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- Ch. X. The Manufacturing Process and Organization in the Stamping of Bodies at the Automobile Plant "National Enterprise (AZNP) Mladá Boleslav" [Z. Kejval, AZNP, Mladá Boleslav] 397
- Ch. XI. The Mechanization of Obsolete Enterprises as a Means of Increasing Labor Productivity [B. Šauer, Vítkovice Metallurgical Plant imeni Klement Gottwald, Ostrava] 410
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Card 7/8

LOBACHEV, P.V.; MIKHEYEV, O.P.

Automatic water-raising installations for local water-supply
systems. Vod. i san. tekhn. no.6:6-13 Jq '61. (MIRA 14:6)

(Water--Distribution)

KAGAN, D.F., kand. tekhn.nauk; VANYAKIN, D.M., kand. tekhn. nauk;
LOBACHEV, P.V., kand. tekhn. nauk; YEKHLAKOV, S.V., inzh.;
PAVLOV, L.D., inzh.; RUZIN, M.Ya., inzh.; ANDREYEVA, I.N.,
inzh.; SHMAKOVA, G.D., inzh. Prinimali uchastiye:
SAPOZHNIKOV, M.M., kand. tekhn. nauk; GEFDING, A.K., kand.
tekhn. nauk; MALINOVSKIY, R.B., inzh.; STRASHNYKH, V.P.,
red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Instructions for designing, installing, operating, and
repairing interior water supply systems using vinyl plastic
pipes] Ukazaniia po proektirovaniu, montazhu, ekspluatatsii
i remontu vnutrennikh vodoprovodov iz viniplastovykh trub.
Moskva, Gos. izd-vo lit-ry po stroit., arkhit. i stroit. ma-
terialam, 1961. 91 p. (MIRA 15:2)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sa-
nitarnoy tekhniki. 2. Nauchno-issledovatel'skiy institut sa-
nitarnoy tekhniki Akademii stroitel'stva i arkhitektury SSSR
(for Kagan, Vanyakin, Lobachev, Yekhlakov, Pavlov, Ruzin,
Andreyeva, Shmakova). 3. Leningradskiy nauchno-issledovatel'skiy
institut Akademii kommunal'nogo khozyaystva im. K.D.Pamfilova
(for Sapozhnikov). 4. Vsesoyuznyy nauchno-issledovatel'skiy in-
stitut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot
(for Gefding). 5. Institut po proyektirovaniyu zhilishchno-
grazhdanskogo stroitel'stva v g. Moskve (for Malinovskiy).
(Water pipes)

SHEVELEV, F.A.; VANYAKIN, D.M.; LOBACHEV, P.V.; YEKHLAKOV, S.V.

Designing, assembling, using, and repairing interior water pipes
made of vinyl plastic. Sbor.trud.NIIIST no.8:5-25 '61. (MIRA 15:5)

(Pipe, Plastic)

LOBACHEV, P. V.

Vinyl plastic nozzles and venturi tubes. Ved. 1 san. tekh.
no.9:32-33 S '61. (MIRA 14:11)

(Nozzles)

(Venturi tubes)

ADAMOVICH, P.V.; BATURIN, V.V.; VAKHVAKHOV, G.G.; VAYNGAUZ, L.G.;
VILENSKIY, Ye.Ya.; GAMBURG, P.Yu.; DAVYDOV, Yu.S.; KARPIS,
Ye.Ye.; KUZNETSOVA, Z.I.; KOPYEV, S.F.; LIVCHAK, I.F.;
LOBACHEV, P.V.; LEV, G.M.; NOTKIN, Ye.M.; PIRUMOV, A. I.;
POLIKARPOV, V.F.; PROTOPOPOV, A.P.; REPIN, N.N.; SLADKOV,
S.P.; TALIYEV, V.N.; TROITSKAYA, F.B.; FEDOROV, M.N.;
SHEVELEV, F.A.; SHKABEL'NIKOVA, L.P.; SHCHUTSKIY, A.I.;
SMIRNOV, L.I., inzh., nauchnyy red.; SMIRNOVA, A.P., red.
izd-va; MOCHALINA, Z.S., tekhn. red.; RODINOVA, V.R., tekhn.
red.

[Present level and prospects for the development of sanitary
engineering and the production of sanitary engineering equip-
ment] Sovremennyyi uroven' i perspektivy razvitiia sanitarnoi
tekhniki i proizvodstva sanitarno-tekhnicheskogo oborudova-
niia. Moskva, Gosstroizdat, 1962. 283 p. (MIRA 15:8)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut
sanitarnoy tekhniki.

(SANITARY ENGINEERING)

LOBACHEV, P.V., kand.tekhn.nauk; TERYUKHANOV, F.F., inzh.

Hydraulic calculations for interior leaders in buildings.
Vod. i san. tekhn. no.9:5-8 '62. (MIRA 15:12)
(Drainage, House)

LOBACHEV, P.V., kand. tekhn. nauk; SHOPENSKIY, L.A.

Some methods of improving the performance of water pipes in
buildings. Sbor. trud. NIIST no.11:69-88 '62 (MIRA 18:1)

LOBACHEV, P.V., kand.tekhn.nauk; RUZIN, M.Ya., inzh.

Nomograms for the hydraulic design of polyethylene pipes. Vod. 1
san. tekhn. no.5:29-31 My '63. (MIRA 16:6)
(Pipe, Plastic)

LOBACHEV, Petr Vladimirovich, kand. tekhn. nauk; LOBACHEV, Yevgeniy
Leonidovich, inzh.; MUSKAT, L.V., inzh., nauchn. red.;
BYSTROVSKAYA, N.A., red.izd-va; SHERSTNEVA, N.V., tekhn.red.

[Study of materials used in sanitary engineering] Materialo-
vedenie po sanitarnoi tekhnike. Moskva, Gosstroiizdat, 1963.
187 p. (MIRA 16:10)
(Sanitary engineering--Equipment and supplies)

LOBACHEV, P.V., kand. tekhn.nauk,; MIKHEYEV, O.P., inzh.

[Technical data on automatic water-lifting equipment with an operating efficiency of 1 to 15 m³/per hour] Tekhnicheskie dannye avtomaticheskikh vodopod'emnykh ustanovok proizvoditel'nostiu ot 1 do 15 m³/ chas. Moskva, 1962. 15 p.
(MIRA 17:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut sanitarnoy tekhniki.

LOBACHEV, P.V., kand. tekhn. nauk

Selecting high-speed water meters for calculating the water
consumption in residential buildings. Vod. i san. tekhn. no.6:29-31
Ja '64. (MIRA 18:1)

LOBACHEV, Petr Vladimirovich; SHEVELEV, Firs Aleksandrovich;
TOL'TSMAN, V.F., nauchn. red.; GSEKHO, L.M., red.

[Water meters for water supply lines and sewer systems]
Vodomery dlia vodoprovodov i kanalizatsii. 3. izd., isp.
i dop. Moskva, Stroizdat, 1964. 329 p. (MIRA 17:6)

KUDRYAVTSEVA, A.S., inzh., red.; LOBACHEV, F.V., kand. tekhn. nauk,
red.

[Instructions for designing interior drains for buildings]
Ukazaniia po proektirovaniu vnutrennikh vodostokov zdani
(SN 264-63). Moskva, Stroiizdat, 1964. 41 p.

(MIRA 17:8)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po de-
lam stroitel'stva. 2. Gosstroy SSSR (for Kudryavtseva).
3. Nauchno-issledovatel'skiy institut sanitarnoy tekhniki
(for Lobachev).

LENSKIY, Vasilii Alekseyevich; PAVLOV, Vasilii Ivanovich [deceased];
ABRAMOV, N.N., retsenzent; ZHUKOV, A.I., retsenzent;
YAKOVLEV, S.V., retsenzent; LOBACHEV, F.V., retsenzent;
REZVIN, Ye.Ye., retsenzent; TIKUNOV, B.S., kand. tekhn. nauk,
red.; MARTYNOV, A.P., red.

[Water supply and sewerage] Vodosnabzhenie i kanalizatsiia.
Izd.3., perer. i dop. Moskva, Vysshaya shkola, 1964. 386 p.
(MIRA 17:10)

LOBACHEV, P.V.

Some problems in the development of the technology of machinery
manufacture. Vest. mashinostr. 44 no.11:3-6 N '64
(MIRA 18:2)

1. Nachal'nik Upravleniya po razvitiyu kuznechno-pressovogo i
liteynogo mashinostroyeniya Gosudarstvennogo komiteta po mashi-
nostroyeniyu pri Gosplane SSSR.

LOBACHEV, P.V., kand.tekhn. nauk.

Specifications for Venturi nozzles. Vol. 1 san. tekhn.
no.2:12-13 F '65. (MIRA 18:4)

LOBACHEV, P.V., kand.tekhn.nauk

Book review. Vod. i san. tekhn. no.7:40 JI '65.

(MIRA 18:8)

LOBACHEV, P.V. kand. tekhn. nauk

Hydraulic calculation of overflow pipes. Vod. i san. tekhn.
no. 4: 11-12 Ap '65.

(MIRA 19:1)

LOBACHEV, S. Y.

CA

17

Constants of oils from domestic mammals and their use in treatment of certain wounds. S. Y. Lobachev. *Sov. Med.* 7, No. 10, 21-2 (1943). --Oil from domestic animals obtained during the winter hibernation (bear and badger) appears to have medicinal value due to vitamins A and D, and to iodine. This oil assists the regenerative processes and accelerates the course of healing of wounds. These properties are not observed in oils extrd. from animals during the spring or summer. The oil from the bear is superior to that from the badger. The oils may be used directly or as an emulsion; in the latter case the emulsion must be protected during storage from bacterial deterioration by an added antiseptic. The constants of the oil from bears (*Ursus arctos L.*) in hibernation are: sp. gr. at 15°, 0.91 and 0.91; η at 40°, 62.0 and 63.3; iodine no., 73.13 and 78.07; sapon. no., 105.23 and 200.27; fusion temp., 30° and 35°, and solidification temp., 21° and 1° for oil from outer and inner layers, resp. Similarly the data for badger (*Meles meles L.*) oils are: sp. gr., 0.92 and 0.92; η , 51.9 and 52.5; iodine no., 70.0 and 73.2; sapon. no., 200.00 and 203.0; fusion temp., 35° and 34°; and solidification temp., 22° and 1° for oils from outer and inner layers, resp. Data for oils from fox (*Vulpes vulpes L.*), mink (*Lutroca lutroca L.*), timber marten (*Martes martes L.*), skunk (*Putorius putorius L.*), and common squirrel (*Sciurus vulgaris L.*) are: sp. gr. 0.9227, 0.9202, 0.9220, 0.9300, and 0.92; iodine no., 58.7, 64.5, 58.0, 63.4, and 107; sapon. no., 203, 218, 210, 201, and 218; fusion temp., 32°, 30°, 38°, 33°, and 11°; and solidification temp., 21°, 27°, 28°, 21°, and 1°.

H. L. Williams

ASS. S. A. METALLURGICAL LITERATURE CLASSIFICATION

LOBACHEV, S. V.

"Traumatic Heart," Khirurgiya, No. 4, 1949.

1st Surgical Clinic Inst. im. Skifosivskiy, -c1949-.

LOBACHEV, S.V.

[Acute pancreatitis] Ostrye pankreatity. Moskva, Gos. izd-vo med. lit-ry.
1953. 174 p. (MIRA 6:12)

(Pancreas--Diseases)

LOBACHEV, S.V.

Acute pancreatitides. Khirurgia, Moskva no. 1:17-26 Jan 1953.
(GLML 24:2)

1. Of the First Surgical Clinic (Head -- B. S. Rosanov), Moscow-
Municipal Scientific-Research Institute of First Aid imeni Sklifosov-
skiy (Head Physician -- Prof. B. A. Petrov).

LOBACHEV, S.V., doktor meditsinskikh nauk.

Cardiac wounds. Khirurgiia no.11:9-14 1 '53. (MLBA 6:12)

1. Iz 1-y khirurgicheskoy kliniki (sveduyushchiy - professor B.S.Rozanov) Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta skoroy pomoshchi im. Sklifosovskogo (glavnyy khirurg - professor B.A.Petrov).

(Heart—Wounds and injuries)

LOBACHEV, S.V., PANCHENKO, T.N., MARNKOV, G.M., KALITEYEVKAYA, V.F.

Danger zones of the heart; a preliminary report of an experimental study. [with summary in English] Eksper.khir. 1 no.1:39-47
Ja-F '56 (MIRA 11:10)

1. Iz pervoy khirurgicheskoy kliniki Instituta imeni Sklifosovskogo (zav. klinikoy-doktor meditsinskikh nauk S.V. Lovachev, glavnyy khirurg- prof. B.A. Petrov, direktor instituta - zaslyzhenyy vrach respubliky M.M. Tarasov).

(HEART, wounds and injuries,
exper., determ. of danger zones (Rus))

(WOUNDS AND INJURIES, exper.
hear, determ. of danger zones (Rus))

PETROV, B.A., professor (Moskva, Kotel'nicheskaya naberezhnaya, 1715, kv. 149); LOBACHEV, S.V., doktor meditsinskikh nauk

Surgery in acute pancreatitis, Vest.khir. 77 no.10:35-42 0 '56.
(MLBA 9:12)

1. Iz Instituta skoroy pomoshchi im. N.V.Skilfosovskogo (dir. - zasluzhannyy vrach USSR M.M.Tarasov)
(PANCREATITIS, surg.)

LOBACHEV, S.V., professor (Moskva, I-10, Kolkhoznaya pl., d.3); VINOGRADOVA,
O.I., kandidat meditsinskikh nauk (Moskva, I-10, Kolkhoznaya pl.d.3)

Strangulated hernia; Sklifosovski Institute material [with
summary in English, p.159]. Vest.khir. 78 no.3:62-72 Mr '57.
(MLRA 10:6)

1. Is 1-y khirurgicheskoy kliniki (zav. - prof. S.V.Lobachev)
Moskovskogo instituta skoroy pomoshchi im. N.V.Sklifosovskogo (gl.
khirurg - prof. B.A.Petrov).

(HERNIA, compl.

strangulation, statist. (Rus))

LOBACHEV, Sergey Vasil'yevich; VINOGRADOVA, Ol'ga Iosipovna

[Impacted hernias and their treatment] Ushchemlennye gryzhi
i ikh lechenie. Moskva, Medgiz, 1958. 78 p. (MIRA 13:8)
(HERNIA)

LOBACHEV, Sergey Vasil'yevich

[Surgery of wounds of the heart] Khirurgia raneni serdtsa.
Moskva, Medgiz, 1958. 89 p. (MIRA 12:4)
(HEART--SURGERY)

LOBACHEV, S.V., prof.

Errors in the treatment of acute pancreatitis. *Khirurgia* 35
no.2:20-26 F '59. (MIRA 12:5)

1. Iz Moskovskogo gorodskogo nauchno-issledovatel'skogo instituta
skoroy pomoshchi imeni Sklifosovskogo (dir. M.M.Tarasov, glavnyy
khirurg - prof. B.A.Petrov).
(PANCREATITIS, ther.
errors (Bus))

LOBACHEV, S.V.; VINOGRADOVA, O.I.

Closed abdominal trauma in the emergency surgical clinic. Vest.
khir. 84 no. 5:32-39 My '60. (MIRA 13:12)
(ABDOMEN—WOUNDS AND INJURIES)

BOGOSLAVSKIY, R.V., prof.; BREGADZE, I.L., prof.; VELIKORETSKIY, A.N.,
prof.; VINOGRADOV, V.V., doktor med. nauk; GROZDOV, D.M., prof.;
GULYAYEV, A.V., prof.; DZHAVADYAN, A.M., doktor med. nauk;
KRAVCHENKO, P.V., prof.; LOBACHEV, S.V., prof.; NIKOLAYEV, O.V.,
prof.; PYTEL', A.Ya., prof.; SMIRNOV, A.V., prof.; FAYERMAN, I.L.,
prof.; FUTORYAN, Ye.S.; SHELAGU, A.A., zas. deyatel' nauki, prof.;
BOLYAN, R.O., prof.[deceased]; PETROVSKIY, B.V., prof., otv. red.;
SENCHILO, K.K., tekhn. red.

[Multivolume manual on surgery]Mnogotomnoe rukovodstvo po khirurgii.
Otv.red.B.V.Petrovskii. Moskva, Medgiz. Vol.8.[Surgery of the liver,
biliary tract, pancreas, and spleen]Khirurgiia pecheni, zhelchnykh
putei, podzheludochnoi zhelezy i selezhenki. Red.toma A.V.Guliaev.
1962. 659 p. (MIRA 15:6)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Petrovskiy).
(LIVER--SURGERY) (PANCREAS--SURGERY) (SPLEEN--SURGERY)

LOBACHEV, S. V.

"Analytical Methods of Investigating the Solution of Certain
Nonlinear Integral and Integral-Differential Equations and Equations
With a Parameter-Dependent Kernel." Cand Phys-Math Sci, Moscow
Order of Lenin State U imeni M. V. Lomonosov, 10 Dec 54. (VM, 25 Nov
54)

Survey of Scientific and Technical Dissertations Defended at USSR
Higher Educational Institutions (11)

SO: Sum. No.521, 2 Jun 55

LOBACHEV, S.V.

One method for solving an integrodifferential equation. Trudy
KIPP no.16:3-5 '57. (MIRA 12:7)

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra matematiki i teoreticheskoy mekhaniki.
(Integral equations)

LOBACHEV, S.V.

N.N.Nazarov's generalization of the theory of nonlinear integral equations. Trudy KIPP no.16:7-15 '57. (MIRA 12:7)

1. Krasnodarskiy institut pishchevoy promyshlennosti, Mekhanicheskiy fakul'tet, kafedra matematiki i teoreticheskoy mekhaniki.
(Integral equations)

16(1) PHASE I BOOK EXPLOITATION SOV/2660

Vsesoyuznyy matematicheskiy s'ezd. 3rd, Moscow, 1956
Trudy. 5. 31. Kratkiye sodержimiyeh sekcionnykh doklady. Doklady
Inostrannykh nauchnykh (Transactions of the 3rd All-Union Mathem-
atical Conf. Foreign Scientists) Moscow, Izdatvo AN SSSR, 1959.
Report 2,200 copies printed.

Sponsoring Agency: Akademiya nauk SSSR. Matematicheskiy Institut.
Tech. Ed.: G.M. Shvechikho; Editorial Board: A.A. Abramov, V.G.
Bolyanskii, A.M. Kasal, B.Y. Medvedev, A.D. Myunkis, S.M.
Bilyanskiy (Nespolnyy), V.A. Uspeknyi, M.O. Chetyshev, O. Ye.
Rybolov, P. L. Shilov, V.A. Uspeknyi, M.O. Chetyshev, O. Ye.
Shilov, and A.L. Shilov.

PURPOSE: This book is intended for mathematicians and physicists.
COMMENT: The book is Volume IV of the Transactions of the Third All-
Union Mathematical Conference, held in June and July 1956. The

book is divided into two main parts. The first part contains sum-
maries of the papers presented by Soviet scientists at the Con-
ference that were not included in the first two volumes. The
second part contains the text of reports submitted to the editor
by non-Soviet scientists. In those cases when the non-Soviet
titles did not appear in the first two volumes, the titles of the
reports are listed and, if the paper was printed in the papers,
of this paper, reference is made to the appropriate volume, number theory,
volumes, etc. and non-Soviet, cover various topics: number theory,
both, ordinary differential and integral equations, functional theory,
functional analysis, probability theory, topology, mathematical
problems of mechanics and physics, computer, functional mathematics,
mathematical logic and the foundations of mathematics, and the
history of mathematics.

Bobchev, N.V. (Krasnodar). On the generalization of the
theory of linear integral equations of E.M. Nikanov 33

Byroshkin, I.B. (Leningrad). Certain formulas of the Fred-
holm method and their application to the problem of integra-
tion of error of approximate methods of solution of integral
equations 34

Bykhits, A.D. (Minsk), Ye. G. Gubari (Mozir'), and A. Ya.
Kukharavay (Polotsk). Two modifications of the concept of
a dynamic system on the plane 35

Enlich, O.I. (Odessa). Asymptotic expansions of the solution
of partial differential equations in powers of a small para-
meter at highest derivatives 36

Karavay, M.L. (L'viv). Subtraction method for the solution
of boundary value and mixed problems 36

Mul'tikht, Ye. B. (Pudanov). On integral equations with ex-
ponential nonlinearities 37

Card 8/34

LOBACHEV S.V.

LOBACHEV, S.V., doktor med.nauk; VINOGRADOVA, I.I., kand.med.nauk

Perforating ulcers of the stomach and duodenum in clinical
emergency surgery. Vest.khir. no.10:92-97 '61. (MIRA 14:10)

1. Iz khirurgicheskoy kliniki (zav. - prof. S.V. Lobachev) Mosk-
skogo gorodskogo ordena Trudovogo Krasnogo Znameni nauchno-issled-
vatel'skogo instituta skoroy pomoshchi im. N.V. Sklifosovskogo
(dir. - zasluzh. vrach USSR M.M. Tarasov).
(PEPTIC ULCER)

BAKULEV, A.N., akademik; BUNYATYAN, A.A., kand. med. nauk;
BURAKOVSKIY, V.I., doktor med. nauk; BUYANOV, V.M., dots.;
GULYAYEV, A.V., prof.; ZAKETSKIY, V.V., doktor med. nauk;
IVANOV, V.A., prof.; KOLESNIKOV, S.A., prof.; LOBACHEV,
S.V., prof.; LOPUKHIN, Yu.M., prof.; MURATOVA, Kh.N., doktor
med. nauk; PETROVSKIY, B.V., zasl. deyatel' nauki RSFSR, prof.;
SAVEL'YEV, V.S., prof.; SERGEYEV, V.M., doktor med. nauk;
SOLOV'YEV, G.M., prof.; SOLOV'YEVA, I.I.; BURAKOVSKIY, V.I.,
red.

[Multivolume manual on surgery] Mnogotomnoe rukovodstvo po khi-
rurgii. Moskva, Meditsina. Vol.6. Pt.1. 1965. 577 p.
(MIRA 18:10)

1. Deystvitel'nyy chlen AMN SSSR (for Petrovskiy).

FLIMENKO, F.D., Inst.; VIKTOROV, I.G., Inst.; SEMENSLAVSKIY, L.S., Inst.;
LOBACHIN, V.I., Inst.

Means for raising labor productivity in the power engineering departments of metallurgical plants. From. energ. 20 no.249-11 Apr '65.
(MIRA 18:8)

KLIMENKO, F.D., inzh.; VENDROV, I.G., inzh.; BOGUSLAVSKIY, L.B., inzh.;
LOBACHEV, V.A., inzh.

Means for increasing labor productivity in the power engineering
departments of metallurgical plants. Prom. energ. 20 no.9:8-11
S '65. (MIRA 18:9)

KLIMENKO, F.D.; VENDROV, I.G.; LOBACHEV, V.A.; KURGUZOV, G.I.

Increasing the replaceability ratio and the intensity of using
the equipment. Metallurg 10 no.12:41-42 D '65.
(MIRA 18:12)

ARKHANGEL'SKIY, Yu.A., otv. za vypusk; ATABEKOV, L.P.; GUBIN, S.A.; KLEYKOV, V.S.; KOROTKOV, V.I.; KLYCHKOV, P.F.; LUTSKER, T.D.; LOBACHEV, V.M.; MEKKEL', M.A.; MANUSADZHYANTS, Zh.G.; SIVAKON', L.F.; KHAYKIN, V.A.; IOFFE, M.L., red.; NIKOLAYEVA, L.N., tekhn. red.

[Safety regulations for truck transportation enterprises] Pravila tekhniki bezopasnosti dlia predpriatii avtomobil'nogo transporta. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 71 p. (MIRA 14:7)

1. Profsoyuz rabotnikov svyazi, rabochikh avtomobil'nogo transporta i shosseinykh dorog. Tsentral'nyy komitet. 2. Tsentral'nyy komitet profsoyuza rabotnikov svyazi rabochikh avtomobil'nogo transporta i shosseinykh dorog (for Arkhangel'skiy). 3. Ministerstvo avtomobil'nogo transporta Kazahskoi SSR (for Atabekov). 4. Ministerstvo avtomobil'nogo transporta i shosseinykh dorog RSFSR (for Gubin). 5. Moskovskiy avtomobil'no-dorozhnyy tekhnikum (for Kleykov, Korotkov). 6. Moszheldoravtopogruz (for Klychkov). 7. Ministerstvo avtomobil'nogo transporta i shosseinykh dorog USSR (for Lutsker). 8. Tekhnicheskaya inspektsiya Moskovskogo gorodskogo i oblastnogo sovetov profsoyuzov (for Lobachev, Mekkel'). 9. Laboratoriya okhrany truda Nauchno-issledovatel'skogo instituta avtomobil'nogo transporta (for Manusadzhants). 10. Ministerstvo avtomobil'nogo transporta i shosseinykh dorog Latviyskoy SSR (for Sivakon'). 11. Glavnoye upravleniye gruzovogo avtotransporta Mosgorispolkoma (for Khaykin).
- (Transportation, Automotive—Safety measures)

LOBACHEV, Vladimir Grigor'evich, 1883-

General method of hydraulic calculations for canals of various contours and roughness.
Moskva, Gos. izd-vo stroit. lit-ry, 1939. 66 p. (50-40627)

TC175.L6

LATYSHENKOV, A.M., dotsent, kandidat tekhnicheskikh nauk; LOBACHEV, V.G., professor, doktor tekhnicheskikh nauk; [deceased]; MUROMOV, V.S., kandidat tekhnicheskikh nauk, dotsent, redaktor; SAFONOV, P.V., redaktor; MEDVEDEV, L.Ya., tekhnicheskij redaktor.

[Hydraulics] Gidravlika. Izd.2-oe, 1spr. i dop. Moskva, Gos. izd-vo lit-ry po stroit. i arkhitekture, 1956. 408 p. (MLRA 9:6)
(Hydraulics)

"APPROVED FOR RELEASE: 06/20/2000

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APPROVED FOR RELEASE: 06/20/2000

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...herent radiation was observed at ...
measurements were made of the cyclotron resonance absorption signals at the different
values of the electric field, of the dependence of the relative width and intensity
of the cyclotron-resonance line on the static electric field, and of the dependence
of the relative width of the line on the concentration of the carriers for the case

L 21228-66 EWT(m)/EWP(t) IJP(c) JD/HW

ACC NR: AP6003801

SOURCE CODE: UR/0181/66/008/001/0249/0251

AUTHORS: Kichigin, D. A.; Lobachev, V. P.

ORG: Institute of Radiophysics and Electronics AN UkrSSR
Khar'kov (Institut radiofiziki i elektroniki AN UkrSSR)

TITLE: Negative conductivity in germanium with nickel impurity 4/9

SOURCE: Fizika tverdogo tela, v. 8, no. 1, 1966, 249-251 28 21 B

TOPIC TAGS: germanium, semiconductor conductivity, volt ampere characteristic, electric resistance, impurity conductivity

ABSTRACT: The purpose of the investigation was to determine some of the causes of negative resistance of doped semiconductors. The authors measured the volt-ampere characteristics of germanium doped with nickel at 77 and 4.2K. The sample was a bar measuring 0.35 x 0.2 x 2.8 mm, in series with which an additional resistor was connected. The voltage drop on the sample and the resistor were displayed on an oscilloscope screen. Depending on the illumination of the sample, on the magnetic field, and on the angle between the field

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ACC NR: AP6003801

and the currents of the sample, the volt-ampere characteristic assumed different forms and exhibited the following features: 1. At fairly high illumination (15 -- 35 relative units), the voltage-ampere characteristics coincide fully for both increasing and decreasing voltage. At low illumination (up to 12 relative units), a hysteresis is observed. 2. With increasing illumination (to more than 50 relative units) the negative-resistance portion of the volt-ampere characteristic disappears. The application of a magnetic field (7 -- 10 kOe) causes the appearance of a double N-shaped characteristic. At low illuminations the influence of the magnetic field on the volt-ampere characteristics is different, and the section with the negative resistance shifts with increasing magnetic field towards larger electric fields, and increases with magnitude. Similar results were obtained at helium temperatures. The nature of the influence of the illumination of the sample on the volt-ampere characteristic and the effect of the magnetic field are still not clear. Orig. art. has: 2 figures.

SUB CODE: 20/ SUBM DATE: 24Jul65/ ORIG REF: 004/ OTH REF: 006

Card 2/2du

LOBACHEV, V.S.

Materials on the biology of the imperial eagle in the northeastern part of the Aral Sea region. Ornitologia no.3:306-314 '60.

(MIRA 14:6)

(Kzyl-Orda Province--Eagles)

LOBACHEV, V.S.

Materials on the biology of the steppe hawk *Buteo rufinus*
Cretschmar in southern Kazakhstan. Nauch. dokh. vys. shkoly;
biol. nauki no. 1:37-43 '61. (MIRA 14:2)

1. Rekomendovana kafedroy zoologii pozvonochnykh Moskovskogo
gosudarstvennogo universiteta im. M.V. Lomonosova.
(KAZAKHSTAN—HAWKS)

LOBACHEV, V.S.

Distribution of penduline titmouse in Western Siberia.
Ornitologia no.6:474 '63. (MIRA 17:6)

SOKOLOVA, S.M.; STAROSTIN, B.A.; SHATALINA, M.S.; KRESHTAPOVA, V.N.;
SKVORTSOV, A.K.; GOLYSHEVA, M.D.; DUNDIN, Yu.K.; PODL'SSKIY, G.I.;
SHKODA, A.M.; DONSKAYA, T.N.; MURTAZANOVA, E.Sh.; LOBACHEV, V.S.;
VORNOV, A.G.; SKOKOVA, N.N.

Brief news. Biul.MOIP.Otd.biol. 70 no.5:130-131 S-0 '65.
(MIRA 18:12)

ACC NR: AP6028894

(A,N)

SOURCE CODE: UR/0325/66/000/003/0050/0055

AUTHOR: Lobachev, V. S.; Besedin, B. D.; Zhubanazarov, I. Zh.

ORG: none

TITLE: Some methods of suppressing rodent mobility and long-term poisoning of their settlement areas

SOURCE: Nauchnyye doklady vysshey shkoly. Biologicheskkiye nauki, no. 3, 1966, 50-55

TOPIC TAGS: disease vector, rodent, rodent control, pest control, gerbil,
PESTICIDE

ABSTRACT: Zinc phosphide (Zn_3P_2) is one of the most commonly used rodent POISONS. Usually, 15-30 g of a bait composed of wheat, oats, 8-20% zinc phosphide and 3-5% oil (percentages by weight) are used to poison one burrow colony. However, this method often produces neither highly effective results nor long-lasting action. Suppression of plague and plague-bearing animals has long been a problem in the Northern Aral region. Since 1958, the Aral Sea Antiplague Station, Moscow University, and the Central Asian Antiplague Institute have made experimental studies of pest extermination in the Aral Kara-Kum. The epizootic cycle must be disrupted for 3-4 yr for effective

Card 1/3

ACC NR: AP6028894

extermination in a plague focus; suppressing the rodent population for 3—5 yr will accomplish this. The authors doubled the poison dose 3—4 times (50—150 g per colony) for long-term suppression of small mammals in epizootic areas and areas with large animal populations. This method had previously been used successfully for mice; it had not, however, been used for larger gerbils. It was found that small piles of wheat treated with zinc phosphide were well preserved and retained toxicity well under a variety of circumstances. In autumn of 1961, an area first treated in 1959 was treated with increased doses of poison (150 g of a wheat-oats-15% zinc phosphide mixture). Similar control areas were treated with the usual dosage (20—30 g). Table 1 clearly shows the greater effectiveness of the increased dose. It has been established that gerbil mortality is directly proportional to the amount of bait and zinc phosphide concentration. However, dosages did not generally exceed 20 g per burrow colony. The authors' experiments in the Northern Aral territory showed such doses (20—30 g) to be unsatisfactory; however, it is pointed out that such increased doses are not always necessary: in places where the bait is quickly covered by sand, where preservative conditions are good, and where no previous treatment has been applied. Good results were obtained from the introduction of bait in a variety of packagings into the gerbil burrows and storage rooms. Radioisotopes were used to

Card 2/3

ACC NR: AP6028894

study the movement of gerbils and their ectoparasitic fleas after extermination, and their most common migratory patterns are mentioned. Lethal areas for rodents are most effective:

- 1) on their main migration routes (railroads and dirt roads;
- 2) in potentially epizootic areas, as determined by bacteriological, serological, and ecological methods; 3) in areas with concentrations of rodents, or where rodents have extensive contact with other animal carriers. The authors are particularly interested in methods of scattering poison in rodent burrows and storage areas; these require simple equipment, and act on both rodents and their ectoparasites. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 26Mar65/ ORIG REF: 011/

Card 3/3

ACC NR: AP6028894

(A,N)

SOURCE CODE: UR/0325/66/000/003/0050/0055

AUTHOR: Lobachev, V. S.; Besedin, B. D.; Zhubanazarov, I. Zh.

ORG: none

TITLE: Some methods of suppressing rodent mobility and long-term poisoning of their settlement areas

SOURCE: Nauchnyye doklady vysshey shkoly. Biologicheskiye nauki, no. 3, 1966, 50-55

TOPIC TAGS: disease vector, rodent, rodent control, pest control, gerbil,

PESTICIDE

ABSTRACT: Zinc phosphide (Zn_3P_2) is one of the most commonly used rodent POISONS. Usually, 15-30 g of a bait composed of wheat, oats, 8-20% zinc phosphide and 3-5% oil (percentages by weight) are used to poison one burrow colony. However, this method often produces neither highly effective results nor long-lasting action. Suppression of plague and plague-bearing animals has long been a problem in the Northern Aral region. Since 1958, the Aral Sea Antiplague Station, Moscow University, and the Central Asian Antiplague Institute have made experimental studies of pest extermination in the Aral Kara-Kum. The epizootic cycle must be disrupted for 3-4 yr for effective

Card 1/3

ACC NR: AP6028894

extermination in a plague focus; suppressing the rodent population for 3—5 yr will accomplish this. The authors doubled the poison dose 3—4 times (50—150 g per colony) for long-term suppression of small mammals in epizootic areas and areas with large animal populations. This method had previously been used successfully for mice; it had not, however, been used for larger gerbils. It was found that small piles of wheat treated with zinc phosphide were well preserved and retained toxicity well under a variety of circumstances. In autumn of 1961, an area first treated in 1959 was treated with increased doses of poison (150 g of a wheat-oats-15% zinc phosphide mixture). Similar control areas were treated with the usual dosage (20—30 g). Table 1 clearly shows the greater effectiveness of the increased dose. It has been established that gerbil mortality is directly proportional to the amount of bait and zinc phosphide concentration. However, dosages did not generally exceed 20 g per burrow colony. The authors' experiments in the Northern Aral territory showed such doses (20—30 g) to be unsatisfactory; however, it is pointed out that such increased doses are not always necessary: in places where the bait is quickly covered by sand, where preservative conditions are good, and where no previous treatment has been applied. Good results were obtained from the introduction of bait in a variety of packagings into the gerbil burrows and storage rooms. Radioisotopes were used to

Card 2/3

ACC NR: AP6028894

study the movement of gerbils and their ectoparasitic fleas after extermination, and their most common migratory patterns are mentioned. Lethal areas for rodents are most effective: 1) on their main migration routes (railroads and dirt roads; 2) in potentially epizootic areas, as determined by bacteriological, serological, and ecological methods; 3) in areas with concentrations of rodents, or where rodents have extensive contact with other animal carriers. The authors are particularly interested in methods of scattering poison in rodent burrows and storage areas; these require simple equipment, and act on both rodents and their ectoparasites. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: 26Mar65/ ORIG REF: 011/

Card 3/3

L 3803-66 EWT(1)/ENT(m)/EPF(c)/T/EPF(t)/EWP(b)/EWA(h) IJP(c) JD/AT

ACCESSION NR: AP5025582

UR/0115/65/000/009/0022/0024
681.2.083:621.315.592.081.7

40
37
22

AUTHOR: Astakhov, O. P.; Lobankov, V. V.

44.55
14.55

TITLE: A method for measuring the thermoelectric characteristics of semiconductors in the solid and liquid phases at high temperatures

2144

SOURCE: Izmeritel'naya tekhnika, no. 9, 1965, 22-24

TOPIC TAGS: semiconducting material, semiconductor research, thermoelectromotive force

ABSTRACT: The authors propose an improved device for studying the thermoelectric properties of materials in the liquid phase. A schematic cross section of the device is shown in fig. 1 of the Enclosure. The unit is a rectangular high-temperature vacuum furnace with dimensions of 240 x 240 x 600 mm. The housing 1 is of welded stainless steel construction. On the bottom of the furnace 2 are 12 electrical leads 3 for bringing power to the heaters. The air is pumped out of the chamber through fitting 4 and the furnace is filled with a neutral gas through this same fitting. Running water is used for cooling the installation. The main heater 6 is a quartz tube with an inside diameter of 50 mm covered with a bifilar-wound coil

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L 3803-66

ACCESSION NR: AP5025582

of Kh25Yu5 alloy or molybdenum wire. The winding covers a length of 300 mm. The substance to be studied is placed in a special vessel 100 mm long which is then put into the central section of the heater. Molybdenum sleeves are submerged in the substance being studied through a ceramic plate along the edge of the vessel. The surfaces of these sleeves (excepting the end) are coated with a thin layer of aluminum. A calibrated thermocouple junction is welded to the bottom of each sleeve. There are two additional bifilar heaters at the ends of the vessel for producing the necessary temperature gradient. Provision is made for continuous control of heating conditions. A semiautomatic potentiometer is used for measuring the electromotive force between the thermocouples and the semiconductor material. This installation may be used for measuring the thermoelectric characteristics of semiconductors in the solid and liquid phases up to 1500°C. It is found that the vessels for studying the semiconductor material should be made of quartz or especially pure aluminum oxide. Orig. art. has: 3 figures.

ASSOCIATION: none

SUBMITTED: 00

NO REF SOV: 002

ENCL: 01

OTHER: 000

SUB CODE: 55, EM

Card 2/3

L 3803-66

ACCESSION NR: AP5025582

ENCLOSURE: 01

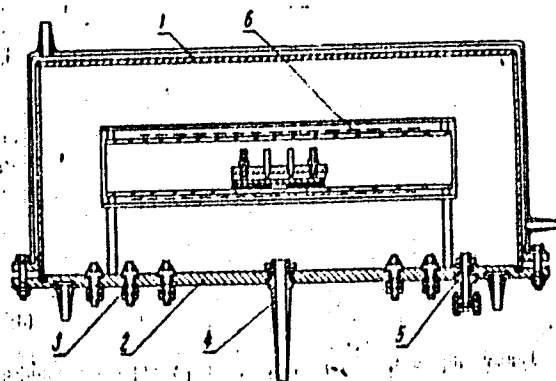


Fig. 1.

PC
Card 3/3

LOBACHEV, Yu.A., inzh.-ekonomist

Potentials for the lowering of the costs of operation in the transport
of lumber freight. Zhel. dor. transp. 47 no.8:69-72 Ag '65. (MIRA 18:9)

LOBACHEV, Yu.S.

Occurrence of the brambling *Pyrrhospiza punicea* Hodgs. in
the Talas Alatau (western Tien Shan). Trudy Inst. zool.
AN Kazakh. SSR 24:213-215 '64.

(MIRA 17:12)

LOBACHEV, Yu.S.

New places of occurrence of the Tien Shan birch mouse and forest
dormouse. Trudy Inst. zool. AN Kazakh. SSR. 23:216-217 '64.
(MIRA 17:11)

KAPITONOV, V.I.; LOBACHEV, Yu.S.

Ecological observations on the marmot *Marmota menzbieri* Kaschk. in
the Korzhintau Mountains (western Tien Shan). Zool. zhur. 43 no.8:
1211-1220 '64. (MIRA 17:11)

1. Institut zoologii AN KazSSR, Alma-Ata.

LOBACHEV, Petr Vladimirovich, kand. tekhn. nauk; LOBACHEV, Yevgeniy
Leonidovich, inzh.; MUSKAT, L.V., inzh., nauchn. red.;
BYSTROVSKAYA, N.A., red.izd-va; SHERSTNEVA, N.V., tekhn.red.

[Study of materials used in sanitary engineering] Materialo-
vedenie po sanitarnoi tekhnike. Moskva, Gosstroizdat, 1963.
187 p. (MIRA 16:10)
(Sanitary engineering--Equipment and supplies)

GUSEV, Yu. (Moskva); LOBACHEV Yu. (Kaluga); MOVCHIKOV, N. (Tambov); BERMES, N. (Baku); KUCHIS, Ye. (Vil'nyus); LAMEKIN, V. (Riga); NOGIN, S. (Sevastopol'); UL'YANENKO, N. (Murmanskaya obl.); ZEL'DIN, Ye. (Leningrad); CHIBIRYACHKO, V. (Severomorsk); SIMONOV, V. (Orel); ZHBANOV, Ye. (Ivanovo); VOTLOKHIN, B. (Groznyy); MAKASHEV, M. (Leningrad); MAMEDOV, V. (Balashov); GORDOV, V. (Yevpatoriya); LYAMETS, V. (Severodonetsk).

Exchange of experience. Radio no. 3: 3, 37, 44, 51, 53, 54, 55, 56, 58, 61
Mr'64 (MIRA 17:7)

LOBACHEVA, L. L.

"Biological Estimation of the Contamination of Water Reservoirs by Mineral Salts." Cand Biol Sci, Belorussian State U imeni Lenin, 16 Nov 54.
(SB, 6 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

L O B A C H E V A , L . L .

USSR/General Biology - General Hydrobiology

B-6

Abs Jour : Ref Zhur - Biol., No 3, 1958, No 9601

Author : Lobacheva, L.L.

Inst : Not Given

Title : On the Effect of Dichlorethane and Chlorbenzene on Water Organisms.

Orig Pub : Rybn. kh-vo, 1957, No 7, 71-74

Abstract : It was experimentally shown that concentrations of dichlorethane (DCE) of 0.1 mg/l in closed vessels and 2 mg/l in open vessels, and also a concentration of chlorbenzene (CB) of 0.5 mg/l, are harmless to *Daphnia magna*. To oligochaets (*Limnodrilus hoffmeisteri* and *Tubifex tubifex*) and chironomide larvae (*gr. Stictochironomus*), concentrations of 10 mg/l of both DCE and CB are harmless. The ordinary water microflora tolerated 25 mg/l DCE and a concentration of 10 mg/l of CB. Bacterial nitrogen fixers tolerate a concentration of DCE 0.5 mg/l and CB 25 mg/l. The deduction is made that permissible

Card : 1/2

USCOMM-DC-55,040

LOBACHEVA, N. B.

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31841

Author : Kashirskiy V. G., Petelina V.S., Lobacheva N.B.

Title : Thermal Decomposition of Pulverulent Shale in a
Current of Steam

Orig Pub: Sb.: Goryuchiye slantsy. Khimiya i tekhnologiya,
No 2. Tallin, Est. gos. izd-vo, 1956, 77-82

Abstract: Laboratory experiments were carried out on ther-
mal decomposition of pulverulent shale, from
different deposits, in a current of superheated
steam; the experiments were conducted in a

Card 1/4

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31841

horizontal tube 10 mm in diameter, into which was continuously fed, from a mixing chamber, a mixture of shale dust and superheated steam. Experimental conditions: shale dust input 11-12 g/minute, steam input 6 g/minute, temperature of superheated steam, before entering the mixing chamber, 450-500°, temperature of outside wall of the tube 1050-1100°, duration of stay within the tube 0.35-0.4 seconds, temperature of the current on leaving the tube 650-700°. It is shown that gases of similar composition are ob-

Card 2/4

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31841

tained on subjecting to this treatment shale from the Baltic, Obshchesyrtovskoye and Volga deposits, which indicates a limited occurrence of secondary processes of decomposition of organic matter of the shale. Yield of gas 236-368 n-liter/kg with Q_n 3600-4460 kcal/n-m³. It was ascertained that up to 40% of the initial S of the shale are converted to H₂S. Heating value of the resulting coke residue 1078-2046 kcal/kg, which shows the possibility of burning it, in the powder form, in the combustion chamber of

Card 3/4

USSR /Chemical Technology. Chemical Products
and Their Application

I-15

Treatment of solid mineral fuels

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 31841

boilers. The method is evaluated as promising,
for the production of high-caloric gas from pul-
verulent shale.

Card 4/4

KASHIRSKIY, V.S.; PETELINA, V.S.; LOBACHEVA, N.B.; YAKOREVA, A.R.

Thermal decomposition of powdered brown coal from Aleksandriya
deposits in a steam flow. Ukr.khim.shur. 22 no.2:253-258 '56.
(MLBA 9:8)

1. Saratovskiy gosudarstvennyy universitet imeni N.G. Chernyshev-
skogo.

(Aleksandriya--Lignite)

KASHIRSKIY, V.G.; PETELINA, V.S.; LOBACHEVA, N.B.

Thermal decomposition of powdered Volga shale in a steam flow.
Zhur.prikl.khim. 29 no.5:755-759 My '56. (MLRA 9:8)

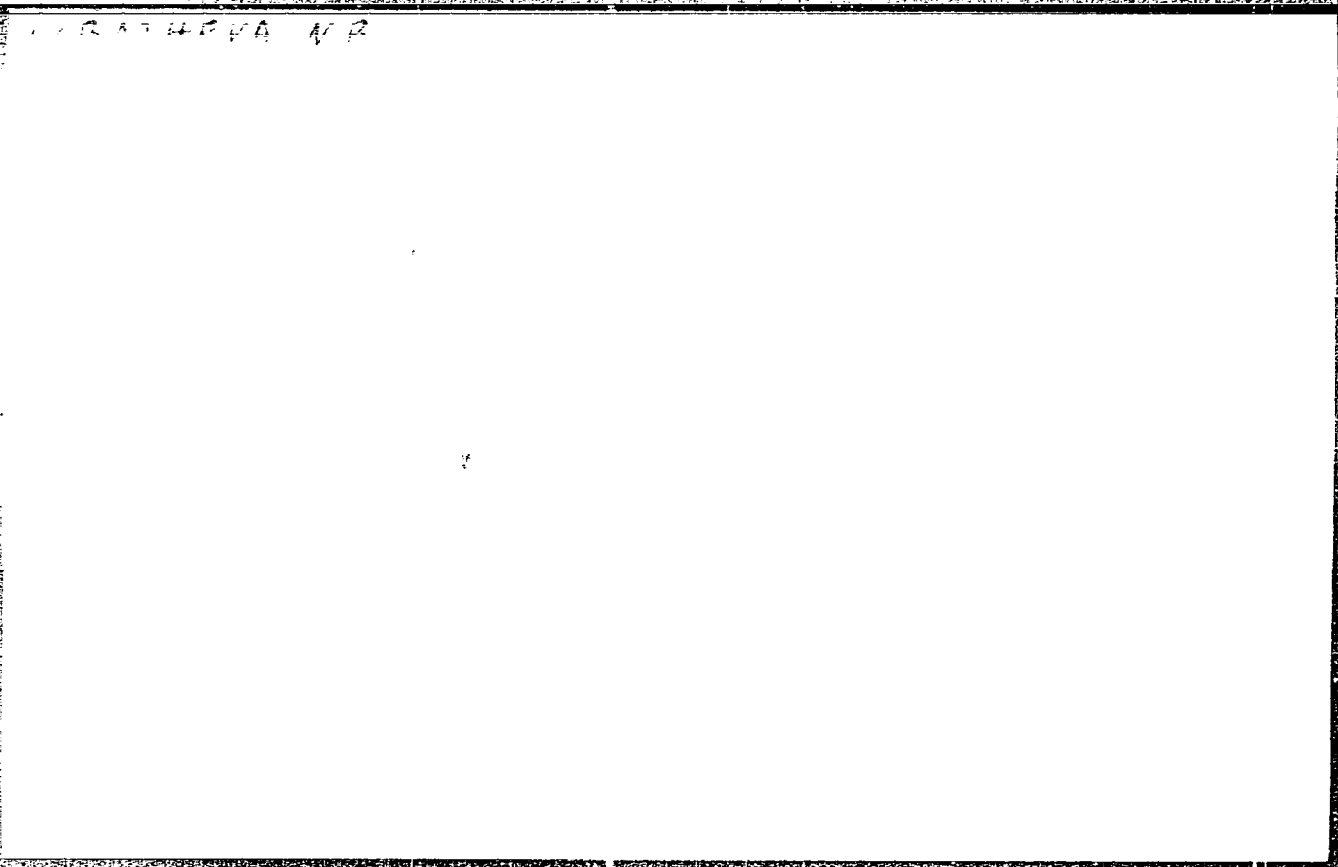
1. Institut khimii Saratovskogo gosudarstvennogo universiteta.
(Volga Valley--Oil shales)

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CIA-RDP86-00513R000930320003-1"



LOBACHEVA, N. B.

Cand Chem Sci - (diss) "Study in the field of genesis of petroleum paraffin. (Thermocatalytic changes of solid petroleum hydrocarbons over gumbrin /Cenomanian bleaching clay from Georgia, USSR/)." /Saratov/, 1961. 19 pp; (Saratov Order of Labor Red Banner State Univ imeni N. G. Chernyshevskiy); 175 copies; free; (KL, 10-61 sup, 207)

KASHIRSKIY, V.G.; LOBACHEVA, N.B.

Antioxidant from hydrolytic lignin. Gidroliz. i lesokhim. proc.
14 no. 1:8 '61. (MIRA 14:1)

1. Saratovskiy politekhnicheskii institut.
(Antioxidants) (Lignin)

KASHIRSKIY, V.G.; LOBACHEVA, N.B.

Separation and investigation of humic acids from Obshchiy Syrt shales. Uch.zap. SGU 75:25-27 '62.

Qualitative characteristics of oil shales of the Ozinki deposits. Ibid.:29-32 (MIRA 17:3)

KASHIRSKIY, V.G.; LOBACHEVA, N.B.; YAKOREVA, A.R.

Thermal decomposition of Savelyevka pulverized oil shale in a
spray of steam. Uch.zap. SGU 75:27-29 '62. (MIRA 17:3)

BORZOVA, L.D.; DODONOV, Ya.Ya.; KOLCSOVA, V.S.; LOBACHEVA, N.B.

Characteristics of the oil shales of the Khvalynsk deposit. Energotekh.
ispol'.topl.no.3:212-214 '63.

(MIRA 16:5)

(Khvalynsk District--Oil shales)

KASHIRSKIY, V.G. (Saratov); LOBACHEVA, N.B. (Saratov)

Pyrolysis of pulverized peat with partial gas recirculation.
Izv. AN SSSR. Otd. tekhn. nauk. Energ. i transp. no.3:381-
385 My-Je '63. (MIRA 16:8)

KASHIRSKIY, V.G.; LOBACHEVA, N.B.

Production of aromatic hydrocarbons by pyrolysis of Kansk-Achinsk
coals. Zhur. prikl. khim. 38 no.7:1592-1595 J1 '65. (MIRA 18:7)

LOBACHEVA, N.K., inzh.

Determining the oscillation amplitude of the balance of a bound escapement. Nauch.dokl.vys.shkoly; mash.i prib. no.2:183-189 '58. (MIRA 12:10)

1. Predstavleno kafedroy "Pribory tochnoy mekhaniki" Moskovskogo vysshogo tekhnicheskogo uchilishcha im. Baubana.
(Clocks and watches--Escapements)

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28(0); 10(2); 25(2)

Moscow. Vyssheye tekhnicheskoye uchilishche imeni N. E. Baumana
Mekhanika; sbornik statey (Mechanics; Collection of Articles) Moscow, Oborongiz,
1959. 119 p. (Series: Its: Trudy vyp. 92) 3,400 copies printed.
Errata slip inserted.

Ed. (Title page): V. V. Dobronravov, Doctor of Physical and Mathematical
Sciences, Professor; Ed. (Inside book): Ye. V. Latynin, Engineer;
Ed. of Publishing House: L. I. Sheynfayn; Tech. Ed.: V. P. Rozhin;
Managing Ed.: A. S. Zaymovskaya, Engineer.

PURPOSE: This book is intended for scientific and research personnel, engineers,
and students of advanced courses at instrument-making and machine design vuzes.

COVERAGE: This volume deals with problems frequently encountered in modern
instrument making and in designing specialized machines and includes general
theory of automatic control, vibrations, theoretical and applied gyroscopy,
stability of motion, etc. Abstracts of the individual articles are given
in the Table of Contents.

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Preface V. V. Dobronravov 3

Astaf'yev, V. V. Assistant . A More Accurate Consideration of the Effect of the Motion of the Stationary Point of a Gyroscope on the Character of the Motion of the Gyroscope 5

The author discusses kinematic relationships, dynamic relationships, various cases of motion of the vehicle, and neglect of the quantity

$\frac{v_E}{R} \tan \psi$. He increases the accuracy of the classical results

obtained by B. V. Bulgakov, an outstanding Soviet gyroscopist, and which pertain to an investigation of the effect of the accelerations of an aircraft on the motion of a gyro pendulum as the basic element of some gyro instruments. In setting up the equations of motion of the gyro pendulum, the author takes into account the nonlinear terms

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previously neglected, and a more exact map of the operation of the gyro pendulum emerges. The results obtained will unconditionally be useful in producing gyroscopes, the operating-accuracy requirements for which are increasing all the time. References:1 Soviet.

Orekhov, P. V. [Candidate of Technical Sciences, Docent]. Derivation of a Formula for the Gyroscopic Moment With the Aid of Coriolis' Dynamical Theorem

24

This article shows the derivation of the formula for the gyroscopic moment with the aid of Coriolis' theorem. The gyroscopic effect is encountered in many fields of instrument making and machine design so that a descriptive explanation of this phenomenon is very practical.

Shigin, Ye. K. [Research Fellow]. Nonlinear Automatic Control Systems With an Element Having Δ - type Characteristics

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This paper develops a new control method using non-linear systems of a special form and having particular characteristics called Delta-characteristics. The method permits a considerable improvement of the transient process, reducing the amount of overshoot and the time

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of the transient process. The concepts of the author may be useful particularly for obtaining desirable conditions in rapidly changing processes and phenomena. References: 5 Soviet.

Lobacheva, N. K. [Assistant]. Use of Galerkin's Method for Finding a Periodic Solution of the Differential Equations of Nonlinear Oscillations
This paper analyzes some peculiarities of modern methods for the study of nonlinear oscillations observed in various fields of instrument making. References: 5 Soviet, 2 translations from English. 49

Golenko, K. A. [Junior Scientist]. Flow of a Viscous Incompressible Fluid in a Rotating Cylinder
This paper presents an analytical study of the flow of a viscous fluid in a rotating cylindrical tube. The solution assumes the tube to be infinitely long and permits taking into account known angular accelerations of the tube. The solution has application to such practical problems as the supply of lubricant in piston engines and the cooling of turbine rotors. The analysis is also applicable to the inverse problem, that is, the effect of the internal motion of the fluid on the motion of the cylindrical body. References: 2 Soviet, 1 translation from English. 59

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Zamuruyev, G. I. [Assistant]. On a Method of Determining the Stability Criterion for the Operation of Liquid-Fuel Rocket Engines

66

This paper investigates a timely problem in modern rocket technology, namely, the problem of harmful fluctuations of pressures in the chamber of a liquid-fuel rocket engine occurring during the combustion process. The author investigates the entire hydraulic circuit supplying fuel to the combustion chamber and determines the parameters required for stability of the process. References: 2 Soviet, 1 translation into Russian.

Zakharov, Yu. Ye. [Research Fellow]. Determination of the Axial Hydrodynamic Force on the Valves of Hydraulic Servomechanisms

85

This report considers the processes taking place inside the valves of hydraulic servomechanisms. The phenomena associated with the flow of a viscous fluid inside a complex geometrical configuration with specific boundary conditions are of great importance in the investigation of the entire hydraulic servomechanism and, consequently, in setting up the equations of motion of the whole automatic-control system. References: 2 Soviet and 1 English.

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Litvin-Sedoy, M. Z. [Candidate of Physical and Mathematical Sciences, Senior Scientist in the Department of Applied Mechanics at the Moscow State University]. Determining Angular Orientation of a Body With Gyroscope Pickoffs When Arbitrary Distribution of the Axes of Their Cases Exists in a Body Moving in Three Dimensions 100
 This paper presents results of use for a more rational calculation of multigyroscope systems. References: 5 Soviet, 1 English, and 1 translation from English.

Tarnovskaya, M. P. [Assistant]. Determination of the Minimum Dimensions of a Cam Gear With a Rotating Cam and a Pivoted Feeler 108

Tarnovskaya, M. P. [Assistant]. Calculation of the Optimum Profile of the Cam of a Cam Gear With a Rotating Cam and a Feeler With Translational Motion 114
 These two reports contain original results of the author in the search for optimum cam gears (in the sense of minimum dimensions and some other requirements) for use in special machines.

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D237/D304

AUTHOR: Lobacheva, N.K., Assistant

TITLE: Determining the period of oscillations of the balance of a restricted escape regulator

SOURCE: Moscow. Vyssheye tekhnicheskoye uchilishche. [Trudy], no. 104, 1961. Mekhanika, 143 - 151

TEXT: The restricted escape regulator consists of the oscillating system balance-spring, coupled to a gear. The period of oscillations of the balance is one of the main characteristics of the regulator; the author, considering the latter as a self-oscillating system, investigates a steady periodic motion of the balance with a stationary amplitude and obtains its differential equation of motion. This is solved approximately by expanding intermediate functions into a Fourier series and the expression for the period T is obtained. The author infers that the period of oscillations of the balance is fully and uniquely determined by the parameters of the regulator and depends on the amplitude of the oscillations (oscillations)

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Determining the period of ...

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of the balance are non-isochronic). There are 8 figures and 5 Soviet-bloc references.

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USSR/Pharmacology - Toxicology - Chelating Agents.

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Abs Jour : Ref Zhur Biol., No 4, 1959, 18645

Author : Poyemnyy, F.A., Lobacheva, N.S.

Inst : Gorkiy Medical Institute

Title : The Treatment of Neuralgia of the Trigeminal Nerve with Massive Doses of Vitamin B₁₂

Orig Pub : Tr. Kliniki nervn. bolezney, Gor'kovsk. med. in-t, 1958, vyp. 1, 5-9

Abstract : 12 patients with neuralgia of the trigeminal nerve were treated with vitamin B₁₂ (1000 gamma daily each intramuscularly, 10-15 injections per course). Positive results were noted in 11 patients; clinical cure in 5 of them and improvement of various degree in the others. B₁₂ quickly decreases the intensity of pains. The mechanism of its action is connected with the restoration of

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Abs Jour : Ref Zhur Biol., No 4, 1959, 18645

the process of metabolism in the nerve cells.

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KASHIRSKIY, V.G. (Saratov); LOMACHEVA, N.V. (Saratov)

Pyrolysis of sapropelite from the Moscow Region. Izv. AN SSSR. Otd.
tekh. nauk. Energ. i transp. no.1:96-100 Ja-F '63. (MIRA 16'5)
(Coal gasification)