AND HEIGHT FINDING

HOG CHOLERA VIRUS
BT VIRUSES

HOISTS
BT MATERIALS HANDLING VEHICLES
POSITIONING DEVICES(MACHINERY)
NT BOMB HOISTS
CRANES
HELICOPTER HOISTS

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HOLDERS

NT ELECTRODE HOLDERS
RT SPLINES

HOLDING TANKS

BT STORAGE TANKS
RT SEWAGE STORAGE

HOLES(ELECTRON DEFICIENCIES)

BT CHARGE CARRIERS

HOLES(OPENINGS)

BT OPENINGS
NT BOREHOLES
* SLOTS

HOLMIUM

BT RARE EARTH ELEMENTS

HOLMIUM COMPOUNDS

BT RARE EARTH COMPOUNDS

HOLOGRAMS

HOLOGRAPHIC LENS SEEKER

USE HOLOGRAPHY
AND HOMING DEVICES
AND LENSES

HOLOGRAPHIC RECORDING

USE HOLOGRAPHY
AND PHOTOGRAPHIC RECORDING

HOLOGRAPHY

UF OPTICAL HOLOGRAPHY
RT FLOW VISUALIZATION(OPTICAL METHODS)

HOM ON JAM

BT HOMING

HOMEOSTASIS

HOMING

BT TERMINAL GUIDANCE
NT ACOUSTIC HOMING
HOMING DEVICES
HOM ON JAM
INFRARED HOMING
LIGHT HOMING
PROPORTIONAL NAVIGATION
RADAR HOMING
RADIO HOMING
TERMINAL HOMING

HOMING DEVICES

UF GUIDANCE SEEKERS
SEEKERS
BT HOMING

HOMING INTERCEPTOR TERMINAL

HOMING MISSILES

USE GUIDED MISSILES
AND HOMING

HOMING TORPEDOES

BT TORPEDOES

HOMING WEAPONS

USE HOMING DEVICES
AND WEAPONS

HOMODYNE DETECTION SYSTEM

USE DETECTION
AND HOMODYNE RADIO RECEIVERS

HOMODYNE RADIO RECEIVERS

BT RADIO RECEIVERS

HOMOGENEITY

HOMOGENEOUS MATERIALS

USE HOMOGENEITY
AND MATERIALS

HOMOGENEOUS REACTORS

BT NUCLEAR REACTORS

HOMOPOLAR GENERATORS

UF HOMOPOLAR MACHINES

HOMOPOLAR MACHINES

USE HOMOPOLAR GENERATORS

HONDURAS

BT CENTRAL AMERICA

HONEYCOMB CONSTRUCTION

USE HONEYCOMB STRUCTURES

HONEYCOMB CORES

BT STRUCTURAL MEMBERS

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HONEYCOMB PANELS
USE HONEYCOMB STRUCTURES
AND PANELS

HONEYCOMB SANDWICH PANELS
USE HONEYCOMB STRUCTURES
AND SANDWICH PANELS

HONEYCOMB STRUCTURES
UF HONEYCOMB CONSTRUCTION
BT STRUCTURES

HONG KONG
BT ISLANDS

HOODS
BT CLOTHING

HOOKS
BT FASTENINGS

HOOKWORM DISEASE
BT HELMINTHIC DISEASES

HORIZON

HORIZON SCANNERS
UF SCANNERS(HORIZON)
BT ATTITUDE INDICATORS
SCANNERS

HORIZONTAL ARRAY
USE ARRAYS
AND HORIZONTAL ORIENTATION

HORIZONTAL INDICATORS
UF HORIZONTAL NAVIGATION
BT ATTITUDE INDICATORS
NAVIGATIONAL AIDS

HORIZONTAL NAVIGATION
USE HORIZONTAL INDICATORS

HORIZONTAL ORIENTATION
SN FREQUENTLY COMBINED WITH A NOUN SUCH AS
I.E. LOADS(FORCES), THRUST, SURFACES,
ETC.
BT ORIENTATION(DIRECTION)

HORIZONTAL POSITION(WELDING)
USE WELDING POSITION

HORIZONTAL STABILIZERS
UF FIXED STABILIZER CONFIGURATION
BT STABILIZATION SYSTEMS

HORIZONTAL STRESSES
USE HORIZONTAL ORIENTATION
AND STRESSES

HORMONES
NT* ADRENAL CORTEX HORMONES
ADRENAL MEDULLA HORMONES
CALCITONIN
GASTRIN
GONADOTROPINS
* PANCREATIC HORMONES
PARATHYROID HORMONES
* PITUITARY HORMONES
PLANT HORMONES
PROSTAGLANDIN
* SEX HORMONES
THYROID HORMONES
THYROXINE

HORN ANTENNA ARRAY
USE ANTENNA ARRAYS
AND HORN ANTENNAS

HORN ANTENNAS
BT DIRECTIONAL ANTENNAS
MICROWAVE ANTENNAS

HORSEPOWER
BT POWER

HORSES
BT EQUINES

HORTICULTURE

HOSE COUPLINGS
BT COUPLINGS

HOSE FITTINGS
BT FITTINGS

HOSES
NT FUEL HOSES

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HOSPITAL SHIPS
BT SHIPS

HOSPITALS
BT MEDICAL SERVICES

HOSTILE
USE ENEMY

HOSTILE ANTIBALLISTIC MISSILE
USE ANTIMISSILE DEFENSE SYSTEMS
AND GUIDED MISSILES

HOSTILE ENVIRONMENTS
USE ENEMY
AND ENVIRONMENTS

HOSTILE WEAPONS
USE WEAPONS

HOSTS(BIOLOGY)

HOT
USE HIGH TEMPERATURE

HOT AIR BALLOONS
BT INTERMODAL TRANSPORTATION

HOT BONDING
BT BONDING

HOT CORROSION RESISTANCE
USE CORROSION RESISTANCE
AND HIGH TEMPERATURE

HOT CRACKING
USE CRACKING(FRACTURING)
AND HIGH TEMPERATURE

HOT FORGING
BT FORGING

HOT GASES
BT GASES

HOT PRESSING

HOT REGIONS
BT GEOGRAPHIC AREAS
NT SUBTROPICAL REGIONS
* TROPICAL REGIONS

HOT SPOTS

HOT WATER
BT WATER

HOT WEATHER
BT WEATHER

HOT WIRE
BT WIRE

HOT WIRE ANEMOMETERS
BT ANEMOMETERS

HOT WORKING
BT MECHANICAL WORKING

HOUSEHOLD GOODS

HOUSING PROJECTS
BT HOUSING(DWELLINGS)

HOUSING(DWELLINGS)
NT HOUSING PROJECTS

HOUSINGS(ENCLOSURES)

HOVERBARGES
USE AIR CUSHION BARGES

HOVERCRAFT
USE AIR CUSHION VEHICLES

HOVERFERRIES
USE SURFACE EFFECT VEHICLES

HOVERING
BT FLIGHT MANEUVERS

HOVERING CRAFT
USE AIR CUSHION VEHICLES

HOVERPLATFORMS
USE AIR CUSHION TRAILERS

HOVERPORTS
RT AIR CUSHION VEHICLES

HOVERTRAILERS
USE AIR CUSHION TRAILERS

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HOWITZERS
BT ARTILLERY
GUNS

HUB VORTEX CAVITATION
UF VORTEX CAVITATION

HUBS

HUDSON BAY
BT BAYS

HUGONIOT EQUATIONS

HULL COATINGS
USE COATINGS
AND HULLS(STRUCTURES)

HULL DESIGN
BT SHIP DESIGN
RT DESIGN

HULL EFFICIENCY
BT PROPULSIVE EFFICIENCY
RT HULLS(MARINE)
RELATIVE ROTATIVE EFFICIENCY
SHIP PERFORMANCE

HULL FLUID INTERACTIONS
USE FLUIDS
AND HULLS(MARINE)
AND INTERACTIONS

HULL GEOMETRY
USE GEOMETRY
AND HULLS(STRUCTURES)

HULL LOADS
USE HULLS(STRUCTURES)

HULL MATERIALS
USE HULLS(STRUCTURES)
AND MATERIALS

HULL METHOD
RT ANALYSIS

HULL PLATING
USE SHIP PLATES

HULL PROPELLER INTERACTION
USE PROPELLER HULL INTERACTION

HULL RESPONSE
USE HULLS(STRUCTURES)
AND RESPONSE

HULL SECTIONS
USE HULLS(MARINE)

HULL VIBRATION
UF SHIP HULL VIBRATION
SHIP SPRINGING
SHIP WHIPPING
RT SLAMMING

HULLS(MARINE)
UF HULL SECTIONS
INNER HULLS
BT HULLS(STRUCTURES)
NT* SHIP HULLS
* SUBMARINE HULLS
RT HULL EFFICIENCY
LENGTH BEAM RATIO

HULLS(STRUCTURES)
UF HULL LOADS
STRUCTURAL HULLS
NT FLYING BOAT HULLS
* HULLS(MARINE)
RT SHELLS(STRUCTURAL FORMS)

HUMAN BODY
UF BODIES(HUMAN)
BT ANATOMY
RT BODIES

HUMAN EFFLUVIA
BT EFFLUVIA

HUMAN ENGINEERING
USE HUMAN FACTORS ENGINEERING

HUMAN FACTORS ENGINEERING
UF HUMAN ENGINEERING
WHOLE MAN CONCEPT
RT MAN MACHINE SYSTEMS

HUMAN FACTORS ENGINEERS
BT ENGINEERS

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HUMAN FACTORS REQUIREMENTS
USE HUMAN FACTORS ENGINEERING
AND REQUIREMENTS

HUMAN RELATIONS
BT SOCIOLOGY
NT GROUP DYNAMICS
INTERPERSONAL RELATIONS
* RACE RELATIONS

HUMAN RESOURCES

HUMAN SURVIVABILITY
USE HUMANS
AND SURVIVAL (PERSONNEL)

HUMAN WASTE MANAGEMENT
USE SANITARY ENGINEERING

HUMANITIES

HUMANS
BT PRIMATES
NT ADULTS
CHILDREN
MEN
VOLUNTEERS
WOMEN
* YOUTH

HUMERUS
BT BONES

HUMIDIFIERS
RT COOLING AND VENTILATING EQUIPMENT

HUMIDITY
NT DEW POINT
HIGH HUMIDITY
LOW HUMIDITY

HUMIDITY CABINETS
BT CONTAINERS

HUNGARY
BT EASTERN EUROPE

HUNTER KILLER DESTROYERS
USE DESTROYERS

HUNTER KILLER GROUPS
BT ANTISUBMARINE WARFARE

HUNTER KILLER SUBMARINES
USE SUBMARINES

HURRICANE TRACKING
RT WEATHER FORECASTING

HURRICANES
BT STORMS
TROPICAL CYCLONES

HYACS (HYDROFOIL AIR CUSHION SHIP)
USE HYDROFOIL SHIPS

HYALURONATE LYASE
BT CARBON OXYGEN LYASES

HYBRID BATTERIES
USE ELECTRIC BATTERIES
AND HYBRID SYSTEMS

HYBRID CIRCUITS
BT CIRCUITS

HYBRID COMPOSITE MATERIALS
USE COMPOSITE MATERIALS
AND HYBRID SYSTEMS

HYBRID COMPUTERS
BT COMPUTERS

HYBRID ELECTRON BEAM SEMICONDUCTOR TUBE
USE ELECTRON BEAMS
AND ELECTRON TUBES
AND SEMICONDUCTORS

HYBRID ENGINES
SN DO NOT USE. USE EITHER HYBRID ROCKET
ENGINES OR A SPECIFIC TYPE OF ENGINE.
(SEE MARINE PROPULSION PLANTS
HIERARCHY) AND HYBRID PROPULSION.

HYBRID MARINE VEHICLES
USE HIGH PERFORMANCE SHIPS

HYBRID MEMORY
USE HYBRID SYSTEMS
AND MEMORY DEVICES

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HYBRID MISSILE SYSTEM SIMULATION
 USE GUIDED MISSILES
 AND HYBRID SIMULATION

HYBRID MODULE ELECTRONICS
 USE HYBRID SYSTEMS
 AND MODULES(ELECTRONICS)

HYBRID NAVIGATION SYSTEMS
 USE HYBRID SYSTEMS
 AND NAVIGATION

HYBRID POWER PLANTS
 USE ELECTRIC POWER PLANTS
 AND HYBRID SYSTEMS

HYBRID PROPELLANTS
 BT PROPELLANTS
 NT HYBRID ROCKET PROPELLANTS

HYBRID PROPULSION
 BT PROPULSION SYSTEMS

HYBRID PROPULSION LIFT DEVICES
 USE HYBRID PROPULSION
 AND LIFT FANS

HYBRID RADAR
 USE HYBRID SYSTEMS
 AND RADAR EQUIPMENT

HYBRID ROCKET ENGINES
 UF HYBRID ROCKETS
 ROCKET MOTORS(HYBRID PROPELLANT)
 BT ROCKET ENGINES

HYBRID ROCKET PROPELLANTS
 UF HYBRID ROCKET SYSTEMS
 BT HYBRID PROPELLANTS
 ROCKET PROPELLANTS

HYBRID ROCKET SYSTEMS
 USE HYBRID ROCKET PROPELLANTS

HYBRID ROCKETS
 USE HYBRID ROCKET ENGINES

HYBRID SHIPS
 USE HIGH PERFORMANCE SHIPS

HYBRID SIMULATION
 BT COMPUTERIZED SIMULATION

HYBRID SOLID STATE TECHNIQUES
 USE HYBRID SYSTEMS
 AND SOLID STATE ELECTRONICS

HYBRID SYSTEMS

HYBRID TRANSMISSION(MARINE)
 USE HYBRID SYSTEMS
 AND TRANSMISSION SYSTEMS(MARINE)

HYBRIDIZATION

HYDANTOINS
 BT AMIDES

HYDRATES

HYDRATION

HYDRAULIC ACCUMULATORS
 UF ENERGY ACCUMULATORS
 BT ACCUMULATORS
 HYDRAULIC EQUIPMENT

HYDRAULIC ACTUATORS
 BT ACTUATORS
 HYDRAULIC EQUIPMENT

HYDRAULIC ANALOGY
 RT FLOW VISUALIZATION

HYDRAULIC BRAKES
 BT BRAKES

HYDRAULIC CABLE CUTTER
 USE CABLE CUTTING DEVICES
 AND HYDRAULIC EQUIPMENT

HYDRAULIC CHECK
 USE HYDRAULIC EQUIPMENT
 AND INSPECTION

HYDRAULIC CIRCUIT BREAKER
 USE CIRCUIT BREAKERS
 AND HYDRAULIC EQUIPMENT

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HYDRAULIC COUPLINGS
BT COUPLINGS

HYDRAULIC CYLINDERS

HYDRAULIC EQUIPMENT
UF HYDRAULIC HEAD
HYDRAULIC SYSTEMS
NT HYDRAULIC ACCUMULATORS
HYDRAULIC ACTUATORS

HYDRAULIC FLIGHT CONTROL
USE FLIGHT CONTROL SYSTEMS
AND HYDRAULIC EQUIPMENT

HYDRAULIC FLUID FILTERS
BT LIQUID FILTERS

HYDRAULIC FLUIDS
BT LIQUIDS
NT BRAKE FLUIDS

HYDRAULIC HEAD
USE HYDRAULIC EQUIPMENT

HYDRAULIC JACKS
BT JACKS(LIFTS)

HYDRAULIC LINES
USE HYDRAULIC EQUIPMENT
AND PIPING SYSTEMS

HYDRAULIC MODELS
BT HYDRODYNAMIC CONFIGURATIONS
MODELS

HYDRAULIC NOISE
USE HYDRAULIC EQUIPMENT
AND NOISE(SOUND)

HYDRAULIC POWER
BT POWER

HYDRAULIC PRESSES
BT PRESSES(MACHINERY)

HYDRAULIC PRESSURE PUMPS
UF HYDRAULIC RAM
WATER JET PUMPS
BT PUMPS

HYDRAULIC PROPULSION SYSTEM
USE HYDRAULIC EQUIPMENT
AND PROPULSION SYSTEMS

HYDRAULIC PUMPS
USE PUMPS

HYDRAULIC RAM
USE HYDRAULIC PRESSURE PUMPS

HYDRAULIC RAM EFFECT

HYDRAULIC RATE EFFECT

HYDRAULIC SEALS
BT SEALS(STOPPERS)

HYDRAULIC SERVO MECHANISMS
BT SERVO MECHANISMS

HYDRAULIC SYSTEM FILTERS
USE FLUID FILTERS
AND HYDRAULIC EQUIPMENT

HYDRAULIC SYSTEMS
USE HYDRAULIC EQUIPMENT

HYDRAULIC TEST TUNNELS
USE WATER TUNNELS

HYDRAULIC TEST UNITS

HYDRAULIC TOOLS
USE HYDRAULIC EQUIPMENT
AND TOOLS

HYDRAULIC TRANSIENTS
UF FLUID TRANSIENTS
BT PIPE FLOW
UNSTEADY FLOW
NT SURGES
WATER HAMMER

HYDRAULIC TRANSMISSION LINES
USE HYDRAULIC EQUIPMENT
AND PIPING SYSTEMS

HYDRAULIC VALVES
BT VALVES
NT ELECTROHYDRAULIC VALVES

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HYDRAULIC WINCHES
USE HYDRAULIC EQUIPMENT
AND WINCHES

HYDRAZIDES

HYDRAZINE
BT LIQUID ROCKET PROPELLANTS
NT AEROZINE

HYDRAZINE AZIDE
USE AZIDES
AND HYDRAZINE DERIVATIVES

HYDRAZINE DERIVATIVES
NT* METHYL HYDRAZINES

HYDRAZINE GAS GENERATOR OPERATION
USE GAS GENERATING SYSTEMS
AND HYDRAZINE

HYDRAZINE MONOPROPELLANT GAS GENERATOR
USE GAS GENERATING SYSTEMS
AND HYDRAZINE
AND MONOPROPELLANTS

HYDRAZONES

HYDRIDES
NT* BOROHYDRIDES
* BORON HYDRIDES
CALCIUM HYDRIDES
* PHOSPHINE
* SILANES

HYDRO LYASES
BT CARBON OXYGEN LYASES
NT CARBONIC ANHYDRASE

HYDROACOUSTIC ARRAY
USE ARRAYS
AND UNDERWATER SOUND

HYDROACOUSTIC IMPULSE SOUND
USE IMPULSE NOISE
AND UNDERWATER SOUND

HYDROACOUSTIC PROPAGATION
USE SOUND TRANSMISSION
AND UNDERWATER SOUND

HYDROACOUSTICS
USE UNDERWATER SOUND

HYDROBALLISTICS
BT BALLISTICS
NT UNDERWATER BALLISTICS

HYDROBALLISTICS FACILITIES
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LASER WEAPONS
* LIQUID LASERS
MODE LOCKED LASERS
PHOTORECOMBINATION LASERS
PULSED LASERS
RING LASERS
* SEMICONDUCTOR LASERS
* SOLID STATE LASERS
TEA LASERS
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* GRENADE LAUNCHERS
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LAUNCH TUBES
* ROCKET LAUNCHERS
TORPEDO LAUNCHERS

LAUNCHING
NT AIR LAUNCHED
MULTILAUNCHING
ROCKET LAUNCHING
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BT ALLOYS

LEAD ANGLE
BT ANGLES

LEAD AZIDES
BT AZIDES

LEAD BURNING
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LEAD COMPOUNDS

LEAD DIOXIDE
BT DIOXIDES

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LEISHMANIASIS
BT PARASITIC DISEASES
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BT SIZES(DIMENSIONS)

LENGTH BEAM RATIO
UF LENGTH TO BEAM RATIO
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FLYING BOAT HULLS
HULLS(MARINE)
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SLENDER BODIES

LENGTH TO BEAM RATIO
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LUNEBERG LENS ANTENNAS

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NT* OILY WATER

OIL POLLUTION ABATEMENT
BT WATER POLLUTION ABATEMENT

OIL POLLUTION CONTAINMENT
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OIL POLLUTION CONTROL
BT WATER POLLUTION CONTROL
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BT WATER POLLUTION CONTROL EQUIPMENT
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OPAQUE ARMOR
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POLYMORPHONUCLEAR NEUTROPHILS
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PROPIONIC ACID

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UF PROPULSION SUPPORT
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SHIP PROPULSION AUXILIARIES
SHIP PROPULSION AUXILIARIES
SN USE FOR THOSE AUXILIARIES DIRECTLY
ASSOCIATED WITH A PROPULSION PLANT. NOT
TO BE CONFUSED WITH AUXILIARY PLANTS
NOR WITH AUXILIARY PROPULSION MOTORS
WHICH ARE NOT ASSOCIATED WITH
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UF GAS TURBINE MARINE PROPULSION SYSTEMS
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BT ELECTRIC PROPULSION
MOTORS
RT AUXILIARY PROPULSION MOTORS
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BT MARINE STEAM TURBINES
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PROPULSION SYSTEM CONTROL
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PROPULSION SYSTEM INTEGRATION
USE INTEGRATION
AND MARINE PROPULSION PLANTS
PROPULSION SYSTEM NOISE LEVELS
USE NOISE
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PROPULSION SYSTEM PERFORMANCE

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AND TRADE OFF ANALYSIS

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* MARINE PROPULSION
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* SPACE PROPULSION
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PROPULSION TEST EQUIPMENT

USE PROPULSION SYSTEMS
AND TEST EQUIPMENT

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AND PROPULSION SYSTEMS

PROPULSION UNITS(MARINE)

UF MARINE PROPULSION UNITS
PRIME MOVERS
SN MACHINERY OR EQUIPMENT MECHANICALLY,
ELECTRICALLY, OR HYDRAULICALLY
CONNECTED TO A PROPULSION SHAFT.
RT MARINE PROPULSION PLANTS
NT AIR MOTORS
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GASOLINE ENGINES
OUTBOARD MOTORS
PROPULSION DIESEL ENGINES(MARINE)
PROPULSION GAS TURBINES(MARINE)
PROPULSION STEAM TURBINES(MARINE)
SUBMARINE EMERGENCY PROPULSION
SUBMARINE SECONDARY PROPULSION

(CONTD)

RT* COMBINED CYCLE POWER PLANTS
ELECTRIC PROPULSION
MARINE BOILERS
MARINE ENGINES
PROPULSION AUXILIARIES(MARINE)
PROPULSOR SYSTEMS(MARINE)
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PROPULSIVE EFFICIENCY

UF PROPULSION EFFICIENCY
* PROPULSION SYSTEM EFFICIENCY
BT MECHANICAL EFFICIENCY
NT HULL EFFICIENCY
PROPELLER EFFICIENCY(OPEN WATER)
* PROPELLER EFFICIENCY
RELATIVE ROTATIVE EFFICIENCY
RT COMBUSTION EFFICIENCY
PROPULSION SYSTEM PERFORMANCE
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PROPELLER SHROUDS(MARINE)
PUMP JETS
WATER JET PROPULSION
RT PROPELLER EFFICIENCY
PROPULSION UNITS(MARINE)
* PROPULSIVE EFFICIENCY
TRANSMISSION SYSTEMS(MARINE)

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MECHANICAL ORGANS

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BT ACTINIDE SERIES
REFRACTORY METALS

PROTACTINIUM COMPOUNDS
BT ACTINIDE SERIES COMPOUNDS

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BT PROTEINS(SIMPLE)

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* PROTECTIVE EQUIPMENT
* PROTECTIVE TREATMENTS
* RADIATION PROTECTION

PROTECTIVE CLOTHING
BT CLOTHING
NT BODY ARMOR
COVERALLS
EXPOSURE SUITS
FIRE PROTECTIVE CLOTHING
FLAK SUITS
GASPROOF CLOTHING
HARD HATS
* HELMETS
PARKAS
PRESSURE SUITS
* PROTECTIVE MASKS
* UNDERWATER CLOTHING

PROTECTIVE COATINGS
UF ANTICORROSIIVE COATINGS
BT COATINGS
PROTECTIVE TREATMENTS
NT ANTIFOULING COATINGS
BARRIER COATINGS
FIRE RESISTANT COATINGS
REFRACTORY COATINGS
RUBBER COATINGS
RT CATHODIC PROTECTION

PROTECTIVE COVERINGS
NT POOLING

PROTECTIVE EQUIPMENT
BT PROTECTION
NT EAR PROTECTORS
VESTS

PROTECTIVE MASK CANISTERS
BT PROTECTIVE MASKS

PROTECTIVE MASK FACEPIECES
BT PROTECTIVE MASKS

PROTECTIVE MASK FILTERS
BT GAS FILTERS
PROTECTIVE MASKS

PROTECTIVE MASKS
UF FACE MASKS
BT BREATHING MASKS
MASKS
PROTECTIVE CLOTHING
NT GAS MASKS
PROTECTIVE MASK CANISTERS
PROTECTIVE MASK FACEPIECES
PROTECTIVE MASK FILTERS

PROTECTIVE SHIELDING
USE PROTECTION
AND SHIELDING

PROTECTIVE TREATMENTS
BT FINISHES
PROTECTION
TREATMENT
NT ANODIC COATINGS
CHROMIZING
FUNGUSPROOFING
MOISTUREPROOFING
MOTHPROOFING
PHOSPHATE COATINGS
* PROTECTIVE COATINGS
WATERPROOFING
WEATHERPROOFING

PROTEIN METABOLISM
BT METABOLISM

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NT* BLOOD PROTEINS
FERREDOXIN
GLUTEN
GLYCININ
INTERFERON
MUSCLE PROTEINS
* PROTEINS (CONJUGATED)
* PROTEINS (DERIVED)
* PROTEINS (SIMPLE)
SERUM PROTEINS
SOY PROTEIN

PROTEINS (CONJUGATED)

BT PROTEINS
NT* CHROMOPROTEINS
* GLYCOPROTEINS
HAPTOGLOBINS
LIPOPROTEINS
MUSCLE PROTEINS
NUCLEOPROTEINS
PHOSPHOPROTEINS

PROTEINS (DERIVED)

BT PROTEINS
NT GELATINS
* PEPTIDES
PEPTONES

PROTEINS (SIMPLE)

BT PROTEINS
NT* ALBUMINOIDS
* ALBUMINS
FIBROIN
* GLOBULINS
HISTONES
PROLAMINES
PROTAMINES

PROTEUS

BT ENTEROBACTERIACEAE
NT PROTEUS VULGARIS

PROTEUS VULGARIS

BT PROTEUS

PROTHROMBIN

BT BLOOD PROTEINS
ENZYME PRECURSORS

PROTON ACCELERATORS

BT PARTICLE ACCELERATORS

PROTON BEAMS

BT CORPUSCULAR RADIATION
PARTICLE BEAMS

PROTON BOMBARDMENT

BT PARTICLE ACCELERATOR TECHNIQUES

PROTON CAPTURE

BT PROTON REACTIONS

PROTON COUNTERS

BT COUNTERS
RADIATION MEASURING INSTRUMENTS

PROTON CROSS SECTIONS

BT NUCLEAR CROSS SECTIONS

PROTON REACTIONS

BT NUCLEAR REACTIONS
NT PROTON CAPTURE
PROTON SCATTERING

PROTON SCATTERING

BT NUCLEAR SCATTERING
PROTON REACTIONS

PROTONS

BT IONS
NUCLEONS

PROTOPLASM

BT CELLS (BIOLOGY)

PROTOTYPE FOULING CONTROL SYSTEMS

USE ANTIFOULING COATINGS
AND PROTOTYPES

PROTOTYPE MODELS

USE MODELS
AND PROTOTYPES

PROTOTYPES

SN COMBINE WITH A SPECIFIC SYSTEM OR
EQUIPMENT NAME, I.E. FOR PROTOTYPE FUEL
SYSTEMS, USE FUEL SYSTEMS AND
PROTOTYPES.
RT PATTERNS

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PROTOZOA

BT INVERTEBRATES
MICROORGANISMS
NT* ACTINOPODA
* CILIATA
* DINOFLAGELLATA
MASTIGOPHORA
* RHIZOPODA
* SPOROZOA

PROTUBERANCES

PROUSTITE
BT ORES(METAL SOURCES)

PROVISION STORE SHIPS
USE STORE SHIPS

PROVISIONING MODELS
BT LOGISTICS PLANNING

PROVISIONING POLICIES
BT LOGISTICS MANAGEMENT

PROXIMITY DEVICES

PROXIMITY FUZE COUNTERMEASURE PROTECTION
USE COUNTERMEASURES
AND PROTECTION
AND PROXIMITY FUZES

PROXIMITY FUZES
BT FUZES(ORDNANCE)
NT ELECTROSTATIC FUZES
HYDROSTATIC FUZES
MAGNETIC FUZES
RADIO PROXIMITY FUZES

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PSEUDO RANDOM SEQUENCES

PSEUDO RANDOM SYSTEMS
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REFLECTIVE PAINT
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REFRACTORY METALS
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GENERAL, USE RELIABILITY. FOR SPECIFIC
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MIDI REMOTELY PILOTED VEHICLES
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RPV
TACTICAL RPVS
UNMANNED AIRCRAFT
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RENDEZVOUS SPACECRAFT
BT SPACECRAFT

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BT TRAJECTORIES

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UF BATTLE DAMAGE REPAIR SHIPS
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REPLENISHMENT AT SEA
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REPLENISHMENT OILERS
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REPRESSURIZATION
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REPRODUCTION(COPYING)
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REPRODUCTION(PHYSIOLOGY)
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* SEX GLANDS
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REPROGRAPHY

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NT* SNAKES
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UF PRIME REQUIREMENT
REQUIREMENTS MATRIX
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REQUIREMENTS DETERMINATION
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REQUIREMENTS DOCUMENTATION
USE DOCUMENTS
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RESEARCH CENTERS
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RESEARCH ENGINE
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UF FOLLOW ON RESEARCH
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RESEARCH PLANES
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RESEARCH PLANNING
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GUIDED MISSILE SHIP(AVM 1)NORTON SOUND
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SONAR TEST SHIPS
TEST VESSELS
SN SHIPS USED FOR EQUIPMENT, SYSTEMS,
TESTING, ETC. NOT SHIPS OF NEW DESIGN.
BT AUXILIARY SHIPS
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USE SCIENTIFIC RESEARCH

RESEARCH VEHICLES
USE VEHICLES

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SHAFT HORSEPOWER
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* DRIVE SHAFTS
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BT FOSSIL FUELS
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SHALLOW DEPTH
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NT SHALLOW WATER

SHALLOW DRAFT BOATS
USE BOATS
AND SHALLOW WATER

SHALLOW SATURATION DIVING
USE SATURATION DIVING
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SHALLOW SHELLS
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SHALLOW WATER
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SHALLOW WATER WAVES
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AND SHAPE

SHAPED BODIES
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SHAPED BOMB
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SHAPED CHARGE JETS
UF JET CHARGES
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SHARP EDGES
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SHARPENERS

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SHEAR FAILURE
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SHEAR LAYER
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AND SHEAR PROPERTIES

SHEAR PROPERTIES
BT MECHANICAL PROPERTIES
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SHEAR STRENGTH

SHEAR STRENGTH
BT SHEAR PROPERTIES
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SHEET ALLOYS
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SHEET CAVITATION
UF LAMINAR CAVITATION
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SHEET EXPLOSIVES
BT EXPLOSIVES

SHEET METAL
USE METALS
AND SHEETS

SHEETS
BT STRUCTURAL MEMBERS

SHELF LIFE
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SHELL PLATE THICKNESS
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AND SHELLS(STRUCTURAL FORMS)
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RT ORTHOTROPIC SHELLS

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BT AQUATIC ANIMALS
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NT* CRUSTACEA
* PELECYPODA

SHELLS OF REVOLUTION

UF AXISYMMETRIC SHELLS
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BT SHELLS(STRUCTURAL FORMS)
NT CONICAL SHELLS
* CYLINDRICAL SHELLS
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* SPHERICAL SHELLS
TOROIDAL SHELLS

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UF SHELL STRUCTURES
STRUCTURAL SHELLS
BT STRUCTURAL MEMBERS
NT CORRUGATED SHELLS
* DCMES(STRUCTURAL FORMS)
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* NONAXISYMMETRIC SHELLS
ORTHOTROPIC SHELLS
REINFORCED SHELLS
* SHELLS OF REVOLUTION
* STIFFENED SHELLS
THICK SHELLS
THIN SHELLS
RT HULLS(STRUCTURES)
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BT RATIONS

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NT FALLOUT SHELTERS
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SHF ANTENNA

USE MICROWAVE ANTENNAS
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SHF PROPAGATION

USE ELECTROMAGNETIC WAVE PROPAGATION
AND SUPERHIGH FREQUENCY

SHIELD WATER

USE SHIELDING
AND WATER

SHIELDED ARC WELDING

BT ARC WELDING

SHIELDING

NT ELECTROMAGNETIC SHIELDING
HEAT SHIELDS
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SHIFT REGISTERS

BT MEMORY DEVICES
REGISTERS(CIRCUITS)
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BT MOTION

SHIFTING EQUILIBRIUM FLOW

USE EQUILIBRIUM FLOW

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NT SHIGELLA BOYDII
SHIGELLA DYSENTERIAE
SHIGELLA FLEXNERI
SHIGELLA PARADYSENTERIAE
SHIGELLA SONNEI

SHIGELLA BOYDII

BT SHIGELLA

SHIGELLA DYSENTERIAE

BT SHIGELLA

SHIGELLA FLEXNERI

BT SHIGELLA

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BT SHIGELLA

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BT DYSENTERY

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SHIP ACOUSTIC SIGNATURE
USE ACOUSTIC SIGNATURES
AND SHIP SIGNATURES

SHIP ACOUSTICAL PROPERTIES
USE ACOUSTIC PROPERTIES
AND SHIPS

SHIP ACQUISITION PROGRAM MANAGERS
USE ACQUISITION
AND SHIPS

SHIP ACTUATION DATA
USE ACTUATION
AND SHIPS

SHIP ANTENNAS
UF SHIPBOARD ANTENNAS
BT ANTENNAS
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SHIP ANTIROLL TANK SYSTEMS
USE ROLL
AND SHIPS
AND TANKS(CONTAINERS)

SHIP ARMAMENT MANAGEMENT
USE MANAGEMENT
AND SHIPS
AND WEAPONS

SHIP ASW PERFORMANCE
USE ANTI-SUBMARINE WARFARE
AND PERFORMANCE(ENGINEERING)
AND SHIPS

SHIP AUXILIARIES
SN DO NOT USE. THE NAVY USES THE TERM
AUXILIARY IN THREE BROAD CONTEXTS:
1)PROPULSION AUXILIARIES(MARINE)
2)SHIP AUXILIARY SYSTEMS
3)SHIP AUXILIARY EQUIPMENT
PROPULSION AUXILIARIES(MARINE) ARE
PROPULSION SUPPORT SYSTEMS DIRECTLY
RELATED WITH THE MAIN PROPULSION PLANT.
FOR LIST OF THESE SYSTEMS,CONSULT THE
HIERARCHY. SHIP AUXILIARY SYSTEMS ARE

(CONTD)

COMPLETE AUXILIARY PLANTS THAT PERFORM
FUNCTIONS OTHER THAN PROPULSION
SHIP AUXILIARY EQUIPMENT ARE CONNECTED
NEITHER WITH THE PROPULSION PLANT NOR
THE INDEPENDENT AUXILIARY PLANTS.

RT SHIP AUXILIARY SYSTEMS
SHIP AUXILIARY EQUIPMENT

SN SEE NOTE UNDER SHIP
AUXILIARIES. INCLUDE HERE THOSE
AUXILIARIES NOT DIRECTLY ASSOCIATED
WITH ANY OF THE SYSTEMS LISTED UNDER
PROPULSION AUXILIARIES(MARINE) OR THAT
ARE INDEPENDENT PLANTS AS IN SHIP
IARY SYSTEMS. FOR INDIVIDUAL AUXILIARY
EQUIPMENT, USE THE NAME OF THE EQUIPMENT
WITH SHIP AUXILIARY EQUIPMENT. FOR
EXAMPLE-CONDENSERS AND SHIP AUXILIARY
EQUIPMENT. THE EXCEPTION WOULD BE FOR
SPECIFIC AUXIL. EQUIPMENT LISTED AS
SUCH IN THE THESAURUS, SUCH AS

NT* DECK SAFETY EQUIPMENT
DRAFT INDICATORS(NAUTICAL)
LIFEBOATS
LIFE RAFTS
DARS

RT SHIP TELEPHONE SYSTEMS
EQUIPMENT
PROPULSION AUXILIARIES(MARINE)
SHIP AUXILIARY SYSTEMS

SHIP AUXILIARY SYSTEMS

UF AUXILIARY SYSTEMS(MARINE)
SHIPS SYSTEMS

SN SEE NOTE UNDER SHIP AUXILIARIES. THERE
IS NO HIERARCHY OF SHIP AUXILIARY
SYSTEMS LIKE THERE IS FOR THE MARINE
PROPULSION PLANT. THE FOLLOWING IS A
PARTIAL LIST OF SHIP AUXILIARY
SYSTEMS SHIP ELECTRIC PLANT, SHIP
SYSTEMS, SHIPBOARD COOLING
SYSTEMS, SHIPBOARD DRY AIR
SYSTEMS, SHIPBOARD ELECTRONIC SYSTEMS,
INTERIOR COMMUNICATIONS, REFRIGERATION
PLANT, DISTILLING PLANT, LUBRICATING OIL
SYSTEM, NAVIGATION SYSTEM, ETC.

RT BILGE AND BALLAST SYSTEMS
PROPULSION AUXILIARIES(MARINE)
SHIPBOARD PIPING SYSTEMS
SHIP AUXILIARIES
SHIP AUXILIARY EQUIPMENT

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SHIP BENDING MOMENT CURVES
USE BENDING MOMENTS
AND GRAPHS
AND SHIPS

SHIP BOILERS
USE MARINE BOILERS

SHIP BOTTOM SEARCH
USE BOTTOM
AND SEARCHING
AND SHIPS

SHIP BOTTOMS
USE BOTTOM
AND SHIP HULLS

SHIP BOWS
UF BULBOUS BOW
BT SHIP HULLS

SHIP BRIDGE CONTROL CENTERS
UF BRIDGE CONTROL
SN USE FOR LAYOUT, DESIGN, AND
ERGONOMICS. FOR PARTICULAR SYSTEMS
DESIGN, USE SHIPBOARD CONTROL SYSTEMS.
BT CONTROL CENTERS
RT SHIPBOARD CONTROL SYSTEMS
SHIP CONTROL

SHIP BRIDGE CONTROL CONSOLES
USE CONTROL PANELS
AND SHIP BRIDGE CONTROL CENTERS

SHIP BRIDGES
BT SHIP STRUCTURAL COMPONENTS
RT BRIDGES

SHIP CASUALTIES
USE CASUALTIES
AND SHIPS

SHIP CLASS
USE SHIPS

SHIP CLASSIFICATION
USE CLASSIFICATION
AND SHIPS

SHIP COATINGS
USE MARINE COATINGS

SHIP COMBAT
USE NAVAL VESSELS
AND WARFARE

SHIP COMPATIBILITY
USE COMPATIBILITY
AND SHIPS

SHIP CONDITIONS
USE SHIPBOARD

SHIP CONSTRUCTION
USE SHIPBUILDING

SHIP CONTROL
BT CONTROL
RT SHIPBOARD CONTROL SYSTEMS
SHIP BRIDGE CONTROL CENTERS

SHIP CONVERSION
SN DO NOT USE. USE EITHER SHIPS AND
CONVERSION OR SHIPS AND RETROFITTING.

SHIP CONVOYS
NT NAVAL CONVOYS
RT FLEETS(SHIPS)

SHIP DAMAGE
USE DAMAGE
AND SHIPS

SHIP DECKS
UF DECKS
WEATHER DECKS
BT FLOORS
SHIP STRUCTURAL COMPONENTS
NT FLIGHT DECKS
HANGAR DECKS

SHIP DECOY
USE DECOYS
AND SHIPS

SHIP DEFENSE SYSTEMS
BT DEFENSE SYSTEMS

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SHIP DESCRIPTIONS
USE SHIPS

SHIP DESIGN
NT COMPUTER AIDED SHIP DESIGN
HULL DESIGN
SUBMARINE DESIGN
RT DESIGN
NAVAL ARCHITECTURE

SHIP DETECTION
USE DETECTION
AND SHIPS

SHIP DISPLACEMENT
USE DISPLACEMENT
AND SHIPS

SHIP DISPLAYS
USE DISPLAY SYSTEMS
AND SHIPS

SHIP DISTILLING PLANTS
USE DISTILLING PLANTS
AND SHIPBOARD

SHIP DRAG
USE SHIP RESISTANCE

SHIP DRY AIR SYSTEMS
USE DRY AIR SYSTEMS
AND SHIPS

SHIP DYNAMICS
USE DYNAMICS
AND SHIPS

SHIP ELECTRIC POWER GENERATION
BT SHIP ELECTRIC POWER PLANTS
NT POWER CONVERSION SYSTEMS(SHIPS)
* SHIPBOARD BATTERY SYSTEMS
* SHIP SERVICE GENERATORS
SHIP STANDBY GENERATORS
RT POWER DISTRIBUTION SYSTEMS(SHIPS)
SHIP LIGHTING SYSTEMS

SHIP ELECTRIC POWER PLANTS
UF POWER PLANTS
SHIPBOARD ELECTRICAL EQUIPMENT
SHIPBOARD ELECTRICAL SYSTEMS
SHIPS ELECTRIC POWER SYSTEMS
SHIPS SYSTEMS
SHIP ELECTRICAL SYSTEMS
BT ELECTRIC POWER PLANTS

(CONTO)

NT POWER DISTRIBUTION SYSTEMS(SHIPS)
* SHIP ELECTRIC POWER GENERATION
SHIP LIGHTING SYSTEMS
SHIP SERVICE TURBOGENERATOR
LUBRICATING OIL SYSTEMS
RT MARINE PROPULSION PLANTS
SHIP ELECTRICAL SYSTEMS
USE SHIP ELECTRIC POWER PLANTS

SHIP ELECTROMAGNETIC ENVIRONMENT
USE ELECTROMAGNETIC ENVIRONMENTS
AND SHIPS

SHIP ENGINEERING
USE MARINE ENGINEERING
AND SHIPS

SHIP ENVIRONMENTAL CONTROL
USE ENVIRONMENTAL CONTROL
AND SHIPS

SHIP FIRES
BT FIRES

SHIP FLEXURE
USE FLEXING
AND SHIPS

SHIP FOULING
USE FOULING
AND SHIPS

SHIP FUEL
SN DO NOT USE THIS TERM. USE EITHER SHIPS
AND FUELS AND/OR SELECT A SPECIFIC
FUEL FROM THE FUELS HIER. FOR
EXAMPLE, DIESEL FUEL MARINE OR NAVY
ILLATES.

SHIP GENERATORS
USE SHIP SERVICE GENERATORS

SHIP GUNS
USE GUNS
AND SHIPS

SHIP HARDENING
USE HARDENING
AND SHIPS

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SHIP HEADINGS
USE NAVIGATION
AND SHIPS

SHIP HEAVING
BT SHIP MOTION

SHIP HULL MATERIAL
USE MATERIALS
AND SHIP HULLS

SHIP HULL VIBRATION
USE HULL VIBRATION

SHIP HULLS
UF NAVAL HULLS
BT HULLS(MARINE)
SHIP STRUCTURAL COMPONENTS
NT BILGES
SHIP BOWS
SHIP STERNS

SHIP HYDRODYNAMICS
USE HYDRODYNAMICS
AND SHIPS

SHIP HYDROMECHANICS
USE HYDROMECHANICS
AND SHIPS

SHIP INTEGRATED BRIDGE CONTROL
USE INTEGRATED SYSTEMS
AND SHIP BRIDGE CONTROL CENTERS

SHIP INTEGRATED SYSTEM
USE INTEGRATED SYSTEMS
AND SHIPS

SHIP ISOLATION DEVICES
USE ISOLATION
AND SHIPS

SHIP KEELS
BT SHIP STRUCTURAL COMPONENTS
NT BILGE KEELS

SHIP LAUNCHED
BT LAUNCHING
NT SUBMARINE LAUNCHED

SHIP LAUNCHED MISSILE SYSTEMS
USE GUIDED MISSILES
AND SHIP LAUNCHED

SHIP LAUNCHED WEAPONS
USE SHIP LAUNCHED
AND WEAPONS

SHIP LENGTH
USE LENGTH
AND SHIPS

SHIP LIGHTING SYSTEMS
UF LIGHTING FIXTURES(SHIPS)
LIGHTING SYSTEMS(SHIPS)
SHIPEGARD LIGHTING
BT SHIP ELECTRIC POWER PLANTS
RT SHIP ELECTRIC POWER GENERATION

SHIP LOADING
USE LOADING(HANDLING)
AND SHIPS

SHIP LOADS
USE LOADS(FORCES)
AND SHIPS

SHIP MACHINERY
SN SEE THE MARINE PROPULSION PLANTS
HIERARCHY AND ITS RELATED TERMS.

SHIP MAINTENANCE
BT MAINTENANCE

SHIP MANEUVERABILITY
BT MANEUVERABILITY

SHIP MASTS
BT SHIP STRUCTURAL COMPONENTS

SHIP MISSIONS
USE MISSIONS
AND SHIPS

SHIP MODELS
BT MODELS
RT MODEL MAKING

SHIP MOTION
UF SHIP SURGING
SHIP SWAYING
BT MOTION
NT PORPOISING
SHIP HEAVING

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(CONTD)

RT PITCH(MOTION)
ROLL
YAW
SHIP MOTION MODEL
USE MODELS
AND SHIP MOTION
SHIP MOTION PREDICTION
USE PREDICTIONS
AND SHIP MOTION
SHIP MOTION RESPONSES
USE RESPONSE
AND SHIP MOTION
SHIP NAVIGATION
USE SHIPS
AND SURFACE NAVIGATION
SHIP NOISE
BT NOISE(SOUND)
NT PROPELLER NOISE
SHIP OPERATIONS
USE OPERATION
AND SHIPS
SHIP PERFORMANCE
RT HULL EFFICIENCY
PROPULSIVE EFFICIENCY
SHIP PERSONNEL
UF SHIPS CREW
BT PERSONNEL
NT SUBMARINE PERSONNEL
RT CREWS
SHIP PIPING SYSTEMS
USE SHIPBOARD PIPING SYSTEMS
SHIP PLATES
UF HULL PLATING
BT METAL PLATES
SHIP STRUCTURAL COMPONENTS
RT PLATES
STIFFENED PLATES

SHIP POUNDING
USE SLAMMING
SHIP PROPELLERS
USE PROPELLERS(MARINE)
SHIP PROPULSION
SN FOR GENERAL DISCUSSIONS OF SHIP
PROPULSION. USE MARINE PROPULSION.
FOR SPECIFIC TREATMENT,SEE THE MARINE
PROPULSION PLANTS HIERARCHY.
SHIP PROPULSION AUXILIARIES
USE PROPULSION AUXILIARIES(MARINE)
SHIP PROPULSION MACHINERY
USE MARINE PROPULSION PLANTS
SHIP PROTECTION
USE PROTECTION
AND SHIPS
SHIP RECOGNITION
USE RECOGNITION
AND SHIPS
SHIP REFRIGERATION SYSTEMS
USE REFRIGERATION SYSTEMS
AND SHIPS
SHIP RELIABILITY DATA
USE RELIABILITY
AND SHIPS
SHIP REPAIR
BT REPAIR
SHIP REPAIR FACILITIES
BT FACILITIES
NAVAL SHORE FACILITIES
SHIP RESISTANCE
UF SHIP DRAG
BT RESISTANCE
NT FRICTIONAL RESISTANCE
WAVE RESISTANCE
RT DRAG
EFFECTIVE HORSEPOWER

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SHIP SAFETY
USE SAFETY
AND SHIPS

SHIP SALVAGE
USE MARINE SALVAGE

SHIP SENSORS
USE DETECTORS
AND SHIPS

SHIP SERVICE GENERATORS
UF MARINE GENERATORS
SHIP GENERATORS
SN ALL POWER GENERATION SYSTEMS
DESIGNATED AS PRIMARY SOURCES OF
POWER. WHEN SHIP SERVICE GENERATORS ARE
DESIGNATED AS STANDBY(EMERGENCY)
GENERATORS, THEY SHALL ALSO BE INDEXED
HERE.
RT GENERATORS
SHIP ELECTRIC POWER GENERATION
NT DIESEL GENERATOR SETS
GAS TURBINE GENERATOR SETS
MARINE DIESEL GENERATOR SETS
MARINE GAS TURBINE GENERATOR SETS
SHIP SERVICE TURBOGENERATORS
RT COMBINED CYCLE POWER PLANTS
SHIP STANDBY GENERATORS

SHIP SERVICE POWER DISTRIBUTION
SN THE SHIP MAIN POWER SYSTEM AND THE
NORMAL SOURCE OF POWER TO ALL
ELECTRICAL FUNCTIONS. FOR CABLES, USE
ELECTRIC CABLES AND SHIPBOARD. THE SHIP
MAIN POWER SYSTEM AND THE NORMAL
POWER TO ALL ELECTRICAL FUNCTIONS. FOR
CABLES, USE ELECTRIC CABLES AND
SHIPBOARD.
BT POWER DISTRIBUTION SYSTEMS(SHIPS)
RT CASUALTY POWER SYSTEMS(SHIPS)
EMERGENCY POWER DISTRIBUTION(SHIPS)

SHIP SERVICE TURBOGENERATOR LUBRICATING OIL
SYSTEMS
BT LUBRICATING OIL SYSTEMS(MARINE)
SHIP ELECTRIC POWER PLANTS
RT* PROPULSION LUBRICATING OIL
SYSTEMS(MARINE)

SHIP SERVICE TURBOGENERATORS
ABB SSTG
BT AUXILIARY STEAM TURBINES(MARINE)
SHIP SERVICE GENERATORS
TURBOGENERATORS

SHIP SHORE COMMUNICATIONS
USE COMMUNICATION AND RADIO SYSTEMS
AND SHIP TO SHORE

SHIP SIGNATURES
BT SIGNATURES

SHIP SLAMMING
USE SLAMMING

SHIP SLOPPING
USE SLAMMING

SHIP SPECIFICATIONS
BT SPECIFICATIONS

SHIP SPEED
USE SHIPS
AND VELOCITY

SHIP SPRINGING
USE HULL VIBRATION

SHIP STABILITY
USE SHIPS
AND STABILITY

SHIP STANDBY GENERATORS
SN ALL POWER GENERATION SYSTEMS DESIGNED
SOLELY AS EMERGENCY SYSTEMS.
COMBINATION SHIP SERVICE, EMERGENCY
GENERATORS GO WITH SHIP SERVICE
BT SHIP ELECTRIC POWER GENERATION
STANDBY GENERATORS
RT SHIP SERVICE GENERATORS

SHIP STERNS
UF STERN CONFIGURATION
BT SHIP HULLS
RT BOATTAILS

SHIP STRUCTURAL COMPONENTS
UF SHIPBOARD STRUCTURES
SHIP STRUCTURES
BT STRUCTURAL MEMBERS

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NT HATCHES
MARINE RUDDERS
SHIP BRIDGES
* SHIP DECKS
* SHIP HULLS
* SHIP KEELS
SHIP MASTS
SHIP PLATES
STERN TUBES(PROPULSION)
SHIP STRUCTURES
USE SHIP STRUCTURAL COMPONENTS

SHIP SURFACES
USE SHIPS
AND SURFACES

SHIP SURGING
USE SHIP MOTION

SHIP SURVIVABILITY
BT SURVIVABILITY

SHIP SWAYING
USE SHIP MOTION

SHIP SWITCHBOARDS
BT SWITCHBOARDS

SHIP TANK DYNAMICS
USE DYNAMICS
AND SHIPS
AND TANKS(CONTAINERS)

SHIP TANK PERFORMANCE
USE PERFORMANCE(ENGINEERING)
AND SHIPS
AND TANKS(CONTAINERS)

SHIP TARGETS
USE SHIPS
AND TARGETS

SHIP TELEPHONE SYSTEMS
BT SHIP AUXILIARY EQUIPMENT
TELEPHONE SYSTEMS

SHIP TO AIR

SHIP TO SHIP

SHIP TO SHORE

SHIP TO SHORE CABLE
USE CABLES
AND SHIP TO SHORE

SHIP TO SHORE COMMUNICATIONS
USE COMMUNICATION AND RADIO SYSTEMS
AND SHIP TO SHORE

SHIP TO SHORE FUEL TRANSFER
USE FUEL TRANSFER
AND SHIP TO SHORE

SHIP TOWED ARRAY APPLICATIONS
USE ARRAYS
AND TOWED BODIES

SHIP TOWED SYSTEM COMPONENTS
USE SHIPS
AND TOWED BODIES

SHIP TRACKING
USE SHIPS
AND TRACKING

SHIP TRIALS
RT ACOUSTIC TRIALS
MANEUVERING TRIALS

SHIP TURBINES
USE * MARINE GAS TURBINES
* MARINE STEAM TURBINES

SHIP VIBRATION STUDIES
USE SHIPS
AND VIBRATION

SHIP VULNERABILITY
BT VULNERABILITY

SHIP WAKE
BT WAKE

SHIP WAKE PROPELLER RUDDER INTERACTION
NT PROPELLER RACE

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SHIP WAVE
USE SHIPS
AND WATER WAVES

SHIP WAVE RESISTANCE
USE DRAG
AND SHIPS
AND WATER WAVES

SHIP WEAPON SYSTEM
USE NAVAL VESSELS
AND WEAPON SYSTEMS

SHIP WHIPPING
USE HULL VIBRATION

SHIPBOARD
UF SHIPBORNE
SHIP CONDITIONS
SN PERTAINS TO SYSTEMS OR EVENTS ON OR IN
A SHIP. FOR SYSTEMS PERTAINING TO THE
EXTERNAL SHIP, COMBINE TERM WITH SHIPS.
BT ONBOARD

SHIPBOARD ACCIDENTS
USE ACCIDENTS
AND SHIPBOARD

SHIPBOARD ACOUSTIC TECHNIQUES
USE ACOUSTICS
AND SHIPBOARD

SHIPBOARD ANTENNAS
USE SHIP ANTENNAS

SHIPBOARD AUTOMATION
SN USE FOR GENERAL DISCUSSIONS ONLY.
BT AUTOMATION

SHIPBOARD BATTERY SYSTEMS
BT ELECTRIC BATTERIES
SHIP ELECTRIC POWER GENERATION
NT SHIPBOARD PROPULSION BATTERIES
SHIPBOARD STORAGE BATTERIES

SHIPBOARD COMMUNICATIONS
USE COMMUNICATION AND RADIO SYSTEMS
AND SHIPBOARD

SHIPBOARD COMMUNICATIONS ANTENNAS
USE COMMUNICATION EQUIPMENT
AND SHIP ANTENNAS

SHIPBOARD COMPUTER SYSTEMS
SN DO NOT USE. INSTEAD USE SHIPS OR NAVAL
VESSELS COMBINED WITH A COMPUTER OR
DATA PROCESSING TERM.

SHIPBOARD CONTROL SYSTEMS
SN FOR LAYOUT OF THE CONTROL CENTER, USE
SHIP BRIDGE CONTROL CENTERS.
BT CONTROL SYSTEMS
PROPULSION AUXILIARIES(MARINE)
NT AUXILIARY CONTROL(MARINE)
DAMAGE CONTROL(MARINE)
ELECTRICAL CONTROL(MARINE)
PROPULSION CONTROL(MARINE)
RT SHIP BRIDGE CONTROL CENTERS
SHIP CONTROL

SHIPBOARD COOLING SYSTEMS
USE SEA WATER COOLING SYSTEMS(MARINE)

SHIPBOARD COUNTERMEASURES
USE COUNTERMEASURES
AND SHIPBOARD

SHIPBOARD DAMAGE CONTROL
USE DAMAGE CONTROL(MARINE)

SHIPBOARD DEGAUSSING SYSTEMS
USE DEGAUSSING
AND SHIPBOARD

SHIPBOARD DESALINATION SYSTEMS
USE DESALINATION
AND SHIPBOARD

SHIPBOARD ELECTRIC CABLE
USE ELECTRIC CABLES
AND SHIPBOARD

SHIPBOARD ELECTRIC POWER DISTRIBUTION
USE POWER DISTRIBUTION SYSTEMS(SHIPS)

SHIPBOARD ELECTRICAL EQUIPMENT
USE SHIP ELECTRIC POWER PLANTS

SHIPBOARD ELECTRICAL INSULATION
USE ELECTRICAL INSULATION
AND SHIPBOARD

SHIPBOARD ELECTRICAL SYSTEMS
USE SHIP ELECTRIC POWER PLANTS

SHIPBOARD ELECTROMAGNETIC COMPATIBILITY
USE ELECTROMAGNETIC COMPATIBILITY
AND SHIPBOARD

SHIPBOARD ELECTRONIC EQUIPMENT
USE ELECTRONIC EQUIPMENT
AND SHIPBOARD

SHIPBOARD ELECTRONIC WARFARE APPLICATIONS
USE ELECTRONIC WARFARE
AND SHIPBOARD

SHIPBOARD EMERGENCY POWER DISTRIBUTION
USE EMERGENCY POWER DISTRIBUTION(SHIPS)

SHIPBOARD ENERGY UTILIZATION
SN SELECT APPROPRIATE ENERGY TERM AND
SHIPS

SHIPBOARD ENVIRONMENTAL CONTROL
USE ENVIRONMENTAL CONTROL
AND SHIPS

SHIPBOARD FIRE FIGHTING EQUIPMENT
USE FIRE FIGHTING
AND SHIPBOARD

SHIPBOARD FIRE HAZARDS
USE FIRE HAZARDS
AND SHIPBOARD

SHIPBOARD FIRE PREVENTION
USE FIRE PREVENTION
AND SHIPBOARD

SHIPBOARD FIRE PROTECTION
USE FIRE PROTECTION
AND SHIPBOARD

SHIPBOARD GUN SYSTEM
USE GUNS
AND SHIPBOARD

SHIPBOARD HABITABILITY
USE HABITABILITY
AND SHIPBOARD

SHIPBOARD HF ANTENNAS
USE HIGH FREQUENCY
AND SHIP ANTENNAS

SHIPBOARD HYDRAULIC SYSTEMS
USE HYDRAULIC EQUIPMENT
AND SHIPBOARD

SHIPBOARD INCINERATORS
BT INCINERATORS
SHIPBOARD SEWAGE TREATMENT SYSTEMS

SHIPBOARD INFORMATION SYSTEM
USE INFORMATION SYSTEMS
AND SHIPBOARD

SHIPBOARD INFRARED IMAGING SYSTEMS
USE INFRARED IMAGES
AND SHIPBOARD

SHIPBOARD LAUNCHERS
USE LAUNCHERS
AND SHIPBOARD

SHIPBOARD LIGHTING
USE SHIP LIGHTING SYSTEMS

SHIPBOARD MACHINERY
SN SEE MARINE PROPULSION PLANTS HIERARCHY.

SHIPBOARD MATERIALS
USE MATERIALS
AND SHIPBOARD

SHIPBOARD OILY WASTES
USE OILY WASTES
AND SHIPS

SHIPBOARD ORDNANCE
USE ORDNANCE
AND SHIPBOARD

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SHIPBOARD PANELS(ELECTRICITY)
USE PANELS(ELECTRICITY)
AND SHIPS

SHIPBOARD PIPING SYSTEMS
UF SHIPS SYSTEMS
SHIP PIPING SYSTEMS
BT PIPING SYSTEMS

NT BILGE AND BALLAST SYSTEMS
COMBUSTION AIR SYSTEMS(MARINE)
COMBUSTION AIR SYSTEM(MARINE)
FEED WATER AND CONDENSATE
SYSTEM(MARINE)
FUEL OIL SERVICE SYSTEM(MARINE)
LUBRICATING OIL SYSTEMS(MARINE)
MAIN STEAM SYSTEM(MARINE)
PROPULSION LUBRICATING OIL
SYSTEMS(MARINE)

* SEA WATER PIPING SYSTEMS
SHIPBOARD REFRIGERATION SYSTEMS
RT MARINE PROPULSION PLANTS
PROPULSION AUXILIARIES(MARINE)
SHIP AUXILIARY SYSTEMS

SHIPBOARD POLLUTION ABATEMENT
USE SHIPBOARD SEWAGE TREATMENT

SHIPBOARD POWER DISTRIBUTION
USE POWER DISTRIBUTION SYSTEMS(SHIPS)

SHIPBOARD PREDICTION
USE PREDICTIONS
AND SHIPBOARD

SHIPBOARD PROPULSION AUXILIARIES
USE* PROPULSION AUXILIARIES(MARINE)

SHIPBOARD PROPULSION BATTERIES
UF PROPULSION BATTERIES(MARINE)
BT SHIPBOARD BATTERY SYSTEMS

SHIPBOARD PROPULSION SYSTEMS
SN FOR GENERAL DISCUSSIONS OF SHIP
PROPULSION, USE MARINE PROPULSION. FOR
DISCUSSIONS OF SPECIFIC SYSTEMS OR
MACHINERY, SEE MARINE PROPULSION
PLANTS HIERARCHY.

SHIPBOARD REACTORS
USE MARINE REACTORS

SHIPBOARD RECONNAISSANCE
USE RECONNAISSANCE
AND SHIPBOARD

SHIPBOARD REFRIGERATION SYSTEMS
UF REFRIGERATION SYSTEMS(SHIPS)
BT REFRIGERATION SYSTEMS
SHIPBOARD PIPING SYSTEMS

SHIPBOARD SEWAGE TREATMENT
UF SHIPBOARD POLLUTION ABATEMENT
BT SEWAGE TREATMENT

SHIPBOARD SEWAGE TREATMENT SYSTEMS
UF SHIPS SYSTEMS
BT WASTE TREATMENT SYSTEMS
NT MARINE SANITATION DEVICES
SHIPBOARD INCINERATORS
RT WATER POLLUTION CONTROL EQUIPMENT

SHIPBOARD STORAGE BATTERIES
BT SHIPBOARD BATTERY SYSTEMS

SHIPBOARD STRUCTURES
USE SHIP STRUCTURAL COMPONENTS

SHIPBOARD SURVEILLANCE RADAR SYSTEM
USE SEARCH RADAR
AND SHIPBOARD

SHIPBOARD WASTES
USE SHIPBOARD
AND WASTES

SHIPBOARD WASTES DISPOSAL
USE SHIPBOARD
AND WASTE DISPOSAL

SHIPBOARD WATER
USE SHIPBOARD
AND WATER

SHIPBORNE
USE SHIPBOARD
SHIPBORNE AMBIENT
SHIPBORNE PYROTECHNICS
USE PYROTECHNICS
AND SHIPBOARD

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SHIPBORNE RADAR
USE RADAR
AND SHIPBOARD

SHIPBUILDING
UF SHIP CONSTRUCTION

SHIPBUILDING INDUSTRY
BT INDUSTRIES

SHIPBUILDING SCHEDULE
USE SCHEDULING
AND SHIPBUILDING

SHIPPING
BT TRANSPORTATION

SHIPPING CONTAINERS
BT CONTAINERS

SHIPPING(MARINE)
USE MARINE TRANSPORTATION

SHIPS
UF LIBERTY SHIPS
MILITARY SEALIFT COMMAND SHIPS
SHIP CLASS
SHIP DESCRIPTIONS
SURFACE SHIPS
SURFACE VESSEL
VICTORY SHIPS
SN FOR SYSTEMS OR EVENTS IN OR ON A
SHIP, SEE SHIPBOARD.
NT* CARGO SHIPS
* COAST GUARD VESSELS
CONCRETE SHIPS
EXPERIMENTAL SHIPS
FERRYBOATS
FISHING VESSELS
* HIGH PERFORMANCE SHIPS
HOSPITAL SHIPS
* HYDROFOIL CRAFT
* HYDROFOIL SHIPS
ICEBREAKERS
LIGHTSHIPS
* MERCHANT VESSELS
* NAVAL VESSELS
* NUCLEAR POWERED SHIPS
OCEANOGRAPHIC SHIPS
* PATROL CRAFT
RORO SHIPS
SAILING SHIPS

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SALVAGE VESSELS
STEAMSHIPS
SUNKEN SHIPS
* TENDERS(VESSELS)
TRAINING SHIPS
TUGS
YACHTS
RT FLEETS(SHIPS)
OFFSHORE DRILLING RIGS
OFFSHORE DRILLING SHIPS
SHIPS BOATS
USE BOATS
AND SHIPBOARD
SHIPS BOILERS
USE MARINE BOILERS
SHIPS COUNTERMEASURE DECOY
USE COUNTERMEASURES
AND DECOYS
AND SHIPS
SHIPS CREW
USE SHIP PERSONNEL
SHIPS ELECTRIC POWER SYSTEMS
USE SHIP ELECTRIC POWER PLANTS
SHIPS ENTERTAINMENT COMMUNICATION SYSTEM
USE COMMUNICATION AND RADIO SYSTEMS
AND RECREATION
AND SHIPBOARD
SHIPS FLIGHT DECKS
USE FLIGHT DECKS
SHIPS INERTIAL NAVIGATION SYSTEM
USE INERTIAL NAVIGATION
AND SHIPS
SHIPS INTEGRATED ELECTRONICS SYSTEM
USE ELECTRONIC EQUIPMENT
AND INTEGRATED SYSTEMS
AND SHIPS
SHIPS INTERIOR COMMUNICATIONS SYSTEM
USE INTERCOMMUNICATION SYSTEMS
AND SHIPS

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SHIPS MAGNETIC FIELDS
USE MAGNETIC FIELDS
AND SHIPS

SHIPS POSITION
USE POSITION (LOCATION)
AND SHIPS

SHIPS SYSTEMS
USE MARINE PROPULSION PLANTS
SHIPBOARD PIPING SYSTEMS
SHIPBOARD SEWAGE TREATMENT SYSTEMS
SHIP AUXILIARY SYSTEMS
SHIP ELECTRIC POWER PLANTS

SHIPS TOTAL ENERGY SYSTEMS
USE SHIPS
AND TOTAL ENERGY SYSTEMS

SHIPWORMS
BT WORMS

SHIPYARD FABRICATION
USE FABRICATION
AND SHIPYARDS

SHIPYARDS

SHIRTS
BT CLOTHING

SHIVERING
BT PHYSIOLOGY

SHOALS
USE SHALLOW WATER
AND SHORES

SHOCK
UF SHOCK EFFECTS
NT BOW SHOCK
* SHOCK (MECHANICS)
* SHOCK (PATHOLOGY)
SHOCK RESISTANCE
SHOCK TESTS
SHOCK WAVES
THERMAL SHOCK

SHOCK ABSORBERS
UF ROTARY SHOCK ABSORBERS
SHOCK ISOLATION
SNUBBERS
BT ABSORBERS (EQUIPMENT)
RT VIBRATION ISOLATORS

SHOCK ABSORPTION
USE ABSORPTION (PHYSICAL)
AND SHOCK (MECHANICS)

SHOCK DAMPENER
USE DAMPING
AND SHOCK (MECHANICS)

SHOCK DEBRIS
USE DEBRIS
AND SHOCK SPECTRA

SHOCK EFFECTS
USE SHOCK

SHOCK ENERGY
USE ENERGY
AND SHOCK (MECHANICS)

SHOCK HARDENING
USE HARDENING
AND SHOCK (MECHANICS)

SHOCK HAZARDS
USE HAZARDS
AND SHOCK

SHOCK HYDRODYNAMIC CODE
USE CODING
AND COMPUTER PROGRAMS
AND SHOCK (MECHANICS)

SHOCK IMPEDANCE EFFECTS
USE MECHANICAL IMPEDANCE
AND SHOCK (MECHANICS)

SHOCK ISOLATION
USE SHOCK ABSORBERS

SHOCK LAYER
USE LAYERS
AND SHOCK (MECHANICS)

SHOCK LOAD
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SN FOR ANY TOWED OBJECT NOT LISTED USE
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VEILLONELLA ALKALESCENS

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WOMEN

BT HUMANS

WOOD

NT LUMBER
PLYWOOD
SAWDUST
WOOD PULP

WOOD HULLS

USE HULLS(STRUCTURES)
AND LAMINATES

WOOD PULP

BT WOOD

WOOD WASTES

BT SOLID WASTES

WOODEN DECKS

USE SHIP DECKS
AND WOOD

WOOLEN TEXTILES

BT TEXTILES

WORD ASSOCIATION

BT PSYCHOLOGICAL TESTS

WORD LISTS

WORD ORGANIZED STORAGE

BT DATA STORAGE SYSTEMS

WORD RECOGNITION

BT RECOGNITION

WORDS(LANGUAGE)

BT LANGUAGE
NI SYLLABLES

WORK

WORK ELEMENTS

WORK FUNCTIONS

BT FUNCTIONS(MATHEMATICS)

WORK MEASUREMENT

BT INDUSTRIAL EFFICIENCY

WORK(JOBS)

USE JOBS

WORKLOADS

USE JOB ANALYSIS

WORKPLACE LAYOUT

WORKSHOPS

BT MEETINGS
SYMPOSIA
NT LECTURES

WORLDWIDE NAVIGATION

USE GLOBAL
AND NAVIGATION

WORM GEARS

BT GEARS

WORMS

BT INVERTEBRATES
NT* ANNELIDA
* NEMATODA
* PLATYHELMINTHS
SHIPWORMS

WOUND BALLISTICS

BT TERMINAL BALLISTICS

WOUNDS AND INJURIES

UF INJURIES
NT AVIATION INJURIES
BITES AND STINGS
BONE FRACTURES
BRAIN DAMAGE
BULLET WOUNDS
* BURNS(INJURIES)
CHEMICAL WARFARE INJURIES
CONCUSSION
CRASH INJURIES
FROSTBITE
* RADIATION INJURIES
WHIPLASH
WHITE PHOSPHORUS INJURIES

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WRAPPING GEOMETRIES
USE GEOMETRY
AND WINDING

WRENCHES
BT SMALL TOOLS
NT IMPACT WRENCHES
PIPE WRENCHES

WRIST

WRITING
RT HANDWRITING
TECHNICAL WRITING

WROUGHT METALS
BT METALS

WUCHERERIA
BT NEMATODA

WYOMING
BT UNITED STATES

X BAND
BT FREQUENCY BANDS
SUPERHIGH FREQUENCY

X RAY ABSORPTION ANALYSIS

X RAY ABSORTION ANALYSIS
RT ANALYSIS

X RAY ANALYSIS

X RAY APPARATUS

X RAY ASTRONOMY
BT ASTRONOMY

X RAY DIAGNOSTICS

X RAY DIFFRACTION
BT DIFFRACTION
RT ANALYSIS

X RAY DIFFRACTION CAMERAS
BT CAMERAS

X RAY FILM
BT PHOTOGRAPHIC FILM

X RAY FILTERS
BT ELECTROMAGNETIC WAVE FILTERS

X RAY FLASHES
UF FLASH X RAY TECHNIQUES
BT FLASHES
X RAYS

X RAY LUMINESCENCE
BT LUMINESCENCE

X RAY PHOTOELECTRON SPECTROSCOPY

X RAY PHOTOGRAPHY

X RAY SCATTERING

X RAY SPECTRA
BT ELECTROMAGNETIC SPECTRA

X RAY SPECTROSCOPY
BT SPECTROSCOPY
RT ANALYSIS

X RAY STRESS
RT ANALYSIS

X RAY TUBES
BT ELECTRON TUBES

X RAYS
BT ELECTROMAGNETIC RADIATION
IONIZING RADIATION
NT HARD X RAYS
SOFT X RAYS
SOLAR X RAYS
TCMOGRAPHY
X RAY FLASHES

X WING AIRCRAFT
USE AIRCRAFT
AND CRUCIFORM WINGS

X WINGS
USE CRUCIFORM WINGS

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XENON
BT RARE GASES

XENON LAMPS
BT DISCHARGE LAMPS

XENON LASERS
BT GAS LASERS

XEROGRAPHY
BT REPRODUCTION(COPYING)

XI HYPERONS
BT HYPERONS

XUV FLUXES
USE ULTRAVIOLET SPECTRA

XYLENES
BT AROMATIC HYDROCARBONS

XYLOSE
BT PENTOSE

YACHTS
BT SHIPS

YAG LASERS
BT LASERS

YAGI ANTENNAS
BT DIRECTIONAL ANTENNAS

YARD CRAFT
USE SERVICE CRAFT

YARNS
BT FIBERS
NT CARBON YARN

YAW
BT ATTITUDE(INCLINATION)
RT DIRECTIONAL STABILITY
SHIP MOTION

YAWMETERS
BT ATTITUDE INDICATORS
NAVIGATIONAL AIDS

YAWSONDES
BT METEOROLOGICAL INSTRUMENTS

YEASTS
BT ASCOMYCETES

YELLOW
BT COLORS

YELLOW FEVER
BT TROPICAL DISEASES
VIRUS DISEASES

YELLOW FEVER VIRUS
BT GROUP B ARBOVIRUSES

YELLOW SEA
BT OCEANS

YEMEN
BT ARABIA

YIELD
NT YIELD(NUCLEAR EXPLOSIONS)

YIELD POINT

YIELD STRENGTH
UF MATERIAL YIELD STRENGTH
BT STRENGTH(MECHANICS)

YIELD(NUCLEAR EXPLOSIONS)
UF NUCLEAR YIELD
BT YIELD

YORK RIVER
BT RIVERS

YOUNGS MODULUS
USE MODULUS OF ELASTICITY

YOUTH
BT HUMANS
NT ADOLESCENTS
CHILDREN

YTTERBIUM
BT RARE EARTH ELEMENTS

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YTTERBIUM COMPOUNDS
BT RARE EARTH COMPOUNDS

YTTRIUM
BT TRANSITION METALS

YTTRIUM ALLOYS
BT ALLOYS

YTTRIUM ALUMINUM GARNET
BT GARNET

YTTRIUM COMPOUNDS

YTTRIUM IRON GARNET
BT GARNET

YTTRIUM OXIDES
BT OXIDES

YUGOSLAVIA
BT EASTERN EUROPE

YUKON TERRITORY
BT CANADA

ZAIRE
BT SUBSAHARAN AFRICA

ZANZIBAR
BT INDIAN OCEAN ISLANDS
TANZANIA

ZEEMAN EFFECT

ZENER DIODES
USE AVALANCHE DIODES

ZERO CAMBER AIRFOILS
USE SYMMETRICAL AIRFOILS

ZINC
BT TRANSITION METALS

ZINC AIR BATTERIES
USE AIR
AND ELECTRIC BATTERIES
AND ZINC

ZINC ALLOYS
BT ALLOYS

ZINC COATED STEEL
USE STEEL
AND ZINC COATINGS

ZINC COATINGS
BT METAL COATINGS

ZINC COMPOUNDS
NT ZINC SELENIDES
ZINC SULFIDES
ZINC TELLURIDES

ZINC OXIDES
BT OXIDES

ZINC SELENIDES
BT SELENIDES
ZINC COMPOUNDS

ZINC SILVER PILE BATTERY
USE SILVER ZINC BATTERIES

ZINC SULFIDES
BT SULFIDES
ZINC COMPOUNDS

ZINC TELLURIDES
BT TELLURIDES
ZINC COMPOUNDS

ZIONISM

ZIPPERS
BT FASTENINGS

ZIRCONATES

ZIRCONIUM
BT TRANSITION METALS

ZIRCONIUM ALLOYS
BT ALLOYS

ZIRCONIUM COMPOUNDS

ZIRCONIUM OXIDES
BT OXIDES

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ZIRCONYL RADICALS

ZODIACAL LIGHT
BT LIGHT
NT GEGENSCHN

ZONE CHARGES
BT EXPLOSIVE CHARGES

ZONE MELTING
BT PURIFICATION
SEPARATION

ZOOGEOGRAPHY
BT BIOGEOGRAPHY

ZOOLOGY
BT BIOLOGY

ZOOM LENSES
BT LENSES

ZOOMASTIGINA
NT LEISHMANIA
* TRYPANOSOMA

ZOONOSES
BT COMMUNICABLE DISEASES

ZOONOTIC DISEASES
BT DISEASES

ZOOPLANKTON
BT PLANKTON