

KAMENIK , Vladimir

"Polyester glass laminates" by Antonin Sternschuss, Vladimir Zvonar,
Otakar Slezak and Miroslav Kucera. Reviewed by Vladimir Kamenik.
Chem prum 12 no.12:679 D '62.

1. Vyzkumny ustav makromolekularni chemie.

KAMENIK, Vladimir

Some problems of the technical press. Chem prám 13 no. 12:
646-647 D '63.

1. Vyzkumny ustav makromolekulární chemie, Brno.

KAMENIK, Vladimir

Tenth Conference of Chemical Engineering, Mechanical
Engineering and Automation in Mariánské Lázně. Chem prum
14 no.1:48-49 Ja'64.

1. Vyskumny ustav makromolekulární chemie, Brno.

KAMENIK, Vladimir

An account of the 11th Conference on Chemical Engineering,
Machinery and Automation in Marianske Lazne. Chem prum 15
no.2:115-116 F '65.

1. Research Institute of Macromolecular Chemistry, Brno.

KAMENIKHIN, N.T.

Formation of subdrift ice in Verkhne-Kolymsk District. Sov.gel.4
no.118-119 Je '61. (MIRA 14:6)

1. Sangatolonskaya geolbgarazvedochnaya partiya.
(Verkhne-Kolymsk District—Glaciological research)

VYSKOCIL, J.; BERKA, I.; KRITCKA, J.; za technicke spoluprace
J. Hinstove a J. Kamenikove.

Fatal trichloroethylene poisoning following peroral intake.
Pracovni lek. 8 no.2:205-207 June 56.

1. Z Odd. chorob z povolani Fakultni nemocnice v Brne, prednosta
doc. Dr. K. Kadlec.

(TRICHLOROETHYLENE, poisoning,
fatal, after peroral intake (Cz))

(POISONING,
trichloroethylene, fatal after peroral intake (Cz))

KAMENIKOV, J.

KADLEC, Karel; VYSKOCIL, Jiri; KAMENIKOV, J.

Diagnostic importance of complexon (CaNa₂, EDTA) in lead poisoning.
Pracovní lek. 9 no.2:134-137 Apr 57.

1. Odd. pro choroby z povolání fakultní nemocnice v Brně, přednosta
doc. MUDr. K. Kadlec Laborator odd. hygieny práce KHES Brno. vedoucí
Dr. I. Berka.

(EDATHAMIL,

calcium disodium in diag. of lead pois. (Cz))

(LEAD POISONING, DIAG.

calcium disodium edathamil (Cz))

KAMENIKOVA, SAR

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application.
Safety Engineering. Sanitary Engineering. H-6

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 15023

Author : Berka I., Blazkova Mil., Kamenikova Jar., Klhufkova E.

Inst :

Title : Hygienic Characteristics of Carborundum Production. I.

Orig Pub: Pracovni lekar., 1957, 9, No 3, 187-190.

Abstract: On investigation of carborundum production the air in the operation buildings showed the following conditions: high dust content consisting of silica sand ($5.6-255.8 \text{ mg/m}^3$, contains 99% free SiO_2), presence of CO (average 145-360 γ/liter), SO_2 35 γ/liter , H_2S , high temperature of the air near the furnaces 38-55°. With a CO concentration, in the air of the shops, of 115-205 γ/liter , the carboxy-hemoglobin content in the blood is increased to 4% in all the workers. On production of green SiC the Co

Card : 1/2

KAMENIR, G., kapitan

When the systematic verification of the execution of assignments is lacking. Komm. Vooruzh. Sil 1 no.1:65-67 O '60.

(MIRA 14:7)

1. Chlen Kommunisticheskoy partii Sovetskogo Soyuza.
(Russia--Army--Political activity)

S/121/60/000/006/001/008

18.5200

AUTHORS: Kamenir, Ya. A., Rapoport, G. N.

TITLE: Hydraelectric Two-Coordinate Tracer Drive for Profile Copying

PERIODICAL: Stanki i Instrument, 1960, No. 6, pp. 1-4

TEXT: The authors point out that machine parts of complex configuration are to an increasing extent tooled on copying milling machines, equipped with two-coordinate hydraulic or electric tracer systems. However, these machines showed a number of deficiencies resulting from the application of either purely hydraulic or purely electric drives. Therefore the authors developed a tracer drive system in which the advantages of electronics in the measuring and control sections are combined with those of the hydraulic drive, being less inert, in the power section of the machine. This combination makes it possible to obtain higher feed speeds (up to 1,200 mm/min) in the tracing system of copying machine tools compared to those of machines with either hydraulic or electric drive, under consideration of the errors permissible in copying practice (± 0.1 mm). In this system copying errors do not depend on the magnitude of feed speed for each of the coordinates, but only on the curvature of the profile to be machined. If

Card 1/2

S/121/60/000/006/001/008

Hydraelectric Two-Coordinate Tracer Drive for Profile Copying

hydraulic drives with adjustable pump discharge are used which possess a more rigid mechanical characteristic, are less sensitive against overcharging and ensure a higher efficiency than hydraulic drives with throttle regulation, it is possible to equip heavy duty machine tools of great feeds with the suggested tracer drive. There are 5 diagrams and 2 block-diagrams. ix

Card 2/2

DEMENT'YEV, V.I., kand. tekhn. nauk; OGRINCHUK, A.N., kand. tekhn. nauk;
TEREKHOV, G.A., dots.; SHLYAPNIKOV, A.I., dots.; SHUVALOV, Yu.A.,
kand. tekhn. nauk; KAMENIR, Ya.A., kand. tekhn. nauk, retsenzent;
PANTELEYEV, V.V., inzh., retsenzent; BAZHENOV, D.V., red. izd-
va; UVAROVA, A.F., tekhn. red.

[Means for the automation of machining processes; manual] Sred-
stva avtomatizatsii mekhanicheskoi obrabotki; spravochnoe po-
sobie. Moskva, Mashgiz, 1962. 520 p. (MIRA 15:3)
(Metallcutting) (Automation)

ZAYCHENKO, I.Z.; MYSHLEVSKIY, L.M.; KAMENIR, Ya.A., kand. tekhn.
nauk, retsenzent; LESHCHENKO, V.A., kand. tekhn. nauk,
red.

[Rotary pumps and hydraulic engines] Lopastnye nasosy i
gidromotory. Moskva, Izd-vo "Mashinostroenie," 1964. 211 p.
(MIRA 17:4)

KAMENIR-BYCHKOV, G.A.

Role of moisture and physical properties of soils in the process
of developing Takyr soils in desert waste lands. Nauch. trudy
Tash GU no.204:173-190 '62. (MIRA 17:9)

SLAVIN, S.V., doktor ekonom.nauk; GRANIK, G.I., kand.ekonom.nauk; KUZAKOV, K.G., kand.ekonom.nauk; MIKHAYLOV, S.V., kand.ekonom.nauk; SHAPALIN, B.F., kand.geograf.nauk; KAMENITSKY, L.S., nauchnyy sotrudnik; MOSKVIN, D.D., nauchnyy sotrudnik; TYURDENEV, A.P., nauchnyy sotrudnik; LEIDENISOVA, N.A., inzh.; KOZLOV, B.K., kand.tekhn.nauk, starshiy nauchnyy sotrudnik; BRONSHTEYN, L.B., starshiy nauchnyy sotrudnik; BOVKUN, A.Ye.; VERSHININ, A.A., okhotoved; SERGEYEV, M.A., retsenzent; AGHANAT, G.A., kand.geograf.nauk, red.; PUZANOVA, V.F., kand.geograf.nauk; SHENKMAN, V.I., red.izd-va; BRUZGUL', V.V., tekhn.red.

[Problems in the development of the productive forces of Kamchatka Province] Problemy razvitiya proizvoditel'nykh sil Kamchatskoi oblasti. Moskva, 1960. 420 p. (MIRA 13:7)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil. Sektor prirodnykh resursov i ekonomiki Severa. 2. Zaveduyushchiy Sektor prirodnykh resursov i ekonomiki Severa Soveta po izucheniyu proizvoditel'nykh sil AN SSSR (for Slavin). 3. Institut energetiki AN SSSR (for Kozlov). 4. Tikhookeanskiy rybnyy institut (TINRO) (for BronshTEYN). 5. Starshiy ekonomist Kamchatskogo oblplana (for Bovkun). 6. Kamchatskoye otdeleniye Vsesoyuznogo nauchno-issledovatel'skogo instituta zhiyotnogo syr'ya i pushniny (for Vershinin).

(Kamchatka Province--Economic conditions)

SLAVIN, S.V., doktor ekon. nauk; GRANIK, G.I., kand. ekon. nauk; LOGINOV, V.P.; MIKHAYLOV, S.V.; SHAPALIN, B.F., kand. geogr. nauk; AVAKYAN, M.I., nauchnyy sotr.; ZAKHAROV, G.A., nauchnyy sotr.; KAMENITSER, L.S., nauchnyy sotr.; TITOVA, N.I., nauchnyy sotr.; TYURDENEV, A.P., nauchnyy sotr.; CHUGUNOV, B.I., starshiy nauchnyy sotr.; KOGAN, I.L.; MESHKOVSKAYA, L.V., starshiy inzh.; LUKIN, I.I.; FAYERSHTEYN, R.I.; Prinimali uchastiye: Agranat, G.A., kand. geogr. nauk, red.; PUZANOVA, V.F., kand. geogr. nauk, red.; KUPRIYANOV, A.B., nauchnyy sotr., red.; SOBOLEV, Yu.A., red. izd-va; TIKHOMIROVA, S.G., tekhn. red.

[Problems in developing the productive forces of Magadan Province]
Problemy razvitiia proizvoditel'nykh sil Magadanskoi oblasti. Moskva, Izd-vo Akad. nauk SSSR, 1961. 301 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Sovet po izucheniyu proizvoditel'nykh sil.
 2. Glavnyye inzhenera proyekta "Dal'stroyproyekt" (for Kogan, Fayershteyn).
 3. Institut ekonomiki Akademii nauk SSSR (for Chugunov).
 4. Energoupravleniye Magadanskogo Soveta narodnogo khozyaystva (for Meshkovskaya).
 5. Nachal'nik Oblastnogo otdela po delam stroitel'stva i arkhitektury Magadanskoy oblasti (for Lukin).
- (Magadan Province—Industries) (Magadan Province—Economic policy)

KAMENITSER, S.

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SO: Letopis', No. 33, 1949

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Pod red. S.E.Kamenitsera. [Moskva, Gospolitizdat] 1952. 287 p.
(Industrial management) (MLRA 7:11)

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[Organisation and planning in enterprises of the fishing industry] Organizatsiia i planirovanie predpriatii rybnoi promyshlennosti. Moskva, Fishchepromizdat, 1953. 283 p.
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Economics

Subject and content of the science of economics and the organization of socialist industrial enterprises, Vop. ekon. No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

KAMENITSER, S. Ye.

[Management of the state industrial enterprises in the U.S.S.R.]
Upravlenie gosudarstvennymi promyshlennymi predpriatiiami v
SSSR. Moskva, Znanie, 1955. 47 p. (Vsesoiuznoe obshchestvo po
rasprostraneniui politicheskikh i nauchnykh znani. Ser.2, no.50)
(Industrial management) (MLRA 9:4)

KAMENITSER, Solomon Yefremovich; PODGORNOVA, V., redaktor; TROYANOVSKAYA, N.,
tekhnicheskii redaktor

[Potentials for increasing work productivity in industrial enterprises; methods of finding and ways of using resources] Rezervy rosta proizvoditel'nosti truda na promyshlennykh predpriyatiyakh; metody vyivleniya i puti ispol'zovaniya rezervov. Moskva, Gos. izd-vo polit. lit-ry, 1955. 230 p. (MLRA 9:2)
(Efficiency, Industrial)

DONSKOV, Vasilii Yefimovich; SHVARTS, V.M., kandidat ekonomicheskikh nauk, retsennent; KAMENITSKIY, S.Ye., kandidat ekonomicheskikh nauk, nauchnyy redaktor; MASLOVA, Ye.F., redaktor; CHEKYSHEVA, Ye.A., tekhnicheskiiy redaktor

[Potentials for an increase in labor productivity in the food industry] Rezervy rosta proizvoditel'nosti truda v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1956. 147 p. (MIRA 9:8)
(Food industry and trade)

KAMENITSER, S.

Hidden potentialities for increasing labor productivity in industry
and ways to utilize them. Sets.trud no.2:26-37 F '56. (MLRA 9:7)
(Industrial management)

MOROZOV, Mikhail Vasil'yevich; KAMENITSER, S.Ye., spetsredaktor; AKIMOVA,
L.D., red.; MUSTAFIN, A.M., tekhn.red.

[Organization and planning in enterprises of the fish industry]
Organizatsiia i planirovanie predpriatii rybnol promyshlennosti.
Moskva, Pishchepromizdat, 1957. 422 p. (MIRA 11:5)
(Fisheries)

KAMENITSEV, S.

ITIN, L.; KAMENITSER, S.

New types of industrial management and some problems in the
operation of plants. Vop.ekon. no.5:29-37 My '57. (MLRA 10:7)
(Russia--Industries)

25(5)

PHASE I BOOK EXPLOITATION

SOV/2581

Veselkov, F. S., Yu. A. Gaydukov, S. Ye. Kamenitser, [Chief], V. G. Kontorovich, G. A. Pishchulin, A.M. Savkin, A.S. Tolstykh, and A.S. Fastovskiy

Ravnomernaya rabota mashinostroitel'nykh zavodov (Uniform Work of Machine-Manufacturing Plants) Moscow, Mashgiz, 1958. 171 p. Errata slip inserted. 4,000 copies printed.

Reviewer: A. K. Bondarenko, Engineer; Ed.: V. A. Letenko, Candidate of Economic Sciences; Tech. Ed.: V. D. El'kind; Managing Ed. for Literature on the Economics and Organization of Production (Mashgiz): T. D. Saksaganskiy.

PURPOSE: This book is intended for engineering and technical personnel in machine-manufacturing plants

COVERAGE: This book discusses the national economic importance of uniform operation of plants according to a schedule, and points out planning problems that should be solved to permit work uniformity in manufacturing establishments. It defines organizational and technical prerequisites for uniform work, shows the in-

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Uniform Work of Machine (Cont.)

SOV/2581

fluence of financial agencies of establishments on production uniformity, and describes methods of measuring work uniformity. The last two chapters are devoted to work practices at the Moscow "Elektroschetchik" Plant and the Pervyy Moskovskiy chasovoy zavod (First Moscow Watch and Clock Plant). No personalities are mentioned. There are no references.

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Card 4/5

ABRAMOV, V.A.; ALEKSEYEV, A.M.; AL'TER, L.B.; ARAKELYAN, A.A.; BAKIANOV, G.I.;
 BASOVA, I.A.; BLYUMIN, I.G.; BOGOMOLOV, O.T.; BOR, M.Z.; BREGEL',
 E.Ya.; VETTSMAN, N.R.; VIKENT'YEV, A.I.; GAL'TSOV, A.D.; GERTSOVSKAYA,
 B.R.; GLADKOV, I.A.; DVORKIN, I.N.; DRAGILEV, M.S.; YEFIMOV, A.N.;
 ZHAMIN, V.A.; ZHUK, I.N.; ZAMYATNIN, V.N.; IGNAT'YEV, D.I.; IL'IN,
 M.A.; IL'IN, S.S.; IOFFE, Ye.A.; KAYE, V.A.; KAMENITSER, S.Ye.;
 KATS, A.I.; KLIMOV, A.G.; KOZLOV, G.A.; KOLGANOV, M.V.; KONTOROVICH,
 V.G.; KRAYEV, M.A.; KRONROD, Ye.A.; LAKHMAN, I.L.; LIVANSKAYA, F.V.;
 LOGOVINSKAYA, R.L.; LYUBOSHITS, L.I.; MALYSH, A.I.; MENZHINSKIY,
 Ye.A.; MIKHAYLOVA, P.Ya.; MOISEYEV, M.I.; MOSKVIN, P.M.; NOTKIN,
 A.I.; PARTIQUIL, S.P.; PERVUSHIN, S.P.; PETROV, A.I.; PETRUSHOV, A.M.;
 PODGORNOVA, V.M.; RABINOVICH, M.A.; RYVKIN, S.S.; RYNDINA, M.N.;
 SAKSAGANSKIY, T.D.; SAMSONOV, L.N.; SMEKHOV, B.M.; SOKOLIKHIN, S.I.;
 SOLLERTINSKAYA, Ye.I.; SUDARIKOV, A.A.; TATAR, S.K.; TEREENT'YEV,
 P.V.; TYAGAY, Ye.Ya.; FEYGIN, Ye.G.; FIGURNOV, P.K.; FRUMKIN, A.B.;
 TSYRLIN, L.M.; SHAMBERG, V.M.; SHAPIRO, A.I.; SHCHENKOV, S.A.;
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765
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Ekonomika, Organizatsiya I Planirovaniye Promyshlennogo Predpriyatiya;
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503 P. Diagrs., Graphs, Tables. Bibliography: p. 495-t500.

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[Production organization and planning in food industry enterprises]
Organizatsiya i planirovaniye proizvodstva na predpriyatiyakh pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1959. 605 p. (MIRA 12:9)
(Food industry)

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Vop.ekon. no.6:50-58 Je '59. (MIRA 12:9)

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instituta (for Buzulukov). 2. Zaveduyushchiy kafedroy Moskov-
skogo gosudarstvennogo ekonomicheskogo instituta.
(Economics--Study and teaching)

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[Economics, organization, and production planning in the fish
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237 p.

(Fisheries)

(MIRA 14:3)

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Measuring labor productivity in industrial enterprises. Sots. trud
5 no.5:24-31 My '60. (MIRA 13:11)
(Moscow--Productivity accounting)

KAMENITSER, S.Ye.; BOBYLEVA, L.V., red.; GERASIMOVA, Ye.S., tekhn. red.

[Methodology for preparing a technical, industrial and financial plan for an enterprise] Metodika sostavleniia tekhpromfinplana promyshlennogo predpriiatiia. Moskva, Izd-vo ekon. lit-ry, 1961.
240 p. (MIRA 14:10)

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(Industrial management)

BILLIK, Abram Markovich; POZIN, Mark Markovich, kand. ekon. nauk; LOVIKOV, Petr Fedorovich; KAMENITSER, S. Ye., prof., doktor ekon. nauk, retsenzent; MOROZOV, M. V., kand. ekon. nauk, retsenzent; MESHKOV, Yu. K., kand. ekon. nauk, red.; MASLOVA, Ye. F., red.; BRODSKIY, M. P., tekhn. red.

[Organization and planning in refrigeration enterprises] Organizatsiia i planirovanie kholodil'nykh predpriatii. Moskva, Gos. izd-vo torg. lit-ry, 1961. 276 p. (MIRA 14:10)
(Refrigeration and refrigerating machinery)

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[Management guide for the industrial enterprises of the U.S.S.R.]
Khoziaistvennoe rukovodstvo promyshlennym predpriatiem v SSSR.
Moskva, Izd-vo ekon. lit-ry, 1961. 285 p. (MIRA 14:10)
(Industrial management)

KAMENITSER, Solomon Yefremovich; KONTOROVICH, Veniamin Gamsheyevich;
PISHCHULIN, Grigoriy Akimovich; PISKUNOV, V., red.;
TROYANOVSKAYA, N., tekhn.red.

[Economics, organization, and planning of an industrial
enterprise] Ekonomika, organizatsiya i planirovanie pro-
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Gos.izd-vo polit.lit-ry, 1961, 711 p.
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BIRMAN, A.M.; GAYDUKOV, Yu.A.; GOLUBTSOV, L.B.; ITIN, L.I.;
KAMENITSER, S.Ye.; MIRONOV, I.N.; TOLSTYKH A.S.; SHIMANSKIY,
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[School of socialist management; book for reading in schools
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Shkola sotsialisticheskogo khoziaistvovaniia; kniga dlia
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(MIRA 15:9)

(Industrial management)

BERRI, L.Ya., doktor ekon. nauk, prof.; MAKSIMOV, I.S.; ERAGINSKIY, B.I., kand. ekon. nauk, dots.; GERASHCHENKO, B.S., kand. ekon. nauk; GRIGOR'YEV, A.Ye., doktor ekon. nauk, prof.; ITIN, L.I., doktor ekon. nauk, prof.; LOKSHIN, E.Yu., doktor ekon. nauk, prof.; KAMENITSER, S.Ye., doktor ekon. nauk, prof.; OBLOMSKIY, Ya.A., kand. ekon. nauk, dots.; SOKOLOV, B.M., doktor ekon. nauk, prof.; SHASS, M.Ye., doktor ekon. nauk; STEPANOV, A.Ya.; ULITSKIY, L.I., doktor ekon. nauk, prof.; PODGORNOVA, V., red.; TROYANOVSKAYA, N., tekhn. red.

[Economics of socialist industry; textbook] Ekonomika sotsialisticheskoi promyshlennosti; uchebnik. Pod red. L.I. Itina, B.S. Gerashchenko. 2., dop. i perer. izd. Moskva, Gospolitizdat, 1961. 775 p. (MIRA 15:10)

1. Moscow. Gosudarstvennyy ekonomicheskiy institut. 2. Zaveduyushchiy kafedroy ekonomiki promyshlennosti Moskovskogo gosudarstvennogo ekonomicheskogo instituta (for Itin). (Russia--Industries)

DONSKOV, Vasil'y Yefimovich, prof.; ZUYEVA, Raisa Vasil'yevna, kand. ekon. nauk; KRUIZHKOVA, Raisa Vasil'yevna, kand. ekon. nauk; MESHIKOV, Yuriy Konstantinovich, kand. ekon. nauk; PONOMAREVA, Irina Andreyevna, kand. ekon. nauk; KHINKIS, Lev Akimovich, st. преподаvatel'; SHAMIN, Andrey Nikolayevich, st. преподаvatel'; KAMENITSER, S.Ye., doktor ekon. nauk, prof., retsenzent; SHVARTS, V.M., inzh.-ekon., retsenzent; FUKS, V.K., red.; PECHENKINA, O.P., tekhn. red.

[Production organization and planning in food industry enterprises] Organizatsiya i planirovaniye proizvodstva na predpriyatiyakh pishchevoy promyshlennosti. [By] V.E.Donskov i dr. Moskva, Pishchepromizdat, 1963. 454 p. (MIRA 17:2)

KAMENITSER, Solomon Yefremovich; KONTOROVICH, V.G.; PISHCHULIN, G.A.;
AVERISYAN, Ye., red.; TROYANOVSKAYA, N., tekhn. red.

[Organization and planning of an industrial enterprise] Organizatsiya i planirovaniye promyshlennogo predpriyatiya;
uchebnik. 3., perer. i dop. izd. Moskva, Gospolitizdat,
1969. 606 p. (MIRA 16:12)
(Industrial organization)

BERRI, L.Ya., doktor ekon. nauk, prof.; MAKSIMOV, I.S.; BRAGINSKIY, B.I., doktor ekon. nauk; GRIGOR'YEV, A.Ye., doktor ekon. nauk, prof.; ITIN, L.I., doktor ekon. nauk, prof.; LOKSHIN, E.Yu., prof.; KAMENITSER, S.Ye., doktor ekon. nauk, prof.; OBLOMSKIY, Ya.A., kand. ekon. nauk, dots.; SHASS, M.Ye., doktor ekon. nauk, prof.; STEPANOV, A.Ya.; ULITSKIY, L.I., prof., doktor ekon. nauk; PODGORNOVA, V., red.; TROYANOVSKAYA, N., tekhn. red.

[Economics of socialist industry] Ekonomika sotsialisticheskoi promyshlennosti; uchebnik. 3., dop. i perer. izd. Pod red. L.I. Itina. Moskva, Gospolitizdat, 1963. 646 p. (MIRA 16:8)

1. Moscow. Gosudarstvennyy ekonomicheskiy institut. 2. Zaveduyushchiy kafedroy ekonomiki promyshlennosti Moskovskogo instituta narodnogo khozyaystva im. G.V. Plekhanova (for Itin). (Russia--Industry)

BLIMAN, A.M.; GERSHKOVICH, I.I.; GOLUBTSOV, L.B.; ITIN, L.I.;
KAMENITSER, S.Ye.; KONTOROVICH, V.G.; MOROZOV, P.A.;
TOLSTYKH, A.S.; SHIMANSKIY, V.P.; SHUVALOV, N.M.;
AVETISYAN, Ye., red.

[School of socialist management; a school reader for workers
studying the economics of industrial enterprises] Shkola
sotsialisticheskogo khoziaistvovaniia; kniga dlia chteniia v
shkolakh rabochikh, izuchaiushchikh ekonomiku promyshlennykh
predpriatii. Izd.2., perer.i dop. Moskva, Politizdat,
1964. 318 p. (MIRA 17:8)

KAMENIYEV, I.Ye.

Effect of the active sublayer on the changes in prismatic faces
of apatite crystals. Zap. Vses. min. ob-va 88 no.6:705-708 '59.

(MIRA 13:8)

1. Kafedra kristallografii Leningradskogo universiteta.
(Apatite crystals)

KAMENKA, B. I.

Mass blastings for removal and dumping in the construction of coal mine pits. Moskva, Ugletekhizdat, 1949. 222 p. (50-26832)

TN803.K3

1. Blasting. 2. Coal mines and mining -- Explosives. I. Izrailev, A. I.. jt. au.

KAMENKA, B. I.

Technology

Rationalization in the preparation of mass blasting in the mine, Moskva, Ugletekhizdat, 1950.

Monthly List of Russian Accessions, Library of Congress, October 1952, UNCLASSIFIED.

KAMENKA, B.I.

~~KAMENKA, B.I.~~, inzhener; ROSSI, B.D., kandidat tekhnicheskikh nauk, laureat
Stalinskoy premii, redaktor; KRASIL'SHCHIK, S.I., redaktor; TOKER,
A.M., tekhnicheskii redaktor

[Reference booklet on safety measures for blasters in open pit mining
and at construction sites] Pamiatka po tekhnike bezopasnosti dlia
vzryvnika otkrytykh razrabotok i stroitel'nykh ploshchadok. Moskva,
Gos. izd-vo lit-ry po stroit. i arkhitekt. 1954. 41 p. (MLRA 8:4)

1. Russia (1923- U.S.S.R.) Ministerstvo stroitel'stva. Otdel
tekhniki bezopasnosti i promyshlennoy sanitarii.
(Explosives--Safety measures)

KAMENKA, B.I., gornyy inzhener; KORENISTOV, A.V., gornyy inzhener.

Defective chapters in a textbook ("Technology of the building industry" by A.V. Sochin, Reviewed by B.I. Kamenka, A.V. Korenistov). Mekh.trud.rab.10 no.10:47 0 '56. (MIRA 10:1)
(Boring) (Blasting) (Sochin, A.V.)

KAMENEA, B.I., inzh.

Thermal piercing of hard rocks. Shakht. stroi. no.5:7-10 '58.
(MIRA 11:6)

(Boring)

KAMENKA, B.I., inzh.; MIKHAYLOV, N.G., kand.tekhn.nauk

"Handbook on boring and blasting operations," Shakht.
stroil. 4 no. 6:31-32 Je '60. (MIRA 13:11)
(Boring) (Blasting)

KAMENKA, B.I.

Flame drilling of bore holes in frozen ground. Prom. stroi. 40
[i.e. 41.] no.3:36-38 Mr '63. (MIRA 16:3)

1. Gidrospetsstroy.
(Frozen ground) (Boring machinery)

KAMENKO, P. (Colonel of Guard)

"Radioactive Decontamination of Equipment and Skin in Winter," from a series
"Atomic Weapon Defense", Krasnaya Zvezda, No.25, page 2, 30 Jan 55

Summary of article - D 256353, Jun 55

L 02504-67

ACC NR: AP6016802 (A) SOURCE CODE: UR/0018/66/000/001/0045/0046

AUTHOR: Kamenko, P. (Colonel)

17

ORG: none

B

TITLE: Use of smoke in warfare

SOURCE: Voyenny vestnik, no. 1, 1966, 45-46

TOPIC TAGS: military tactic, screening smoke

ABSTRACT: With the use of radiolocation, infrared, and television techniques in warfare, many are of the opinion that the use of smoke to mask objectives has outlived its usefulness. The author of the article, however, is of the opinion that this is not completely true. He points out that the use of smoke screens makes it impossible for the enemy to observe the target and its precise location by optical means, and that it becomes impossible to correct artillery, tank, and small arms fire. The author believes also that the use of tactical nuclear arms also depends to a large degree on actual observation of the objective. He says that the "Davy Crockett" missile is generally fired from a distance of from 2 to 4 kilometers, and that accurate observation is necessary even here. Orig. art. has: none.

SUB CODE: 15/ SUBM DATE: none

Card 1/1

KAMENKO, P., and GLUSHKO, A.

"Decontamination of Weapons and Military Equipment," a chapter from the book Problems in the Utilization of Atomic Energy, the second revised edition of a collection of articles, published in 1956, Moscow, USSR

KAMENKO, V.

Modernization of the "Ideal" vacuum injector for stuffing. Mias.ind.
SSSR 33 [i.e.34] no.2:51-52 '63. (MIRA 16:4)

1. Leningradskiy myasokombinat.
(Meat industry—Equipment and supplies)

KAMENKO, V. A.

KAMENKO, V. A. ---"Investigation of the Process of Drying Baker's Yeast Using the Sublimation Method." (Dissertations for Degrees in Science and Engineering Defended at USSR Higher Educational Institutions) Min of Higher Education USSR, Belorussian Polytechnic Inst imeni I. V. Stalin, Minsk, 1955

SO: Knizhnaya Letopis', No. 25, 18 Jun 55

* For Degree of Candidate in Technical Sciences

KARAGODIN, Vladimir Mikhaylovich, ~~KAMENKOV, G. V.~~, doktor fiz.-mat. nauk,
prof., retsenzent; GORTSUYEVA, N.A., red.izd-va; SKOTNIKOVA,
N.N., tekhn. red.

[Theoretical fundamentals of the mechanics of a body with
variable composition] Teoreticheskie osnovy mekhaniki tela
peremennogo sostava. Moskva, Oborongiz, 1963. 177 p.

(MIRA 16:9)

(Mechanics)

TARASOV, Yevgeniy Vasil'yevich; KAMENKOV, G.V., doktor fiz.-mat. nauk,
prof., retsenzent; GORISUYEVA, N.A., red.izd-va; SKOTNIKOVA,
N.N., tekhn. red.

[Optimum flight conditions for flying vehicles] Optimal'nye
rezhimy poleta letatel'nykh apparatov. Moskva, Oborongiz,
1963. 247 p. (MIRA 16:9)
(Airplanes) (Space vehicles)

KANENKOV, G. V.

Issledovaniye odnogo osobennogo po lyapunovu sluchaya zadachi ustoychivosti po lyapunovu. Kazan, trudy aviats, 3 (1934).

Ob ustoychivosti dvizheniya vodnom osobennom sluchaye, I Kazan Trudy aviats. in-ta, 4 (1935).

Issledovaniye odnogo osobennogo sluchaya ob ustoychivosti dvizheniya, II. Kazan Trudy aviats. in-ta, 5 (1936).

Ob ustoychivosti dvizheniya Kazan Trudy aviats. in-ta, 6 (1937).

SO: Mathematics in the USSR, 1917-1947

edited by Kurosh, A. G.,

Markushevich, A. I.,

Rashevskiy, P. K.

Moscow-Leningrad, 1948

KAMENKOV, G.V.; LEBEDEV, A.A.

Remarks on the article about the stability in a finite time interval. Prikl.mat. i mekh. 18 no.4:512 J1-Ag '54. (MLRA 7:8)
(Motion) (Stability)

KARAGODIN, Vladimir Mikhaylovich, kandidat tekhnicheskikh nauk; ~~KAMENKOVA, G.V.~~,
doktor fiziko-matematicheskikh nauk, professor, redaktor; KOROSTELEV,
Yu.I., inzhener, redaktor; LOSEVA, G.F., redaktor; LEBEDEVA, L.A.,
tekhnicheskiiy redaktor.

[Some problems in the mechanics of bodies with variable mass] Nekoto-
rye voprosy mekhaniki tela peremennoi massy. Moskva, Gos.izd-vo obr.
promyshl., 1956. 30 p. (Moscow. Aviatsionnyi institut. Trudy, no. 63)
(MIRA 9:10)

(Kinematics) (Motion) (Rockets (Aeronautics))

KAMENKOV, G.V. (Moscow)

"Study of non-linear vibrations by means of Lyapunov's functions"

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

ACCESSION NR: AR4039834

S/004/64/000/004/B055/B055

AUTHOR: Kamenkov, O. V.

TITLE: On the stability of motion in near-critical cases

SOURCE: Ref. zh. Matematika, Abs. 4B235

TOPIC TAGS: motion stability, Lyapunov function, derivation, near critical case

TRANS: The following system is considered: $\frac{dx}{dt} = \dots, \frac{dy}{dt} = \dots$

The equations are transformed into polar coordinates and cases are indicated in which there is a family $C(\mu)$ of periodic solutions approaching the 0 solution as $\mu \rightarrow 0$. The method of detecting limit cycles is used in the construction of a Lyapunov function, the derivative of which changes sign on the boundary of a certain circular ring V. Nemytskiy.

ASSOCIATION: none

SUB CODE: MA

DATE ACQ: 15May64

ENCL: 00

Card 1/1

1. JOR11-65 EWT(d)/EWA(m)-2 LIP(c)

ACC NR: AP5000543

SOURCE CODE: UR/0040/65/029/006/1053/1069

AUTHOR: ^{44, 55} Kamenkov, G. V. (Moscow)

ORG: none

TITLE: On the problem of motion stability in critical cases

SOURCE: Prikladnaya matematika i mekhanika, v. 29, no. 6, 1965, 1053-1069

TOPIC TAGS: stability criterion, periodic function, approximation method, Lyapunov problem, Hamiltonian

ABSTRACT: ^{10, 44, 55} The stability of motion expressed by the system of perturbation equations

$$x' = -\frac{\alpha}{\beta} y + \frac{1}{\beta} \sum_{l=2}^{\infty} X^{(l)}(x, y, \tau), \quad y' = \frac{\alpha}{\beta} x + \frac{1}{\beta} \sum_{l=2}^{\infty} Y^{(l)}(x, y, \tau) \quad (1)$$

is analyzed in terms of the Lyapunov problem for a rational

$$\lambda \omega / \pi. \quad (2)$$

In equation (1), X and Y represent holomorphic functions of the variables $x_1, \dots, x_p, y_1, \dots, y_p$, whose expansions start with terms lower than second order and are given by

$$X^{(l)} = \sum_{k_1+k_2=l} a^{(k_1, k_2)}(\tau) x^{k_1} y^{k_2}, \quad Y^{(l)} = \sum_{k_1+k_2=l} b^{(k_1, k_2)}(\tau) x^{k_1} y^{k_2} \quad (3)$$

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L 10011-66

ACC NH: AP6000543

0

$$a^{(k, k_1)}(\tau) = \sum_{n=0}^{\infty} (a_{0n}^{(k, k_1)} \cos n\tau + a_{1n}^{(k, k_1)} \sin n\tau)$$

$$b^{(k, k_1)}(\tau) = \sum_{n=0}^{\infty} (b_{0n}^{(k, k_1)} \cos n\tau + b_{1n}^{(k, k_1)} \sin n\tau) \cdot$$

After proper transformations equation (1) is given by

$$x_1' = X_1^{(m)}(x_1, y_1) + X_1^{(m+1)}(x_1, y_1) + \dots + X_1^{(m+N)}(x_1, y_1) + X_1^{(m+N+1)}(x_1, y_1, t) \quad (4)$$

$$y_1' = Y_1^{(m)}(x_1, y_1) + Y_1^{(m+1)}(x_1, y_1) + \dots + Y_1^{(m+N)}(x_1, y_1) + Y_1^{(m+N+1)}(x_1, y_1, t)$$

and a detailed analysis is made of the stability of its integral. The functions X and Y are first expressed in the form

$$F_0 = xY^{(m)} - yX^{(m)} = 0 \quad (5)$$

with real solutions

$$a_k x + b_k y = 0 \quad (k = 1, \dots, p) \quad p \leq m + 1, \quad (6)$$

and then the stability of equation (4) is studied under the following two conditions:

1) when the stability question is solved in the m-th order form independent of higher order solutions; 2) when equation (5) is of a fixed sign. The stability criterion for the m + 1-order form leads to the function

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1. 10811-85
ACC NR: AP6000543

$$\Phi_j = \frac{Y^{(m-k)}(x, y) X^{(m+1)}(x, y) - X^{(m-k)}(x, y) Y^{(m+1)}(x, y)}{x Y^{(m-k)} - y X^{(m-k)}} \quad (7)$$

which is shown to be given as follows: If one of the straight lines $-y + X_j x = 0$ ($j = 1, \dots, p$), the function Φ_j takes on a positive value, and the unperturbed motion is unstable; if on all straight lines $\Phi_j < 0$, then the unperturbed motion is asymptotically stable. To study higher order forms, the perturbation equation is expressed as

$$\begin{aligned} \dot{x}_1 = & x^2 (A_1^{(m-1)} x_1^{m-2} + \dots + A_{m-1}^{(m-1)} x_1^{m-2}) + A_0^{(m+1)} x_1^{m+1} + \dots \\ & + A_{m+1}^{(m+1)} x_1^{m+1} + \sum_{l=2}^{\infty} \sum_{k=0}^{m+1} H_k^{(m+l)} x_1^{m+l-k} x^k \\ \dot{z} = & z (B_0^{(n-1)} x_1^{m-1} + \dots + B_{m-1}^{(n-1)} x_1^{m-1}) + \sum_{l=1}^{\infty} \sum_{k=0}^{m+1} E_k^{(m+l)} x_1^{m+l-k} z^k, \end{aligned} \quad (8)$$

also $\Phi_j = 0$, on the straight line $-y + X_j x = 0$ and is negative on the line given by $j = p_1 + 1, \dots, p$. It is also shown that the integral of equation (4) is unstable under the conditions

$$X^{(m)}(1, x_1) = 0, \quad Y^{(m)}(1, x_1) = 0, \quad F_x(1, x_1) = 0. \quad (9)$$

Furthermore, the oscillation stability of the following Hamiltonian system is analyzed

Card 3/4

L 10811-66

ACC NR: AP6000543

$$H = \frac{a}{2\beta} (x^2 + y^2) + \frac{1}{\beta} [(a^{(3,0)}x^3 + a^{(2,1)}x^2y + a^{(1,2)}xy^2 + a^{(0,3)}y^3 + \dots] + H^{(4)}(x, y, \tau) + \dots \quad (10)$$

briefly and the overall analysis is then extended to higher order systems where the λ_s are all irrational and the perturbation equations are given by

$$\dot{z}_s = i\lambda_s z_s + Z_s(z_1, \dots, z_p, \bar{z}_1, \dots, \bar{z}_p, \tau), \quad \dot{\bar{z}}_s = -i\lambda_s \bar{z}_s + \bar{Z}_s(z_1, \dots, z_p, \bar{z}_1, \dots, \bar{z}_p, \tau) \quad (6.1) \quad (11)$$

Orig. art. has: 45 equations.

SUB CODE: 20, 12/ SUBM DATE: 21Apr65/ ORIG REF: 006/ OTH REF: 002

Card 4/4

KAMENKOVA, K.V.

Some data on the ecology of Sympherobius as related to its
propagation. Trudy VIZR no.1:102-104 '48. (MIRA 11:7)
(lacewing flies)

MEYER, N.F. [deceased], doktor sel'skokhozyaystvennykh nauk; KAMENKOVA, K.V.

Methodology involved in the mass propagation of *Symphorobius*
amicus Nav. Trudy VIZR no.1:105-107 '48. (MIRA 11:7)
(lacewing flies)

KAMENKOVA, K. V.

"Eurygaster Intergriceps Parasites and Their Complementary Hosts in the Premountain Regions of the Krasnodarskiy Kray." Cand Biol Sci, All-Union Sci Res Inst of Plant Protection; All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin, Leningrad, 1955. (KL, No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

KAMENKOVA, K.V.

Phasiid flies (Diptera, Phasiidae), parasites of stink bugs
(Pentatomidae) in Krasnodar Territory. Ent.oboz. 35 no.2:
324-333 '56.

(MLRA 9:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity
rasteniy Vsesoyuznoy Akademii sel'skokhozyaystvennykh nauk
imeni V.I. Lenina, Leningrad.
(Tachinidae) (Pentatomidae)

KAMENKOVA, K. V.

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour : Ref Zhur - Biol., No 9, 1958, 40092

Author : Shapiro, V.A., ~~Kamenkova, K.V.~~

Inst : -

Title : The Preservation of the Parasites of the Gypsy Moth in Chemical Treatments.

Orig Pub : Losn. kh-vo, 1956, No 12, 43-45.

Abstract : Chemical treatments in the early spring, which cease not later than the appearance of the larvae of the second hatching of the silkworm, are most effective against the pest but do no harm to the greatest part of the parasites still in their hibernation localities. Decrease in the numbers of the host leads to an increase in the effectiveness of the parasites. Since the parasites are preserved it is possible to carry on the chemical treatments selectively. The parasites successfully concentrate in neglected sections and suppress the pest, at the expense of

Card 1/2

USSR/General and Systematic Zoology. Insects. Harmful
Insects and Acardis. Forest Pests.

P

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11640

Author : Shapiro, V.A., Kamenkova, K.V.
Inst : All-Union Institute for the Protection of Plants
Title : Concerning the Feasibility of Combining DDT
Chemical Treatments with the Activity of Parasites
in the Control of a Vernal Group of Harmful
Butterflies on Forest Plantations.

Orig Pub : Tr. Vses. in-ta zashchity rast., 1957,8, 99-114.

Abstract : According to investigations of the forest belts
of the Kamennaya Steppe, it is possible to combine
the activity of parasites with the chemical con-
trol of the Gypsy Moth (M) and other leaf-mining
pests. The treatment should be conducted prior
to the transition of the M caterpillars into the

Card : 1/3

- 30 -

USSR/General and Systematic Zoology. Insects. Harmful
Insects and Acarids. Forest Pests.

P

Abs Jour : Ref Zhur - Biol., No 3, 1959, No 11640

2nd generation. These treatments are effective
against a large group of leaf-mining insects, which
develop in the first half of summer, and are
harmless against entomophages, the basic part of
which is found already in hibernating places. The
treatments against the caterpillars of older gen-
erations are little effective even at increased
doses in expenditure of toxins and cause consider-
able destruction of entomophages, the greater
part of which in the period of the M caterpillars'
3rd generation is in the active state and concen-
trated on the plantations. During the chemical
destruction of the pests in early periods, the
numerical relations are modified in favor of the
entomophages. For the maximal preservation of the

Card : 2/3

SHAPIRO, V.A., kand.biol.nauk; KAJDENKOVA, K.V., kand.biol.nauk

Possibility of combining chemical treatment with DDT and the
activity of parasites in controlling the spring complex of
injurious butterflies in forest plantations. Trudy VIZR
no.8:99-114 '57. (MIRA 12:8)
(DDT (Insecticide)) (Parasites--Forest insects)

KAMENKOVA, K.V.

COUNTRY	USSR	P
CATEGORY	General and Specialized Zoology. Insects. Grain Pests	
ABST. JOUR.	: Entomol., No. 22 1958, No. 100015	
AUTHOR	: Kamenkova, K.V.	
INST.	:-	
TITLE	: Certain features of the Biology of the Stinkbug <i>Syrphaster integriceps</i> in the Piedmont Zone of the Arashnorskii Kray	
ORIG. PUB.	: Zhool. Zh., 1957, Vol. 36, No. 10, 1467-1478	
ABSTRACT	The stinkbug appears on wheat crops at the end of March and early and mid-April. At the beginning of its migration the number of bugs hibernating chiefly in the mountains and piedmont regions is greater than those hibernating in the valleys, but in 1-2 weeks the ratio is reversed. In the piedmont, the females lay eggs preferably in weeds (10 species have been described) which grow among crops and only when these dry up do the bugs lay eggs in the wheat; egg-laying lasts from 10-2 months and longer. Hatching of the larvae coincides with the phase of emergence of winter wheat into tubules, their transition to the stage II with the onset	
CARD:	1/2	

KAMENKOVA, K.V., kand. biol. nauk.

Reasons for the high effectiveness of parasites that eat eggs
of the shield bug *Eurygaster integriceps* Put. Trudy VIZR no.9:
285-311 '58. (MIRA 12:1)
(Krasnodar Territory--Eurygasters--Biological control)

KAMENKOVA, K.V.

~~Department of Entomology~~

Biology and ecology of *Dolycoris baccarum* L., additional host to the parasites of the shield bug in Krasnodar Territory [with summary in English]. Ent'oboz. 37 no. 3:563-579 '58. (MIRA 11:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zashchity rasteniy, Leningrad.

(Abinskaya District--Hemiptera)
(Parasites--Eurygaster)

KAMENKOVA, K.V.

Biology of *Meniscus agnatus* Grav. (Hymenoptera, Ichneumonidae),
a parasite of the cutworm *Hadena sordida* Bkh., and ways to increase
its effectiveness in the areas of reclaimed virgin lands. Ent. oboz.
42 no.1:91-109 '63. (MIRA 16:8)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Kustanay Province—Ichneumon flies)
(Kustanay Province—Cutworms—Biological control)

KAMENKOVA, K.V., kand. biolog. nauk

Trichogramma against the cutworm *Agrotus segetum*. Mashch. rast.
ot vred. i bol. 9 no. 6:13 '64 (MIRA 17:27)

KAMENKOVA, K.V.; MOLCHANOVA, V.A.

Use of radioactive phosphorus isotope for marking grain cutworms
and their parasites. Vop. ekol. 4:111 '62. (MIRA 15:11)

1. Vsesoyuznyy institut zashchity rasteniy, Leningrad.
(Phosphorus--Isotopes) (Cutworms) (Insects, Marking of)

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1. Moskovskiy inzhenerno-stroitel'nyy institut imeni V. V.
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Effect of bottom relief on a purely wind drift current in a homogenous
boundless sea. Izv.AN SSSR.Ser.geofiz. no.10:1182-1187 0 '56.
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1. Akademiya nauk SSSR Institut okeanologii.
(Ocean bottom) (Ocean currents)

AUTHOR: Kamenkovich, V. M.

20-119-6-22/56

TITLE: Certain Simplifications in the Equations of the Dynamics of Steady Currents in a Baroclinic Sea (O nekotorykh uproshtseniyakh uravneniy dinamiki statsionarnykh techeniy v baroklinnom more)

PERIODICAL: Doklady Akademii Nauk SSSR, 1958, Vol. 119, Nr 6, 1134-1137 (USSR)

ABSTRACT: The present paper is devoted to the investigation of steady currents caused by the wind in a deep and stably stratified sea with vertical shores. Let the y-axis be directed to the north, the x-axis to the east and the z-axis vertically downward. In the absence of currents the distributions of density and pressure along the vertical axis are given by the formulae:

$$\rho(z) = \rho_0(1 + \gamma z), P(z) = p_a + \int_0^z g \rho(z) dz.$$

Then the equations for the description of the problem of the dynamics of ocean currents are written down, and the

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Certain Simplifications in the Equations of the
Dynamics of Steady Currents in a Baroclinic Sea

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boundary conditions are given. The aim of the present paper is to simplify these equations and the boundary conditions by estimating the orders of magnitude occurring in these equations for motions with characteristic dimensions of 1000 km. The field of the hydrodynamical elements in the ocean is divided into a sum of two components (drive component and gradient component). The drive component is the result of the uninterrupted action of the wind friction at the water surface. The vertical mixing plays an important role in it. The depth of penetration of the drive component is a secondary result of the wind action and is essentially connected with the inhomogeneity of density. The depth of penetration of this component is of the order of 1000 m (order of magnitude of the baroclinic layer in the ocean). The author first deduces the expressions for the drive component. Then the anomalous values for the gradient component are computed. The relations proceeding after performing all estimates for the drive component and for the gradient component are written down. Subsequently the

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SOV/20-128-6-19/63

AUTHORS:

Ivanov, Yu. A., Kamenkovich, V. M.

TITLE:

Bottom Relief as the Main Factor Responsible for the Non-zonal Course of the Antarctic Circumpolar Current

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 6, pp 1167-1170 (USSR)

ABSTRACT:

A few previous papers dealing with the problem are first mentioned briefly. The dynamic map of the Antarctica supplied by V. G. Neyman shows the basic deviations from the zonal course, as curvatures of isolines, circuits, etc. Their relation with the large unevenness of the ground strikes the eye. This fact had already been pointed out by H. V. Sverdrup and V. B. Shtokman when analyzing the influence exerted by the bottom relief on the marine currents. From the analysis of the dynamic map and the results obtained from the mentioned previous investigations the authors draw the conclusion that the bottom relief exerts an important influence on the Antarctic circumpolar current. That means that the current reaches down to the bottom of the ocean. The comparatively slight vertical density gradients in the Antarctic waters lead to a more homogeneous vertical structure of the current velocity than it is the case

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on the isolines obtained. To compare the theoretical deductions with the dynamic map, the authors drew a map containing the isolines of function $\sin \varphi/H$. The main properties of the isolines are in good agreement in both maps: namely the U-shaped isolinear curvatures over the mountain ranges, the circuits over local elevations and depressions, curvatures of the current in the region of the South Pacific mountain range and of the Bellingshausen depression. The results obtained here permit various conclusions to be drawn concerning the water circulation in little investigated waters of the Antarctica. There are 3 figures and 8 references, 2 of which are Soviet.

ASSOCIATION: Institut okeanologii Akademii nauk SSSR (Institute of Oceanology of the Academy of Sciences, USSR)

PRESENTED: June 10, 1959, by V. V. Shuleykin, Academician 4

SUBMITTED: June 8, 1959
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S/049/60/000/01/008/027
E201/E191

AUTHOR: Kamenkovich, V.M. ✓

TITLE: The Quasi-Steady Drift Currents in the Ocean

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geofizicheskaya,
1960, No 1, pp 74-82

TEXT: The author discusses non-steady drift currents in the ocean. A parameter ψ is introduced which is the ratio of the time scales of the wind field and inertial oscillations of the drift motion. If ψ is of the order of 10 or larger most of the energy transferred by the wind to water is used up by quasi-steady motion and the energy lost in inertial oscillations is small. Since the characteristic time of variations of large-scale wind fields is of the order of several days, the value of ψ is of the order of 10. Inertial oscillations are important if ψ is of the order of 1, i.e. when the time scale of wind variation is of the order of several hours. The author deals only with the former case, i.e. when ψ is of the order of 10. Asymptotic expansions are given for the velocity and total flow of drift currents for large values of ψ . The total flow is defined as:

$$S = \int_0^H U dz,$$

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AUTHOR: Kamenkovich, V. M.

TITLE: Problem of the Ground Relief on the Circumpolar Current in the Antarctic

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 134, No. 5, pp. 1076 - 1078

TEXT: The differential equation (1)

$$\frac{\omega A_z \cos \theta}{H^2} \Delta \psi + \frac{\partial \psi}{\partial \theta} \frac{1}{\sin \theta} \frac{\partial}{\partial \lambda} \left(\frac{2\omega \cos \theta}{H} \right) - \frac{1}{\sin \theta} \frac{\partial \psi}{\partial \lambda} \frac{\partial}{\partial \theta} \left(\frac{2\omega \cos \theta}{H} \right) = \frac{a_0}{\sin \theta} \frac{\partial}{\partial \theta} \left[\frac{\tau_\lambda \sin \theta}{H} \right]$$

was obtained in Ref. 1 for the description of the current lines of the circumpolar currents in the Antarctic. An estimate of the relations between the ground relief and the current lines may be made from this equation. A solution of equation (1) for a given divergence Q of the current and a given wind field $\tau_\lambda(\theta)$ is obtained in the present paper. For the depth H of the ground relief it is assumed that $H = H^* + H'$.

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where H' is the random disturbance to the large-scale component H^* of the ground relief. $n = \sum_{n=0}^{\infty} \sum_{m=0}^{\infty} \left\{ \cos bm(\varphi - 2\pi/9) [a_{mn} \cos n\lambda + b_{mn} \sin n\lambda] \right\} (2).$

On using the current lines shown on the map, the differential equation (1) takes the form $\frac{\sqrt{\omega A N}}{H^* 2} \Delta \Psi + \frac{2\omega}{\xi} \left[\frac{\partial \Psi}{\partial r} \frac{\partial \xi}{\partial \lambda_1} - \frac{\partial \Psi}{\partial \lambda_1} \frac{\partial \xi}{\partial r} \right] = \frac{a_0}{qr} \frac{\partial}{\partial r} \left[\frac{r \tau_{\lambda}(r)}{M H^*} \right] (4).$ The

map is divided into coordinate nets, the unit nets being approximately 250 km in sidelength. The coefficients in (4) were determined for these units; and for the region D of the coordinates r and λ_1 in (4) the

differential equation (5) is obtained:

$\epsilon A(r, \lambda_1) \Delta \Psi_1 + \frac{\partial \Psi_1}{\partial r} \frac{\partial \xi}{\partial \lambda_1} - \frac{\partial \Psi_1}{\partial \lambda_1} \frac{\partial \xi}{\partial r} = \epsilon F(r, \lambda_1) (5).$ The differential

equation (6) corresponds to (5) in the orthogonal coordinate system ξ, η . The function $\Psi_0(\xi)$ is obtained from the differential equation (7):

$$A \frac{|\text{grad } \xi|^2}{(\xi, \eta)} \frac{d^2 \Psi_0}{d\xi^2} + A \frac{\Delta \xi}{(\xi, \eta)} \frac{d \Psi_0}{d\xi} = \frac{F}{(\xi, \eta)} (7)$$

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A. M. Il'in is thanked for valuable advice. There are 2 Soviet references.

ASSOCIATION: Institut okeanologii Akademii nauk SSSR (Institute of
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SUBMITTED: May 25, 1960

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