L 32929-66   EWT(d)/EWT(1)/EWP(h)/EWP(1)   SCTB   WVH/DD

ACC NR: AP6019487   (N)   SOURCE CODE: UR/0392/66/000/003/0073/0074

AUTHOR: Abdyushev, Sh. Ya.

ORG: Department of Labor Hygiene (Kafedra gigiyeny truda);
Central Scientific Research Laboratory, Kazan Order of the Red Banner
of Labor Medical Institute im. S. V. Kurashov
(Tsentral'naya nauchno-issledovatel'skaya laboratoriya Kazanskogo ordena
Trudovogo Krasnogo Znameni meditsinskogo instituta)

TITLE: Some shifts in indices of nitrogen and chloride metabolism in persons
working under conditions of darkness

SOURCE: Kazanskiy meditsinskiy zhurnal, no. 3, 1966, 73-74

TOPIC TAGS: biologic metabolism, nitrogen, chloride, light biologic
effect, working condition

ABSTRACT: An experimental group of 19 persons working under conditions
of constant darkness and a control group of 21 persons working under
natural or artificial light conditions (21—22C   temperature and 60%—
68% relative humidity) were studied to determine nitrogen and chloride
metabolism shifts. Oxygen in the urine was measured by Kanits' method,
chlorides in the urine were determined by Mohr's method, and residual

Card 1/2   UDC: 612.015.3-613.165.9

L 32929-66

ACC NR: AP6019487

nitrogen was determined by a hypobromide titration method (S. D. Balakhovskiy, 1953). The coefficient of incomplete oxidation representing the ratio of oxygen to nitrogen was also found. Findings show that oxygen levels of the urine and the coefficient of incomplete oxidation are essentially the same for the experimental and control groups. However, the nitrogen levels show a marked difference. The chlorine level is 18.12 mg for the experimental group and 13.93 mg for the control group. The nitrogen level of urine for experimental workers is also higher: 8.33 g as opposed to 6.07 g for the control group. Comparative data on nitrogen and chloride levels of urine collected during working hours of the experimental group and then collected during nonworking hours under light conditions for the same persons show that the chloride levels become stable upon exposure to light. The nitrogen levels also become stable, but are still higher than those for the control group. The nitrogen and chloride metabolism shifts are considered to be a part of a complex adaptive reaction to conditions of darkness. [06]

SUB CODE: 05, 06/ SUBM DATE: none/ ATD PRESS: 5627

Card 2/2

SHISHAKINA, A.I.; SHVARTSMAN, Ye.M.; ABDYUSHEVA, S.Kh., red.; DAVLETOV, Kh., tekhn. red.

[Concise English-Russian dictionary for chemists] Kratkii anglo-russkii slovar' dlia khimikov. Alma-Ata, Kazakhskoe gos. uchebno-pedagog. izd-vo, 1960. 97 p. (MIRA 14:11)

    (English language—Dictionaries—Russian)
        (Chemistry—Dictionaries)

ABE, A.

"Alfalfa provides cheap fodder for swine in summer and winter."

p. 542 (Sotsialistlik Pollumajandus) Vol. 12, no. 12, Dec. 1957
Tallinn, Estonai

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

YERGALIYEV, A.Ye.; YURKOV, V.N.; ABEDIMOV, A.Zh.; ZAVARZIN, V.G.; VERSHININA,
    V.V.

    Study of the electrochemical method of fastening loams and clays.
    Trudy Alt. GMNII AN Kazakh. SSR 15:48-52 '63.   (MIRA 17:3)

COUNTRY   : Albania
CATEGORY   : Cultivated Plants - Subtropical. Tropical.

ABS. JOUR.   : RZhBiol., No.14, 1958, No.63554

AUTHOR   : Shishi, Abedin D., Prifti, Yanak
INST.   : -
TITLE   : Methods of the Propagation of Citrus Trees in Albanian
                 People's Republic.

ORIG. PUB.   : Lazahuhar. S.-Kh. An., 1957, No. 1, 3-40

ABSTRACT   : One of the old methods of the propagation of citrus trees
                 is seed sowing, which permits cultivation of citrus trees
                 in the more northern regions of Albania. The second method
                 in spring, is the dome-like shield budding with sprouting
                 buds on sour orange. Oranges and tangerines are budded
                 at the height of 40-50 cm, lemons - at 8-10 cm. The
                 high budding is done for the purpose of protecting them
                 from gummosis. In sour orange, the quality of the fruits
                 and their size decrease, and the rootstock itself is sus-
                 ceptible to dry rot. For northern regions, a resistant

Card: 1/2

123

COUNTRY   : ALBANIA
CATEGORY   : Cultivated Plants - Subtropical, Tropical.   M

AD   : Ref Hol., No.14, 1958, Nr. 63554

AUTHOR   :

INST.   :

TITLE   :

ORIG. PUB.   :

               : rootstock is trifoliate. Citrus plants are also propagated
                  with cuttings and in funnels (Margoto) which speeds up the
                  start of their fruit bearing. The method with the funnel
                  consists in that during the period of maximum sap flow,
                  in spring or in summer, a twig is selected on the southern
                  side of the tree; from the twig, a ring of bark 2-2.5 cm
                  in width is removed. A cone 25-35 cm in length, made of
                  tin, is fastened to the place where the bark had been re-
                  moved. Loose soil is poured into the cone. Watering is
                  performed every 3-5 days. After a year, the twig forms
                  roots and a sapling is obtained in this manner. — Ye. V.
                  Kolosnikov

Card: 2/2

ABEDL' GANI, A.Sh.; CHERNIKIN, V.I.

Increasing the capacity of pipelines for transporting non-Newtonian petroleums. Izv. vys. ucheb. zav.; neft' i gas 6
no.2:75-80 '63.   (MIRA 16:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
imeni akademika I.M.Gubkina.
                              (Petroleum--Pipelines)

L 35262-66   EWP(t)/ETI   IJP(c)   JD/JG

ACC NR: AP6024697   SOURCE CODE: CZ/0038/65/000/012/0447/0448

AUTHOR: Abel, Emil; Mayer, Jan--Maier, Ya.; Hluchan, Eugen--Glukhan', E.

ORG: Hygiene Research Institute, Bratislava (Vyskumny ustav hygieny)

TITLE: Cesium losses in the thermal treatment of samples

SOURCE: Jaderna energie, no. 12, 1965, 447-448

TOPIC TAGS: calcination, cesium compound, thermal effect, radioactivity measurement

ABSTRACT: The article reports on the investigation of cesium losses due to the calcining of some cesium compounds (chloride, nitrate and sulfate) at various temperatures. The results indicate the need to observe the proper conditions with respect to the calcining temperature and time in the thermal treatment of samples to determine cesium-137 as well as the need to determine total activity. This article was presented by M. Kyrs. Orig. art. has: 3 tables. [Based on authors' Eng. abst.] [JPRS: 34,666]

SUB CODE: 18, 20 / SUBM DATE: none / ORIG REF: 003 / SOV REF: 007
OTH REF: 002

Card 1/1   UDC: 546.36

FODOR, O., prof.; SURIANU, P., dr.; BARBARINO, F., dr.; PAKAU, N., dr.;
ABEL, Ch., dr.

Investigations of the immunological component of hypersplenism.
Med. intern. 14 no.10:1189-1198 O '62.

1. Lucrare efectuata in Clinica a III-a medicala I.M.F. Cluj (director:
prof. O. Fodor).
(HYPERSPLENISM)   (AUTOANTIBODIES)

ABEL', Faina Khaimovna; BRAYTSEVA, Tat'yana L'vovna; POTOLOKOV,S.I.,
spetsred.; ITSKOVICH,V.A., red.; FORMALINA,YeA., tekhn.red.

[Use of polymeric materials in the packing of fishery products]
Primenenie polimernykh materialov dlia upakovki rybnoi produktaii.
Moskva, TSentr. nauchno-issl. laboratoriia tary, 1960. 42 p.
(MIRA 14:5)

(Fishery products--Packaging)   (Plastics)

ABEL, O.

"Fifteen years later." p. 15. (MAGYAR RADIO, Vol. 9, no. 20, May 1953, Budapest.)
"We greet our Kossuth Prize winners." p. 193. "For better quality production."
p. 194. (MAGYAR TECHNIKA, Vol. 8, no. 4. Apr. 1953. Budapest.)

SO: Monthly List of East European Accessiosn, Vol. 2, #8, Library of Congress
     August., 1953, Uncl.

ABKLASHVILI, Sh. A. Cand Agr Sci -- (diss) "Effect of check-row sowing upon the yield of corn with varying fertilization background." Tbilisi, 1959. 23 pp (Min of Agr GSSR. Georgian Order of Labor Red Banner Agr Inst), 100 copies (KL, 48-59, 116)

-40-

ABEL'CHUK, N.A.; MALYSHEV, S.I.; LUKONIN, G.A.

Apparatus for the horizontal bending and tempering of windshield glass. Stek. i ker. 18 no.6:9-11 Je '61.
(MIRA 14:7)
(Glass manufacture) (Automobiles—Windows and windshields)

ABEL', V.V. (Moskva)

Torsion of a prismatic bar with an arbitrary trapezoidal cross
section. Inzh.zhur. 3 no.4:682-689 '63.   (MIRA 16:12)

ABEL', V. V.--"Investigation of the Stressed State of the Heads of Automobile
        Connecting Rods under Tension and Compression." Min Higher Ed-
        ucation USSR. Moscow Automotive Mechanics Inst. Chair of "Strength
        of Materials". Moscow, 1955. (Dissertation for the Degree of Can-
        didate in Technical Science).

SO   Knizhnnay letopis'
      No 2, 1956

ABEL', V.V.

29(5)

PHASE I BOOK EXPLOITATION   SOV/3220

Tekhnologiya mashino-instrodostroeniya (New Developments in Machine Designing)
Moscow, Mashgiz, 1959. 222 p. (Series: Its: Trudy, vyp. 1) Errata slip
inserted. 5,500 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov mer i izmeritel'nykh
priborov.

Ed.: G.B. Lur'ye, Doctor of Technical Sciences, Professor; Ed.: L.G. Prokof'yeva;
Tech. Ed.: A.F. Uvarova; Managing Ed. for Literature on Machine Building and
Instrument Construction: N.V. Pokrovskiy, Engineer.

PURPOSE: This book is intended for engineers and technicians in machine-building
plant, design and planning enterprises, and scientific research organizations
for machine-building technology. It may also be used by aspirants and students
of advanced courses in institutions of Higher Education and technical schools
for machine building.

COVERAGE: The collection contains 10 articles which describe the theoretical
and experimental work by the All-Union Scientific Research Institute for
Non-Vibration in Machine-Building (formerly TNIITMASH), carried out in
1956-1957 to investigate new equipment designs and progressive technique
for manufacturing machine parts in different branches of general machine
building: hydraulic equipment building, textile- and sewing-machine man-
ufacturing, etc. The article by N.Ye. Chernin which discusses a system of
machine fitting using "Universal fixture attachments" (copyrighted in the
Soviet Union by V.S. Kuznetsov and V.S. Ponomarev under Nr. 75777), may be
of special interest. References accompany each article.

Kuznetsov, V.S., Candidate of Technical Sciences, and I.A. Sidurov, Engineer.
    A Progressive Technological Process for Producing Half-finished
    Spinning Wheel Goods   27

Shcherbakov, B.L., Candidate of Technical Sciences. The Technology of
    Cutting the Helix on a Screw Pump   61

Panayev, P.L., Candidate of Technical Sciences. Dimensional Analysis of
    the Grooved Cylinders of Cotton-Spinning Machines   88

Chernin, N.Ye., Engineer. Experiment in the Use of "Universal Fixture
    Attachments" (UBP)   119

Lrusin, Zh.I., and V.N. Lopatry, Engineers. Control-Operational Automatic
    Machines for Needle Production   143

Petrova, S.P., Candidate of Technical Sciences. Treatment of the Wear-
    Resistant Materials of Sand and Gravel Pumps   177

Abel', V.V., Candidate of Technical Sciences, and A.V. Voronin, Engineer.
    A Problem of Deformation in Wheels of Large Curvature   197

Card 1/4

1

AUTHOR: Abel', V., Candidate of Technical Sciences   SOV/84-59-10-45/53

TITLE: Scratches on the Fuselage Cover

PERIODICAL: Grazhdanskaya aviatsiya, 1959, Nr 10, p 31 (USSR)

ABSTRACT: The author explains the importance of having the
                Tu-104 fuselage cover free of scratches and other
                external damage, because of the arising of stress
                concentration at damaged places, caused at higher
                altitudes by pressure from within the hermetic com-
                partments, and aggravated by repeated pressure
                changes. In order to work out the optimum admis-
                sible tolerances of such external damage to fuselage
                covers of the Tu-104 and An-10, GosNII GVF, together
                with design offices, conducted a special investiga-
                tion. Typical flat samples of rivetted butts and
                large portions of smooth fuselage cover were invest-
                igated. The depth of scratches inflected by cutters
                was gauged by an indicator and with a microscope.
Card 1/2   It was found, that scratches and abrasions on the

Scratches on the Fuselage Cover   SOV/84-59-10-45/53

fuselage cover to 0.1 mm in depth do not call for
reinforcement, yet they injure the plating layer and
lower the cover's corrosion resistance.

Card 2/2

ABEL', V.V. (Moskva)

Integrating harmonic and biharmonic equations in curvilinear coordinates. Inzh. zhur. 3 no.1:169-173 '63.   (MIRA 16:10)

(Harmonic functions)

ABEL', V.V., (Moskva)

General solution of the plane problem for a wedge. Inzh. zhur.
3 no.3:575-578 '63.   (MIRA 16:10)

(Wedges)

ABEL', V.V. (Moskva)

Torsion of a prismatic rod with an arbitrary hexagonal cross section.
Inzh.zhur. 4 no.3:495-503 '64.   (MIRA 17:10)

ABEL', V.V., kand.tekhn.nauk, dotsent

Torsion calcualtion of prismatic shafts with an equilateral
trapeze or parallelogram cross section. Vest.mashinostr. 44
no.12:12-13 D '64.   (MIRA 18:2)

ABEL', V.V. (Moskva)

Bending of a plate of arbitrary trapezoidal shape in the plane.
Inzh. zhur. 5 no.5:883-894 '65.

(MIRA 18:10)

ABELE, E.

Proper fertilization in gardening.

p. 21 (Padomju Latvijas Kolchoznieks) Vol. 9, No. 8, Aug. 1957, Riga, Latvia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

ABELE, E., nauchnyy sotrudnik; KAL'NYN'SH, O.[Kalninš,O.], nauchnyy sotrudnik

Fertilize hothouse crops correctly. Nauka i perod.op.v sel'khoz.
9 no.1:61 Ja '59.   (MIRA 13:3)

1. Latviyskiy nauchno-issledovatel'skiy institut zemledeliya.
   (Fertilizers and manures) (Greenhouse management)

ABELE, L., inzh.; TROITSKIY, V., inzh.

Office of technological innovations in commercial aeronautics.
Grazhd. av. 20 no.3:27 Mr '63.   (MIRA 16:4)

(Aeronautics, Commercial—Technological
                                    innovations)

ABELE M.K.

SHTEYNS, K.A.; ABELE, M.K.

Expansion of the association Cepheus II [with summary in English].
Astron. zhur. 35 no.1:82-85 Ja-F '58.   (MIRA 11:3)

1. Astronomicheskaya observatoriya Latviyskogo gosudarstvennogo
universiteta.
                        (Cepheids)

3.2100

SOV/33-37-1-21/31

AUTHOR: Abele, M. K.

TITLE: Application of Long-Focus Cameras to Determination of
            Coordinates of Faint Artificial Satellites

PERIODICAL: Astronomicheskiy zhurnal, 1960, Vol 37, Nr 1,
            pp 140-145 (USSR)

ABSTRACT: Photographic observations of artificial satellites are
            usually made with fast short-focus cameras which give
            an accuracy from 5" to 15", and registered time errors
            from $0^S.003$ to $0^S.010$. But some problems require
            greater accuracy. The author describes two devices
            introduced at the Latvian Observatory. If the satellite
            is brighter than 8th magnitude, it is possible to
            obtain its images by interrupting the exposures, or
            by sliding the plateholder periodically by as much as
            3 mm. Such a plateholder was constructed at the Riga
            Station of the Observatory. In 1959, between May 1
            and May 30, eleven photographs of satellite 1958

Card 1/3   2

Application of Long-Focus Cameras to   78021
Determination of Coordinates of Faint   SOV/33-37-1-21/31
Artificial Satellites

were obtained with an objective Telemar (F = 75 cm; D/F = 1/6.3). Of these, 7 were good enough for measuring and reducing. The time was recorded simultaneously with a chronograph. It is not necessary to have a fast shutter with this plateholder, and unnecessary vibrations are avoided. Instead of the plateholder, sliding by steps linearly, sinosoidal vibrations may be used for the same purpose. This device has also been tried at the same place. One of the advantages of this second device is that the time is registered with an electron oscillograph; no mechanical parts are involved, and all retardations are obviated. Photographs of rocket 1958 $_1$ were obtained but the camera lens was not large enough to get satellite 1958 $_2$. When either of these attachments were used, the errors in measured positions did not exceed 2" and the errors of recorded time were

Card 2/3   less than 0^s001. There are 6 figures; and 7 references:

Application of Long-Focus Cameras to   /8021
Determination of Coordinates of Faint   SOV/33-37-1-21/31
Artificial Satellites

              5 Soviet, 2 U.S. The U.S. references are: K G. Henize,
              Sky and Telescore, 16, 108 (1957); Sky and Telescope,
              17, 6 (1957).

ASSOCIATION: Astronomical Observatory of the Latvian State University
              (Astronomicheskaya observatoriya Latviyskogo gosud-
              arstvennogo universiteta

SUBMITTED: September 5, 1959

Card 3/3

ABELE, M.K. (Riga); LAPUSHKA, K.K. (Riga)

Observations of artificial earth satellites with a triaxial guided camera. Biul.sta.opt.nabl.isk.sput.Zem. no.29:5-7 '62.
(MIRA 16:2)

1. Astronomicheskaya observatoriya Latviyskogo gosudarstvennogo universiteta im. Petra Stuchki.
(Artificial satellites—Tracking) (Astronomical photography)

ABELE, M.K. (Riga); LAPUSHKA, K.K. (Riga)

Electronic computer for automatic measurement and processing
of negative plates with the UIM-21 microscope. Biul.sta.opt.
nabl.isk.sput.Zem. no.29:7-12 '62.   (MIRA 16:2)

1. Astronomicheskaya observatoriya Latviyskogo gosudarstvennogo
universiteta im. Petra Stuchki.
                     (Electronic computers)

L 22611-65   RBO-2/EWT(d)/PBD/FSF(h)/FSS-2/EWT(1)/FS(v)-3/EEC(k)-2/EWA(d)/T/EEC(o)-2/
SCT-2 EED(b)-3   Pn-L/Po-L/Pq-L/Pac-L/Pg-L/Pae-2/Pn-L/Pk-L/Pl-L   IJP(c)   JW/WR

ACCESSION NR: AT5003483   S/3126/62/000/001/0055/0064

TITLE: A three-axis automatic photographic camera for satellite
tracking

SOURCE: Nablyudeniya iskusstvennykh sputnik v Zemli, no. 1, 1957-1962.

TOPIC TAGS: satellite tracking, tracking camera

ABSTRACT: The article describes in detail a camera (f = 75 cm,
D/f = 1:3.5, field of view 4 x 5°) for tracking satellites, especially
those of low optical density. A method of compensating for the speed
of the satellite by movement of the photographic plate is used to keep
the image on the same spot long enough to obtain a sufficient exposure.
The three-axis system of the Baker-Nunn camera (Sky and Telescope, 16,
1957, 108) was utilized, with certain modifications, to eliminate the

Card 1/3

L 12011-65
ACCESSION NR: AT5003483

accurate ephemeris. The system consist of a guiding tel-

state mountings for rotational

objective

and the "Eq

termined on the basis of positions of the refer

ASSOCIATION: none

3 / 3

L 45310-66   EWT(1)/EWC(k)-2   GW

ACC NR: AR6016279   SOURCE CODE: UR/0269/66/000/001/0013/0013

AUTHOR: Abele, M. K.

TITLE: On calculating the ephemerides of the ANNA I-B satellite and the Echo satellite carrier rocket

SOURCE: Ref. zh. Astronomiya, Abs. 1.51.96

REF SOURCE: Byul. st. optich. nablyudeniya iskusstv. sputnikov Zemli, no. 41, 1964, 3-9

TOPIC TAGS: artificial satellite, satellite motion,

ABSTRACT: A simple and convenient method for calculating the ephemerides of a satellite with a small eccentric orbit is reported. Transcendental equations, solved by sequential approximation, are established for finding the points of satellite culmination. To facilitate solution of these equations, graphs have been plotted for the relation of the argument of latitude, the azimuth, the moment of culmination, and also the angular velocity of satellite movement in the celestial sphere at the moment of culmination to the hour angle of ascending node of the orbit. Such graphs are produced for the ANNA I-B satellite and for the Echo carrier rocket. Bibliography of 6 titles. Yu. B. /Translation of abstract/

SUB CODE: 03 22

Card 1/

UDC: 521.3:629.195.1

PIDOPLICHKO, I.G. [Pidoplichko, I.H.], otv. red.; VOINSTVENSKIY,
     M.A.[Voinstvens'kyi, M.A.], doktor biol. nauk zam. otv.
     red.; KISTYAKIVSKIY, O.B.[Kistiakivs'kyi, O.B.], doktor
     biol. nauk, red.; MAZHUGA, P.M.[Mazhuha, P.M.], doktor
     biol. nauk, red.; ABELENTSEV, V.G.[Abolientsev, V.H.],
     kand. biol. nauk, red.; SHARPILO, L.D., red.

     [Terrestrial vertebrates of the Ukraine; ecology, distribu-
     tion, history of the fauna] Nazemni khrebetni Ukrainy; eko-
     logiia, pozhyrennia, istoriia fauny. Kyiv, Naukova dumka,
     1965. 123 p.   (MIRA 18:9)

     1. Akademiya nauk URSR, Kiev. 2. Chlen-korrespondent Ukr.SSR
     (for Pidoplichko). 3. Institut zoologii AN Ukr.SSR (for
     Abelentsev, Voinstvenskiy).

ABRIENTSEV, V.I.

Bats in Transcarpathia and other western provinces of the Ukrainian
S.S.R. Nauk.sap.Kiev.un.9 no.6:59-74 '50.   (MLRA 9:10)
                        (Ukraine--Bats)

ABELENTSEV, V.I.

"Distribution of Rodents in Young Shelterbelts and in the Interlying Fields
of Grasslands Crop Rotation on the Steppe of the USSR," Trudy Inst Zool, AN
AZSR 6, 1951.

FDRA July 1952

ABELENTSEV, V. I.

"Biology of, Damage Cuased by, and the Measures Taken Against the Mole-Rat in Shelterbelts and in the Fields," Trudy Inst. Zool., AN KSR 6, 1951

MLRA July 1952

AHELYANTSKY, V.I.; PIDOPLICHKO, I.G., doktor biologichnykh nauk, professor; POPOV, B.M. [deceased]; BILANOVS'KIY, I.D., doktor biologichnykh nauk, redaktor; KAS'YANENKO, V.G., akademik, redaktor; MARKEVICH, O.P., redaktor; SENCHENKO, O.S., redaktor vidavnitstva; ROZENTSVEYG, Ye.N., tekhnichniy reduktor

[Fauna of the Ukraine; in forty volumes] Fauna Ukrainy; v soroka tomakh. Kyiv, Vyd-vo Akademii nauk URSR. Vol. [Mammals] Ssavtsi. No.1. [General characteristics of mammals; insectivores, bats] Zahal'na kharakterystyka ssavtsiv, komakhoidni, kazhany. 1956.
445 p.   (MIRA 10:3)
        (Mammals)   (Ukraine--Bats)   (Ukraine--Insectivora)

ABELENTSEV, V.I. [Abelientsev, V.I.]

Economic importance of bats, their conservation and attraction to forest stands. Mat.pro okhor.pryr.na Ukr. no.1: 117-126 '58.   (MIRA 13:3)
        (Ukraine--Bats)

ABELENTSEV, V.I. [Abelientsev, V.I.]

Materials on the food of the stone marten [with summary in English]. Nauk.zap.Nauk.-pryrod.muz.AN URSR 6:147-158 '58.
(MIRA 12:1)

(Ukraine--Martens)

ABELENTSEV, V.I., starshiy nauchnyy sotrudnik

Baits for rat control on stockbreeding farms. Veterinariia 36
no.3:65-66 Mr '59.   (MIRA 12:4)

1. Institut zoologii AN USSR.
           (Ukraine--Rat baits and repellents)

ABRLENTSEV, V. I.   [Abeltentsev, V.I.]; RUDYSHIN, M.P. [Rudyshyn, M.P.]

Ecology of Cricetulus migratorius Pallas in the Ukraine. Nauk. zap.
Nauk-pryrod. mus. An URSR 8:104-119 '60.   (MIRA 13:11)
                         (Ukraine—Hamsters)

ABELENTSEV, V.I. [Abelientsev, V.I.]

Ecological features of the occurrence of rats on stock
farms in the Ukraine. Pratsi Inst.zool.AN URSR 16:43-49
'60.   (MIRA 13:7)
              (Ukraine--Rats)

ABELENTSEV, V. I.

"Experimental investigations of natural intraspecific hybridization in free-living mammals in Russia."

report presented at the Intl. Symposium on Methods of Theriological Investigation. Brno, Czech.,
26 aug - 4Sept. 1960

PA 38/49T61

ABELEV, A. S.

USSR/Engineering   Mar 49
    Dams
    Hydroelectric Plants

"The Use of Ordinary Spillway-Bank Constructions
to Protect a Structure From Being Undermined,"
A. S. Abelev, Cand Tech Sci, 3 pp

"Gidrotekh Stroi" No 3

Spillway bank was constructed on basis of model-
dam experiments by Prof I. I. Levi to prevent
undercutting of dams for hydroelectric stations.
This spillway bank deflects the collected stream
away from the wall.

38/49T61

ABELEV,A. S.

1/50T34

USSR/Engineering - Locks, Throttle   Sep 49

"Resistance of Throttle Locks," A. S. Abelev,
Cand Tech Sci, 3 pp

"Gidrotekh Stroi" No 9

Presents method for establishing a functional
relationship between the coefficient of resist-
ance of a lock and the degree of its opening.
Calculates several values for coefficient of
resistance for various openings of the lock,
using different formulas, with results in four
tables.

1/50T34

ABELEV, A.S., dotsent, kandidat tekhnicheskikh nauk.

Calculating hydraulic resistances in butterfly gates. Izv.
VNIIG no.40:134-148 '49.

(MLRA 10:2)

(Sluice gates)

ABELEV, A.S., dotsent, kandidat tekhnicheskikh nauk.

Using a spillway curve to protect structures from scour where the spillway front is very narrow. Izv. VNIIG no.40: 154-156 '49.

(MLRA 10:2)

(Spillways)

ABELEV, A.S., dots., kand.tekhn.nauk

Deep-seated water gates with efficient hydraulic and mechanical operational characteristics. Izv.VNIIG 48:56-68 '52.
(MIRA 12:5)
(Locks (Hydraulic engineering))

ABELEV, A.S., dots., kand.tekhn.nauk

Using two tandem gates for dissipation of energy and prevention
of vibration and cavitation phenomena in penstocks. Izv.
VNIIG 50:180-196 '53.   (MIRA 12:5)
                        (Penstocks)

ABELEV, A.S., dots., kand.tekhn.nauk

Determining the type for deep-seated water gates for water
conduits of locks. Izv.VNIIG 48:43-55 '52.   (MIRA 12:5)
(Locks (Hydraulic engineering))

ABELEV, A. S. AND KRUCHININA, A. A.

Reducing the Erosion Action of a Stream by a Special Construction of
Spillway Dam Nozzles

The authors describe the results of a laboratory investigation of a
hydropower station made up of an earth dam, a concrete spillway dam about
70 meters high, a hydroelectric station, and a lock for ships. They
describe the modeling apparatus used but do not indicate its size. There
are no calculations indicated. Reference is made to an earlier article
by A. S. Abelev in a 1949 issue of the same periodical. (RZhMekh, No. 6,
1955) Izv. Vses. n.-i. in-ta Gidrotekhniki, Vol 52, 1954, 96-103.

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific
     Abstracts (17)

ABELEV, A.S., dotsent, kandidat tekhnicheskikh nauk.

Basic problems in calculating and investigating vibration of
the gates of hydraulic structures. Izv.VNIIG no.54:106-125
'55.
                    (Sluice gates)   (MIRA 10:3)

SOV/124-58-8-8733

AUTHOR: Abelev, A.S.

TITLE: Results of Hydraulic Investigations of the Mechanical Equip-
           ment of Hydraulic Structures and an Account of Studies Made
           of Water-gate Vibration (Itogi gidravlicheskikh issledovaniy
           mekhanicheskogo oborudovaniya gidrotekhnicheskikh sooru-
           zheniy i voprosy izucheniya vibratsii zatvorev)

PERIODICAL: Tr. Nauchno-tekhn. soveshchaniya po gidromekhan. oboru-
           dovaniyu GES, Moscow-Leningrad, Gosenergoizdat, 1957,
           pp 101-126

ABSTRACT: This is a brief survey of hydraulic investigations that have
           been made of various types of subsurface water gates used on
           hydraulic structures, and it includes a description of the basic
           results obtained from a laboratory study of the hydrodynamic
           load borne by a plane water gate. A rigid model of a water
           gate was fastened to flexible cantilever supports, which enab-
           led the author with the aid of strain-gage pickups to measure
           the vibrations produced by pulsating hydrodynamic forces
Card 1/2   vertically and horizontally at several points on the water gate.

SOV/124-58-8-8733

Results of Hydraulic Investigations of the Mechanical Equipment (cont.)

Included also are oscillograms showing the extent to which the vibrations
at different points on the gate correlate with the conditions of flow past the
gate. The maximum fluctuation of the total load intensity was 6-7% of the
mean load intensity. On the basis of the measurements made, the formu-
lae of gravitational similarity are used to estimate the hydrodynamic loads
to be expected under full-scale conditions. Frequency spectra are given
for the most powerful vibrations, and the question is raised as to the pos-
sibility of resonance and the means that could be employed to prevent it.
Bibliography: 26 references.

B.A. Fidman

Card 2/2

ABELEV, A.S., dotsent, kand.tekhn.nauk

Investigating the pulsations of a hydrodynamic gross load
as a basis for calculating the vibration of flat submerged
gates. Izv.VNIIG 58:26-51 '58.   (MIRA 13:7)
            (Sluice--Vibration)

ABELEV, A.S., dotsent, kand.tekhn.nauk

Model studies of the pulsation of a hydrodynamic gross
load on flat gates. Izv.VNIIG 61:3-16 '58.
        (Sluice gates) (Hydraulic models)

ABELEV, Aleksandr Solomonovich; kand.tekhn.nauk; ARAVIN, V.I., prof.,
doktor tekhn.nauk, red.; IOFINOVA, M.A., red.; BARANOVA, L.G.,
tekhn.red.

[Rural water supply and principles of hydraulics] Sel'skokho-
ziaistvennoe vodosnabzhenie s osnovami gidravliki. Pod red. V.I.
Aravina. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. 406 p.
(MIRA 14:1)

(Water supply, Rural)   (Hydraulics)

44957

S/124/63/000/001/022/080
D234/D308

AUTHOR: Abelev, A.S.

TITLE: Investigation of the pulsation of total hydrodynamic
                loads acting on throttle seals

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 60,
                abstract 1B372 (Izv. Vses. n.-i. in-ta gidrotekhn.,
                1962, v. 69, 21-44)

TEXT: In order to find disturbing loads applied to throttle
seals, the author investigated the pulsation of the total hydrodynamic
torque M' acting on these seals. The experimental method and install-
ation were the same as in testing depth seals (see Izv. Vses. n.-i.
in-ta gidrotekhn. 1958, v. 58, 26-51; 1961, v. 68, 33-68 – RZhMekh.
1960, no. 1, 573; 1962, 11B427). The paper gives data specifying the
installation for the present investigations. The pulsation character-
istics are functions of the following independent variables: maximum
amplitude $P'_{max} = f(v_1^2/2g, \varphi) = f(H, \psi)$, maximum amplitude $M'_{max} =$

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$f(v_1^2/2g, \varphi) = f(H, \varphi)$, dominating frequency $N_d = f(v_1, \varphi) = f(\sqrt{H}, \varphi)$, H being the drop in the water level, φ the angle of rotation of the seal, v_1 the mean velocity in the sections passing through both edges of the seal. Universal design dependencies for the determination of these quantities are plotted. Approximate limits for the frequency spectrum are recommended: $N_{max} \approx 2.2\ N_d$ and $N_{min} \approx 0.30$ N_d. It was established experimentally that the maximum amplitudes of the pulsations reach their largest value at $\varphi = 77.5^{\circ}$ and the dominating frequencies for these seal openings are characterized by their lowest value. 9 references.
/ Abstracter's note: Complete translation /

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44958
S/124/63/000/001/023/080
D234/D308

AUTHOR: Abelev, A.S.

TITLE: Investigation of the pulsation of total hydrodynamic
            loads acting on segment depth seals

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 60-61,
            abstract 1B373 (Izv. Vses. n.-i. in-ta gidrotekhn.
            1962, v. 69, 45-70)

TEXT: The experimental method and installation are des-
cribed in previous papers by the author (see Izv. Vses. n.-i. in-ta
gidrotekhn. 1955, v. 54, 106-125; 1961, v. 68, 33-68 - RZhMekh., 1956,
no. 12, 8662; 1962, 11B427 and 1B372 in the present number).   Data
specifying the installation for the present investigations are given.
The pulsation characteristics are functions of the following indepen-
dent variables: the maximum amplitude of the total hydrodynamic force

$$P'_{max} = f(v_1^2/2g, n_1) = f(H, n_1)$$

and the dominating frequency

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$$N_d = f(v_1, n_1) = f(\sqrt{H}, n_1)$$

where H is the drop in the water leve, $n_1 = a/h$, is the relative seal opening (a is the height to which the lower edge of the seal is raised, h is the height of the orifice covered by the seal). The author gives graphs of the universal design dependence for the variation of maximum pulsation amplitudes of components of total hydrodynamic forces along x_1 and y_1 axes transferred to the supporting axis of the seal, and of the component of such forces along the k_1 axis transferred to the lifting rod of the seal. A graph for the determination of similar three components of $N_d = f(n_1)$ is also given. The upper limit of the frequency spectrum is $N_{max} \sim 2.5\ N_{d_x}$, $N_{max_{y_1}} \sim 2.3\ N_{d_{y_1}}$

$N_{max_{k_1}} \sim 3.0\ N_{d_{k_1}}$, the lower limit is $N_{min_{x_1}} \sim 0.20\ N_{d_{x_1}}$, $N_{min_{y_1}} \sim$ $0.20\ N_{d_{y_1}}$, $N_{min_{k_1}} \sim 0.27\ N_{d_{k_1}}$. It is pointed out that to decrease

the pulsation loads and consequently the possible vibration of the

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seals it is necessary to secure stabilized operating conditions with-
out pressure in which the jump is outside the water pipe, or for stab-
ilized operating conditions with pressure. 20 references.
/ Abstracter's note: Complete translation_7

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NOVIKOV, I.T.; NEPOROZHNIY, P.S.; GINZBURG, S.Z.; BELYAKOV, A.A.;
    ERISTOV, V.S.; VOZNESENSKIY, A.N.; IVANTSOV, N.M.;
    BOROVOY, A.A.; TERMAN, I.A.; ALEKSANDROV, B.K.;
    YURINOV, D.M.; NOSOV, R.P.; MIKHAYLOV, A.V.; NICHIPOROVICH, A.A.;
    ABELEV, A.S.; PROSKURYAKOV, B.V.; MENKEL', M.F.; KRITSKIY, S.N.;
    BELYY, L.D.

    Mikhail Evgen'evich Knorre. Gidr. stroi. 32 no.5: My '62.
                                                    (MIRA 15:5)
            (Knorre, Mikhail Evgen'evich, 1876-1962)

l4956

S/124/63/000/001/021/080
D234/D308

17.1106

AUTHOR: Abelev, A.S.

TITLE: Relation between pressure pulsation at separate
                 points of the seal and pulsation of the total
                 hydrodynamic load acting on the seal

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 1, 1963, 60,
                 abstract 1B371 (Izv. Vses. n.-i. in-ta gidrotekhn.
                 1962, v. 69, 3-19)

TEXT: As is stated in a previous work by the author (see
Izv. Vses. n.-i. in-ta gidrotekhn. 1955, v. 54, 106-125), during the
operation of the seal there can be vibrations of the span structure
as a solid body, and vibrations of the seal as a whole, non-deform-
able solid body, owing to the deformation of supports and suspensions.
The author had previously investigated the pulsation of total hydro-
dynamic loads acting on vibrating models of depth seals (see Izv.
Vses. n.-i. in-ta gidrotekhn. 1961, v. 68, 33-68-Rzhliekh. 1961,
11B427). But this method does not make possible the determination

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Relation between pressure ...

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of the value of point pulsation required for estimating the vibra-
tion of the seal as an elastic body, nor the design of its separate
elements for dynamic loads. Owing to this, the author has investi-
gated the connection between pressure pulsation at separate points
of the seal and the pulsation of the total hydrodynamic load acting
on the seal. A model of a flat depth seal was used, with different
relative openings (n = 0.2 - 1.0), different heads and flow rates.
It is established that for these openings there is no averaging of
pressure pulsation over the area of the lower end face of the seal.
The dominating pulsation frequencies of hydrodynamic pressures and
of total hydraulic loads acting vertically on the seal were found
to be approximately equal. The transition coefficient k character-
izing the averaging of pulsation of hydrodynamic pressures over the
area of the head face of the seal can be determined from the equa-
tion k = 1 + 3.3 (1 - n). The coefficient of nonuniformity of the
distribution of maximum amplitudes of the pulsation of hydrodynamic
pressures along the height of the seal is characterized by C = 1 +
0.532 (1 - n). For the recalculation of the dominating frequencies
of the maximum pulsation under investigation, the author establishes
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Relation between pressure ...

a transition coefficient $\lambda = 3.2\ n^{1.46}e^{-1.17n}$. If there are data on maximum amplitudes of point pulsations, obtained by recalculation according to the above equation, one can find extremal values of hydrodynamic pressures acting on different points of the seal from the formula

$$P_{ext} = \overline{P} \pm 0.5\ P'_{max},$$

where $\overline{P}$ is the averaged hydrodynamic pressure at a given point and P'_{max} is the corresponding maximum amplitude of hydrodynamic pressure pulsation. 12 references.
/ Abstracter's note: Complete translation 7

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