GUREVICH, Viktor Borisovich; MINORSKIY, Vasiliy Pavlovich; SHOSTAK, R.Ya.,
red.; SOLODKOV, V.A., red.; AKHLAMOV, S.N., tekhn.red.

[Textbook of analytical geometry for institutions of higher
learning] Uchebnik analiticheskoi geometrii dlia vtuzov.
Moskva, Gos. izd-vo fiziko-matematicheskoi lit-ry, 1958. 163 p.
    (Geometry, Analytical--Textbooks)   (MIRA 12:1)

LAZAREV, Petr Vasil'yevich; SOLODKOV, V.A., red.; TIKHONOVA, Ye.A., tekhn.
red.

[System and practices in the operation of motorships of the
"Uglegorsk" type] Ustroistvo i opyt tekhnicheskoi ekspluatatsii
teplokhodov tipe "Uglegorsk." Moskva, Izd-vo "Morskoi transport,"
1958. 201 p.   (MIRA 11:7)
                              (Motorships)

KOSTOVSKIY, Aleksandr Nikitovich; SOLODKOV, V.A., red.; YERMAKOVA,
Ye,A., tekhn.red.

[Geometrical drawing with compass only] Geometricheskie
postroeniia odnim tsirkulem. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1959. 61 p. (Populiarnye lektsii po mate-
matike, no.29)
                                                        (MIRA 12:8)
                    (Geometrical drawing)

DUBNOV, Yakov Semenovich; SOLODKOV, V.A., red.; KRYUCHKOVA, V.N.,
          tekhn.red.

[Introduction to analytic geometry; self-study manual] Vvedenie
v analiticheskuiu geometriiu; posobie dlia samoobrazovaniia.
Izd.2. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 179 p.
                                                    (MIRA 12:12)
                    (Geometry, Analytic)

ROMANOVSKIY, Pavel Ignat'yevich; SOLODKOV, V.A., red.; KRYUCHKOVA, V.N.,
tekhn.red.

[Fourier series; Field theory; Analytic and special functions;
Laplace transformation] Riady Fur'e; Teoriia polia; Analiti-
cheskie i spetsial'nye funktsii; Preobrazovanie Laplasa. Izd.
2., dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 303 p.
(MIRA 12:9)

(Mathematics)

RUDAYEV, Aleksey Kiriakovich; SOLOIKOV, V.A., red.; YERMAKOVA, Ye.A.,
        tekhn.red.

    [Collection of problems in descriptive geometry] Sbornik zadach
    po nachertatel'noi geometrii. Izd.10. Moskva, Gos.izd-vo
    fiziko-matem.lit-ry, 1959. 343 p.   (MIRA 12:10)
            (Geometry, Descriptive--Problems, exercises, etc.)

ZELENIN, Yevgeniy Vladimirovich; KOTOV, I.I., retsenzent; SOLODKOV,
    V.A., red.; MURASHOVA, N.Ya., tekhn.red.

[Course in descriptive geometry with problems and exercises]
Kurs nachertatel'noi geometrii s zadachami i uprazhneniiami.
Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 386 p.
                                                    (MIRA 13:2)
                (Geometry, Descriptive)

YEFIMOV, Nikolay Vladimirovich; SOLODKOV, V.A., red.; TUMARKINA, N.A.,
tekhn.red.

[Short course of analytical geometry] Kratkii kurs analiticheskoi
geometrii. Izd.5., stereotipnoe. Moskva, Gos.izd-vo fiziko-
matem.lit-ry, 1960. 256 p.   (MIRA 13:7)
(Geometry, Analytic)

SHILOV, Georgiy Yevgen'yevich; SOLODKOV, V.A., red.; GAVRILOV, S.S.,
tekhn.red.

[Mathematical analysis; a special course] Matematicheskii analiz;
spetsial'nyi kurs. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960.
388 p.   (MIRA 13:5)
                    (Mathematical analysis)

BERMAN, Georgiy Nikolayevich [deceased]. Prinimali uchastiye: ARAMANOVICH,
    I.G.; KORDEMSKIY, B.A.; POZOYSKIY, R.I.; SHESTOPAL, M.G.; SOLODKOV,
    V.A., red.; AKHLAMOV, S.N., tekhn.red.

    [Collection of problems for the course in mathematical analysis]
    Sbornik zadach po kursu matematicheskogo analiza. Izd.10, perer.
    i dop. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 443 p.
                                                (MIRA 13:12)
        (Mathematical analysis--Problems, exercises, etc.)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,
    Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich. Prinimali
    uchastiye: ABRAMOV, A.A.; BOCHEK, I.A.; YEVGRAFOV, M.A.; ZYKOV,
    A.A.; KARABEGOV, V.I.; KARIMOVA, Kh.Kh.; KUDRYAVTSEV, L.D.;
    KUTASOV, A.D.; SHURA-BURA, M.R.; SHCHEGLOV, M.P. SOLODKOV,
    V.A., red.; KRYUCHKOVA, V.N., tekhn.red.

[Problems in elementary mathematics] Zadachi po elementarnoi
matematike. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 463 p.
                                              (MIRA 14:1)
            (Mathematics--Problems, exercises, etc.)

ZELENIN, Yevgeniy Vladimirovich; SOLODKOV, V.A., red.; KOLESNIKOVA,
        A.P., tekhn. red.

        [Course in projective geometry including problems and exercises]
        Kurs nachertatel'noi geometrii s zadachami i uprazhneniiami.
        Izd.2., dop. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961.
        392 p.   (MIRA 15:2)
                        (Geometry, Projective)

LIDSKIY, Viktor Borisovich; OVSYANNIKOV, Lev Vasil'yevich; TULAYKOV,
    Anatoliy Nikolayevich; SHABUNIN, Mikhail Ivanovich; SOLODKOV,
    V.A., red.; KRYUCHKOVA, V.N., tekhn. red.

    [Problems in elementary mathematics] Zadachi po elementarnoi
    matematike. Izd.2., stereotipnoe. Moskva, Gos. izd-vo
    fiziko-matem. lit-ry, 1962. 463 p.   (MIRA 15:3)
        (Mathematics—Problems, exercises, etc.)

LEVIN, L.Ya.; VANCHIKOV, V.A.; SHUR, A.B.; KAYLOV, V.D.; BYALYY, L.A.;
        Prinimali uchastiye: RUSAKOV, P.G.; ANTONOV, V.M.; KOSTROV, V.A.;
        KOTOV, A.P.; YEGOROV, N.D.; BUGAYEV, K.M.; SOLODKOV, V.I.;
        YASHCHENKO, B.F. KOREGIN, A.V.; SAPOZHNIKOV, N.P.; TSUKANOV, V.N.;
        VITOVSKIY, V.M.

        Mastering the operation of high-capacity blast furnaces. Stal'
        23 no.9:773-778 S '63.   (MIRA 16:10)

MOISEYKOV, G.F.; KONDRATOV, V.R.

Optimal temperature of the production process of oxidized road bitumens. Izv. AN Turk.SSR. Ser. fiz.-tekh., khim. i geol. nauk no.2:3.-.K '61.   (MIRA 17:8)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.

KOPYLOV, L.F.; KAMYANOV, V.F.; SOLODKOV, V.K.; TOLSTENEV, V.S.

Deasphalting the residues of petroleum from western Turkmenia.
Neftepei. i neftekhim, no.6:20-23 '65.   (MIRA 18:7)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'-
skogo instituta.

MOISEYKOV, S.F.; SAM'YANOV, V.F.; SOLODKOV, V.K.; TOLSTENEV, V.S.

Refining and dewaxing deasphaltates from the residue of petroleum of western Turkmenia. Nefteper. i neftekhim. no.7:17-23 '65.
(MIRA 18:12)

1. Turkmenskiy filial Vsesoyuznogo neftegazovogo nauchno-issledovatel'skogo instituta.

SOLODKOV, Yu.

Protection of covering.   Grazhd. av. 17 no. 11:18 N '60.
                                                    (MIRA 13:12)

1. Nachal'nik uchastka lineyno-ekspluatatsionnoy i remontnoy
masterskoy, Sverdlovsk.
                    (Airplanes--Fuselage)

SOLODKOV, Yu.

Each specialist has his own course. Grazhd. av. 21 no.11:27
N '64.   (MIRA 18:3)

1. Glavnyy inzh. lineynoy ekspluatatsionno-remontnoy masterskoy,
Sverdlovsk.

SOLODKOVA, I.I.

Evolution of chemical and mineralogical composition of sandstones.

Report to be submitted for the Chemistry of the Earth Crust, Geochemical
Conference, Moscow, USSR, 14-19 Mar 63

Q-7

USSR / Farm Animals. Honeybee.

Abs Jour   : Ref Zhur - Biol., No 14, 1958, No 64578

Author   : Solodkova, N. A.
Inst   : Ukrainian Experimental Station of Apiculture
Title   : A Comparative Evaluation of the Methods of the Mass Breeding
             of Queens.

Orig Pub   : Sb. nauchn. tr. Ukr. opytn. st. pchelovodstva, 1957, vyp. 1,
             15-25

Abstract   : Three methods were compared experimentally, namely: Shishikin
             method (I), following which, during one season divided into
             two cycles, 480 larvae were reared in one colony; the method
             of the Ukrainian Experimental Station (II) according to
             which, by employing a receiving family and a rearing family
             during a season of two cycles, 360 larvae were raised; and
             the usual method (III), a control one (25-30 larvae were
             reared in one family). The percentage of active queen

Card 1/2

56

SOLODKOVA, N.O., kand. sel'khoz. nauk; KHRAMOV, I.M.; BELOZOROVA, E.I.
[Bilozorova, IE.I.]; CHEREDNIKOVA, V.S.; GUBA, P.O.[Huba,P.O.];
BABICH, I.A.[Babych, I.A.], kand. sel'khoz. nauk; BOYKO, A.K.
[Boiko, A.K.], kand. veter. nauk; GONCHARENKO, F.I.[Honcharenko,
F.I.], kand. biol. nauk; KHRYASHCHEVSKIY, V.M.[Khriashchevs'kyi,
V.M.], red.; CHEREVATSKII, S.A.[Cherevats'kyi, S.A.], tekhn.
red.

[Concise manual for the beekeeper] Korotkyi dovidnyk pasich-
nika. Kyiv, Derzh. vyd-vo sil's'khohospodars'koi lit-ry URSR,
1961. 164 p.   (MIRA 15:1)
            (Bee culture—Handbooks, manuals, etc.)

KAMAYEV, Vladimir Dorofeyevich; SOLODKOVA, S.V., red.; LIBMAN, G.I.,
    red.izd-va; TITOVA, L.L., tekhn.red.

[Capital exports; materials on a course in political economy]
Vyvoz kapitala; materialy k lektsii po kursu politicheskoi eko-
nomii. Moskva, Gos.izd-vo "Vysshaia shkola," 1959. 43 p.
                                        (MIRA 13:4)

    (Investments, Foreign)

SOLODKOVA, Serafima Vasil'yevna; NOVIKOVA, I.Ye., red.; MURASHOVA,
V.A., tekhn. red.

[Economic laws and their use under socialism] Ekonomiche-
skie zakony i ikh ispol'zovanie pri sotsializme. Moskva,
Vysshaia shkola, 1963. 62 p.   (MIRA 16:12)
(Economics)

SOLODKOVA, T. I.

Physical Geography

Dissertation: "Vegetation Belt in the Khamar-Deban Mountain Range." Cand Geog Sci,
Moscow Order of Lenin State U imeni M. V. Lomonosov, 2 Apr 54. (Vechernyaya Moskva
Moscow 18 Mar 54)

SO; SUM 213, 20 Sep 1954

SOLODKOVA, T.I.

Vegetation of glacier regions in the Chon-Kyzyl-Su Valley
(northern slope of the Terskei Ala-Tau). Trudy Otd.geog.i
Tian.fiz.-geog.sta.AN Kir.SSR no.1:95-107 '58. (MIRA 12:2)
          (Chon-Kyzyl-Su Valley--Alpine flora)

SOLODKOVA, T. I.

Belt features of the vegetation of the Khamar-Daban Range.
Uch.zap.Chuv.gos.ped.inst. no.7:60-83 '59. (MIRA 13:9)
(Khamar-Daban Mountains—Phytogeography)

GOROKHOVA, Z.N. [Horokhova, Z.N.]; SOLODKOVA, T.I.

Forest vegetation of the Bukovina Skiba Carpathians and its
rational utilization. Ukr. bot. zhur. 22 no.3:68-73 '65.
(MIRA 18:7)

1. Chernovitskiy gosudarstvennyy universitet, kafedra botaniki.

1. SOLODKOVSKIY, A. M.

2. USSR (600)

4. Machinery - Maintenance and Repair

7. Dispatch service in repair work. Sakh. prom. 27, No. 2, 1953.

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

SOLODKOVSKIY, A.M.

Automation of processes and production control. Sakh.prom.29 no.7:
23-28 '55.
(MLRA:9:1)

1.Karabaltinskiy sakharnyy zavod.
(Sugar industry--Equipment and supplies) (Automatic control)

SOLODKOVSKIY, A.M.

Removal of dirt cake from vacuum-filter drums by blowing with water – steam – air mixtures. Sakh.prom. 34 no.1:28 Ja '60. (MIRA 13:5)

1. Karabaltinskiy sakharnyy zavod.
   (Sugar manufacture) (Filters and filtration)

SOLODKOVSKIY, A.M.

Storage of beets at the Kara-Balty Factory. Sakh.prom.
34 no.8:26-27 Ag '60.   (MIRA 13:8)

1. Karabaltinskiy sakharnyy zavod.
        (Kara-Balty--Sugar beets--Storage)

SOLODNIKOV, B. A.

New methods for the prevention and extinction of underground
fires. Bezop. truda v prom. 6 no.9:5-8 S '62.
(MIRA 16:4)

1. Nachal'nik Voyenizirovannoy gornospasatel'noy chasti
Podmoskovnogo ugol'nogo basseyna.

(Moscow Basin—Mine fires)

LOZINOV, L. Z., SOLOVNIKOV, F. YE.

Currants

"Planting times of current shoots." Sad i og. no. 8, 1952.

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

ATABEKOV, G.I.; BASHARIN, A.V.; BOGORODITSKIY, N.P.; BULGAKOV, K.V.;
    VASIL'YEV, D.V.; YEGIATAROV, I.V.; YERMOLIN, N.F.; KOSTENKO, M.I.;
    MATKHANOV, P.N.; NOVASH, V.I.; NORNEVSKIY, B.I.; RUTSKIY, A.I.;
    RYZHOV, P.I.; SOLOV'YEV, 1.I.; SOLODNIKOV, G.S.; SLEPYAN, Ya.Yu.;
    SMUROVA, N.V.; TINYAKOV, V.A.; FATEYEV, A.V.; FEDOSEYEV, A.M.;
    SHABADASH B.I.; SHCHEDRIN, N.N.

Viktor Ivanovich Ivanov, 1900-1964; obituary. Izv. vys. ucheb.
zav.; energ. 8 no.1:122-123 Ja '65.

                                      (MIRA 18:2)

ACCESSION NR: AP4033106   S/0120/64/000/002/0050/0057

AUTHOR: Akopyan, G. S.; Dayon, M. I.; Knyazev, V. M.; Solodnikov, I. N.

TITLE: Investigation of spark chambers with a large memory

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 50-57

TOPIC TAGS: spark chamber, spark chamber telescope, Nor-Amberd telescope, air spark chamber, air argon alcohol spark chamber

ABSTRACT: A three-flat-chamber telescope installed in Nor-Amberd (Armenia) at 2,000 m altitude is described. To reduce the error in determining trajectory, one electrode in each chamber is subdivided into 5 separate glass plates covered with SnO_2 and electrically independent. Deviations of the spark from the particle path are evaluated; h-v pulse delays of 2 and 30 microsec and clearing fields of 100 v/cm are considered. The effect of over-voltages on the accuracy of path localization was experimentally studied. These conclusions are offered: (1) In, the chambers filled with the air-argon-alcohol-vapor mixture, the mean-square deviation of the spark from the particle path is about 0.2 mm; it does not vary with the h-v pulse delay up to at least 30 microsec; (2) The open-air chambers have a lower accuracy of path localization; this accuracy essentially improves

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ACCESSION NR: AP4033106

with a higher efficiency; the mean-square deviation may be as high as 0.6 mm;
(3) In the large-memory chambers, most spark deviations have a low value; still,
a large number of sparks occur outside the trajectory; several rows of chambers
should be used to exclude the latter case. "The authors are deeply grateful to
A. I. Alikhanyan for his interest and help in carrying out this project; to M. M.
Veremeyev for designing and building the mechanical part of the outfit; to V. Kh.
Voly*nskiy and L. F. Klimanova for their participation in the initial phase of the
project; to V. N. Bolotov, M. I. Devishev, and A. P. Shmeleva for their part in
data processing and discussions; to G. A. Marikyan, K. Matevosyan, R.
Yerendzhakyan, V. A. Mishchenkov, and also to the service personnel of the
station for their great assistance in carrying out the project." Orig. art. has:
7 figures, 4 formulas, and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva AN SSSR (Institute of
Physics, AN SSSR); Fizicheskiy institut GKAE SSSR (Institute of Physics, GKAE
SSSR)

SUBMITTED: 29Mar63   DATE ACQ: 11May64   ENCL: 00
SUB CODE: NS, PH   NO REF SOV: 003   OTHER: 002

Card 2/2

SOLODNIKOV, I.I.

    Using vinyl plastic pipes in supplying gas to apartment houses.
Gaz. prom. 8 no.8:13-15 '63.   (MIRA 17:11)

SOLODNIKOV, R.F.

Gritti-Shimanovskii operation in osteomyelitis and severe injury of the shin. Klin.khir. no.12:64 D '62.   (MIRA 16:2)

1. Khirurgicheskoye otdeleniye uchastkovoy bol'nitsy Vinnitskoy oblasti.
        (OSTEOMYELITIS)   (AMPUTATIONS OF LEG)

BABAK, V.K.; SOLODNIKOV, V.A.

Effectiveness of flotation recovery of copper and cobalt from magnetites of the Vysokogorskiy deposit. Gor. zhur. no.1:72-74
Ja '64.

(MIRA 17:3)

1. Ural'skiy nauchno-issledovatel'skiy i proyektnyy institut obogashcheniya i mekhanicheskoy obrabotki poleznykh iskopayemykh, Sverdlovsk.

SOLODNIKOV, V.P. (Perm')

Operating model of a steam engine by M.Nazukin. Vop.ist.est.i
tekh.   no.8:158-161   '59.   (MIRA 13:5)
                (Steam engines--Models)

KUKHARCHUK, N.N., inzh.; SHPEKTOROV, Yu.Z., inzh.; BOGDANYUK, V.Ye., inzh.; SOLODNIKOVA, G.S., inzh.

Estimating the efficiency of using conveyor haulage in Rozdol sulfur pits. Nauch.zap.Ukrniiproekta no.5:131-138 '61.
(MIRA 15 7)

(Rozdol region--Conveying machinery)

BLYUMBERG, I.; BULOCHNIKOVA, G.; SOLODNIKOVA, N.

Investigating developer consumption in tanks with regard to the
volume of solutions during development and clearing of motion-picture
films. Zhur.prikl.khim. 30 no.7:1016-1021 Jl '57.   (MIRA 10:10)
        (Cinematography--Developing and developers)

SOLDATOVA, V. ., Cand Agri Sci -- (diss) "Comparative study of certain methods for the vegetative hybridization applicable to beets," Kiev, 1960, 21 pp (Ukrainian Academy of Agricultural Sciences)

(KL, 30-60, 110)

SOLODNIKOVA, Ye.A.

Composition of humus in meadow-swamp soils of the ancient delta
of the Syr-Darya. Izv.AN Kazakh.SSR.Ser.bot.i pochv. no.3:
26-30 '58.   (MIRA 13:5)
            (Syr-Darya Valley--Humus)

GRABAROV, P.G.; KSANDOPULO, G.I.; SOLODNIKOVA, Ye.A.; VOYNOVA, T.N.

Using an alcohol flame for determining free potassium in soil
by flame photometry. Izv.AN Kazakh.SSR.Ser.bot.i pochv.   no.2:
60-65 '59.   (MIRA 13:5)
        (Soils--Analysis) (Potassium) (Flame photometry)

GRABAROV, P.G.; SOLODNIKOVA, Ye.A.

Determining the total amount of potassium in soils with
the spirit flame photometer.   Izv.AN Kazakh.SSR.Ser.bot.i
pochv. no.3:44-47 '60.   (MIRA 13:7)
        (Soils--Analysis) (Soils--Potassium content)
                    (Spectrochemistry)

IC

L 24495-66 EWT(m)/EWT(j)/T   IJP(c)   WW/RM
ACC NR: AP6006973   (A)   SOURCE CODE: UR/0190/66/008/002/0207/0212

AUTHORS: Fokina, T. A.; Apukhtina, N. P.; Klebanskiy, A. L.; Nel'son, K. V.;
Solodobnikova, G. S.

ORG: Scientific Research Institute of Synthetic Rubber (Nauchno-issledovatel'skiy
institut sinteticheskogo kauchuka)

TITLE: Ionic telomerization of β,β'-dichlorodiethylformal with various
unsaturated compounds

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 8, no. 2, 1966, 207-212

TOPIC TAGS: catalytic polymerization, organic synthetic process, lead compound

ABSTRACT: Ionic telomerization of β,β'-dichlorodiethylformal (I) with isoprene
(II), with divinyl, and with styrene was investigated by using lead tetrachloride
as a catalyst. Molar ratio of taxogen (II) and telogen (I) was varied from 10:1 to
1:1, respectively. The telomers obtained were colorless viscous resins, except in
the case of styrene, which yielded crystalline powder (m.p. 64C). The course of
reaction and the resulting products were studied by chemical means and by IR
spectroscopy. The reaction was assumed to be a cationic telomerization consisting 2

UDC: 66.095.26

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ACC NR: AP6006973

of iniation, propagation, and termination steps. Of several possible routes, the one selected as most faithfully representing the actual reaction was:

$$CH_2 \Big\langle {OCH_2CH_2Cl \atop OCH_2CH_2Cl} + CH_2=C-CH=CH_2 \xrightarrow{SnCl_4}$$

$$\rightarrow ClCH_2CH_2OCH_2 - \left[CH_2-C=CH-CH_2 \right]_n - OCH_2CH_2Cl .$$
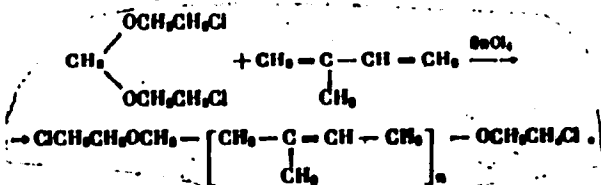
Depending upon the ratio of reagents, telomers with molecular weights from 1000 to 4000 were obtained. Molecular weights were determined by K. A. Karandina. Orig. art. has: 2 tables, 3 figures, and 3 equations.

SUB CODE: 07/ SUBM DATE: 12Feb65/ ORIG REF: 010/ OTH REF: 004

Card 2/2

S/169/63/000/001/035/062
D218/D307

AUTHORS: Fogel'man, N.A., Zorina, V.S. and Solodov, A.A.

TITLE: Data for the development of a method of preparing prognostic charts for the gold-bearing region of East Transbaykal

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 1, 1963, 6, abstract 1D33 (Tr. Tsentr. i.-i. gornorazved. in-ta, 1961, no. 44, 20-23)

TEXT: In order to rationalize prospecting operations, it was necessary to prepare prognostic charts for the main gold bearing region of East Transbaykal, showing regularities in the distribution of major gold concentrations. The following principles and geological gold prognostic charts are suggested for the preparation of such charts: 1) direct reconstruction of empirical data on a specialized geo-structural basis, showing the relationship between gold deposits and various local geostructural elements, i.e. the reconstruction of ore-controlling factors for the given region; 2) utilization of

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D218/D307

Data for the development ...

exploration data collected over many years for the existing gold deposits in the given region and any regularities concerning the localization of ores with respect to the local geological structure; 3) knowledge of leading most promising types of gold depositions of the early Kimmeridge and Laramie metallogenic periods (baleyan and darasunyan) / Abstracter's note: Names unknown_/ and the necessity of assessing new types of deposits which are present in other regions and are industrially important; 4) relation of the deposits to definite types of magnetic formations; 5) structural localization regularities of deposits: (a) ore-controlling significance of tectonic dislocations and jointing zones which reflect discontinuities in plutonic structural stages; (b) regional development of 'transverse' ore-controlling jointing zones which determine the structural position of industrial ore fields and promising regions; (c) effect of block tectonics on the distribution of various types of hydrothermal mineralization which may serve as a basis for detailed metallogenic regional classification; (d) relation of Laramian volcanism and mineralization with subsidence blocks – upper

Card 2/3

Data for the development ...

S/169/63/000/001/035/062
D218/D307

Mesozoic tectonic depressions and transverse fractures; (e) possible screening effect of structural elements on the localization of baleyan-type gold deposits in the Lower Chalk depressions. In setting up gold prognostic charts, it is necessary to carry out special field studies, including composite geophysical methods. /Abstracter's note: Complete translation/

)

Card 3/3

SOLODOV, A.A.

Analyzing the operation of wells equipped with hydraulic piston pumps in the Oil Field Administration of the Al'keyevo Oil Trust. Nefteprom. delo no.3:16-20 '65.

(MIRA 18:10)

1. Neftepromyslovoye upravleniye "Al'keyevneft'".

SOLODOV, A.I., inzh.; SHKOROPAD, D.Ye., kand.tekhn.nauk

Hydrodynamic characteristics of a centrifugal extractor.
Khim. mash. no.6:17-21 N-D '61.   (MIRA 15:2)
                    (Extraction apparatus)
                    (Hydrodynamics)

SOLODOV, A.M., aspirant

Using gunite for strengthening underground structures.
Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh.
no.47:181-201 '63.
(MIRA 17:6)

ISACHENKO, Viktor Pavlovich; SOLODOV, A.P., red.;

[Convective heat exchange in a single-phase medium] Kon-
vektivnyi teploobmen v odnofaznoi srede; konspekt lektsii.
Red. A.P.Solodov. Moskva, Mosk. energ. in-t, 1962. 151 p.
(MIRA 16:6)

(Heat--Convection)

SOLOLOV, A.P., inzh.; ISACHENKO, V.P., kand. tekhn. nauk

Study of heat emission during the condensation of steam
on finely corrugated pipes. Trudy MEI no.63:85-96 '65.
(MIRA 18:12)

GRISHIN, V., kand. tekhn. nauk; SOLODOV, A.P., inzh., TOUNAKOV SHIN, M.A.

Study of heat emission during the condensation of water vapor in vertical pipes. Trudy MEI no.63:97-106 '65. (MIRA 18:12)

SOLODOV, A.P., inzh.; ISACHENKO, V.P., kand. tekhn. nauk

Some special features of dropwise condensation.   Trudy
MEI no.63:121-140 '65.   (MIRA 18:12)

MARTYNOVA, O.I., doktor tekhn. nauk; ISACHENKO, V.P., kand. tekhn. nauk; SOLODOV, A.P., inzn.

Methods of waterproofing a heat exchange surface for obtaining dropwise condensation of steam. Trudy MEI no.63:107-116 '65.
(MIRA 18:12)

30209
S/081/61/000/019/036/085
B110/B138

5.3610

AUTHORS: Kozlov, L. M., Burmistrov, V. I., Solodov, A. V.

TITLE: Synthesis of chlorine ethers of nitro alcohols

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 19, 1961, 152, abstract
                19Zh75 (Tr. Kazansk. khim.-tekhnol. in-ta, no. 29, 1960, 18-19)

TEXT: $RR'C(NO)_2CR''R'''OCH(CH_2OH)CH_2Cl$ (II) is formed by epichlorohydrine
(I) with nitro alcohols (molar ratio 3:1) in the presence of H_2SO_4. The
following data are presented: R, R', R'', R''', reaction temperature in $^{\circ}C$,
reaction time, yield of II in %, boiling temperature in $^{\circ}C$/mm Hg, n_D^{20}, d_4^{20}:
H, H, H, H, 5, 2, 68, 144/3, 1.4710, 1.2591; CH_3, H, H, H, 5, 2, 60,
138/3, 1.4656, 1.3000; C_2H_5, H, H, H, 70, 2, 22, 151/3, 1.4652, 1.2365;
H, H, H, C_2H_5, 90, 3, 18, 133/2; 1.4683, 1.2306; H, H, H, CH_3, 70, 2, 24,
125/4, 1.4670, 1.2920; H, H, CH_3, CH_3 (molar ratio 2:1), 100, 4, 10,

Card 1/2

30208

Synthesis of chlorine ethers of...

S/081/61/000/019/036/085
B110/B138

128/5, 1.4708, 1.2390. Primary alcohols react with I more readily than secondary ones. Tertiary alcohols react less readily. Reactivity decreases as the molecular weight increases. II are good solvents for alkydal resins. [Abstracter's note: Complete translation.]

X

Card 2/2

KOZLOV, L.M.; BURMISTROV, V.I.; SOLODOV, A.V.

Synthesis of nitroalkyl ethers of propylene glycol. Trudy KKHTI
no.30:96-100 '62.   (MIRA 16:10)

KUCHIN, G.P., inzh.; SOLODOV, D.F., inzh.

New materials for fine filtration of oil. Energomashinostroenie
11 no.7:32-33 Jl '65.   (MIRA 18:7)

SOLODOV, I.

 Review the expenditure norms for the sanatoriums of the All-Union
Central Council of Trade Unions. Fin.SSSR 37 no.3:76 Mr '63.
               (MIRA 16:4)
 1. Starshiy inspektor po shtatam Oktyabr'skogo rayonnogo
finansovogo otdela Odessy.
       (Odessa—Sanatoriums—Finance)

SOLODOV, I.P. (Odessa)

First results of the operations of consolidated clothing factories. Shvein. prom. no.1:24-25 Ja-F '63.
(MIRA 16:4)

(Odessa—Clothing industry)

BREZGULEVSKIY, I.V., inzh.; SOLODOV, K.G., inzh.; KANAFIN, K., inzh.

New mining system used in the Dzheskazgan Mines. Bezop.
truda v prom. 3 no.12:13-15 D '59.   (MIRA 13:4)
(Dzhezkazgan District--Copper mines and mining)

: VESHCHAYA ____ AVA, JA___ Y-DECEMBER 1952

SOLODOV, M.D., kandidat tekhnicheskikh nauk, dotsent.

Investigation of spindle-tail spindle pressure relations on lathes
and multicut machine tools. [Trudy] MVTU no.44:174-188 '55.
(Machine tools)   (MIRA 9:6)

PHASE I BOOK EXPLOITATION   SOV/3749

Moscow. Vysshaye tekhnicheskoye uchilishche imeni Bauman

Voprosy tochnosti v mashinostroyenii; [sbornik] Problems of Accuracy in Machine Building; Collection of Articles) Moscow Mashgiz, 1960. 159 p. Errata slip inserted. 5,000 copies printed.

Ed.: V.M. Kovan, Doctor of Technical Sciences, Professor; Ed. of Publishing House: O.I. Baytalov; Tech. Ed.: A.Ya. Tikhonov; Managing Ed. for Literature on Metalworking and Tool Making (Mashgiz): V.V. Ruzavinskiy, Engineer.

PURPOSE: This book is intended for the technical personnel of machine-building plants. It may also be useful to process engineers and scientific workers doing research on the accuracy of machined parts.

COVERAGE: In this collection of articles faculty members of the Moscow Higher Technical School imeni Bauman (MVTU) discuss methods of calculating errors connected with setting up workpieces in machine tools. The extent of errors in fastening blanks in three-jaw self-centering chucks is also reviewed. Methods of calculating probable inaccuracies in machined parts and magnitude of errors in centerless grinding are discussed. The effect of machinability of cutting forces on the accuracy of machining, and factors affecting the accuracy of conjugation of precision plunger pairs are discussed. No personalities are mentioned. References follow some of the articles.

TABLE OF CONTENTS:

AVAILABLE: Library of Congress

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WR/rm/gw
8-3-60

SOKOLOV, M. I. and SMIRNOV, V. A.

Kholodnaia obrabotka stekla; posobie dlia rabochikh-optikov. Moskva, Mashgiz, 1949-
130 p. illus.

Bibliography: p. (128)

Cold treatment of optical glass; manual for workers in optics.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress,
     1953.

SOLODOV, N.

Competition for better preparation for spring planting. Sov.
profsoiuzy 2 no.3:44-45 Mr '54.   (MLRA 7:2)

1. Zaveduyushchiy otdelom proizvodstvenno-massovoy raboty Chkalov-
skogo oblastnogo soveta profsoyuzov.
                     (Socialist competition) (Sowing)

3(8)

AUTHOR: Solodov, N. A.   SOV/7-58-8-6/8

TITLE: On the Distribution of Rare Elements in Minerals of Rare-
             Metal Granite Pegmatites (O raspredelenii redkikh elementov
             v mineralakh redkometal'nykh granitnykh pegmatitov)

PERIODICAL: Geokhimiya, 1958, Nr 8, pp 749 - 756 (USSR)

ABSTRACT: The distribution of rare elements in the minerals albite,
             microcline, and quartz, as well as turmaline, muscovite,
             beryl, pollucite, lepidolite, spodumene, garnet, apatite,
             and clevelandite of two pegmatite veins was examined.
             Lithium by L. D. Sazhina(Table 1), caesium by Z. T. Kataye-
             va and N. V. Lizunov (Table 2), rubidium by L. D. Sazhina,
             tantalum and niobium were determined in the first vein
             (Kol'skiy poluostrov). In the second vein (Mongol'skiy
             Altay) beryllium was determined by S. N. Fedorchuk
             (Tables 4 and 5). The dispersion of the rare elements was
             investigated. The average content of the rock-forming
             minerals is 0.0003% Nb and Ta, 0.0009% Be, 0.018% Li,
Card 1/2   0.107% Cs, and 0.64% Rb. The reasons for this dispersion

On the Distribution of Rare Elements in Minerals of   SOV/7-58-8-6/8
Rare-Metal Granite Pegmatites

                 are discussed. There are 6 tables and 5 references, 3 of
                 which are Soviet.

ASSOCIATION: Institut mineralogii, geokhimii i kristallokhimii redkikh
                 elementov AN SSSR, Moskva (Institute of Mineralogy, Geo-
                 chemistry and Crystallo-Chemistry of Rare Elements, AS USSR,
                 Moscow)

SUBMITTED: May 10, 1958

Card 2/2

SOV/7-59-4-3/9

3(8)
AUTHOR: Solodov, N. A.

TITLE: Some Rules in the Distribution of Rare Elements in Distinctly Zonal Granite Pegmatites (Nekotoryye zakonomernosti raspredeleniya redkikh elementov v otchetlivo zonal'nykh granitnykh pegmatitakh)

PERIODICAL: Geokhimiya, 1959, Nr 4, pp 316 - 327 (USSR)

ABSTRACT: For eight years the author investigated granite pegmatites in Altay and Kola peninsula and found a number of empiric rules in the distribution of rare elements. The contents on BeO, Nb_2O_5, Ta_2O_5, Li_2O, Rb_2O and Cs_2O were investigated (Table). These elements are essentially bound to the albite zones, less to the mica zones. The contents of the microcline zones are quite negligible, only beryl sometimes occurs. The rubidium and cesium contents of microcline were determined on material of A. F. Sosedko by T. F. Borovik-Romanova (GEOKhI AN SSSR) (GEOKhI AS USSR), rubidium partly by L. I. Sazhina (IMGRE AN SSSR) (IMGRE AS USSR) on the author's material (Table 3). Diagrams illustrate the distribution of the rare elements from the salband to the center of the

Card 1/2

S/015/60/000/009/001/005
A052/A129

AUTHOR: Solodov, N. A.

TITLE: Concerning the geochemistry of the rare-metal granitic pegmatites

PERIODICAL: Referativnyy zhurnal.Geologiya, 1960, no. 9, 175, abstract 16949
               (Geokhimiya, 1959, no. 7, 628 - 637, English summary)

TEXT: Among the rare-metal granitic pegmatites of the Altai and Kola penin-
sula 4 principal types stand out: microclinic, albite-microclinic, albitic, al-
bite-spodumenic. The LiO content increases regularly from several hundredths of
percent in microclinic pegmatites to 1.4 - 1.5% in albite-spodumenic ones. The
maximum Rb_2O and Cs_2O content is observed in albite-microclinic pegmatites, reach-
ing in some veins 0.70 and 0.45%, respectively. Towards albite-spodumenic pegma-
tites the Rb_2O content drops to 0.12% and Cs_2O content to 0.004%. The relation
K:Rb increases at the same time from 5 - 10 to 13 - 17, the relation K:Cs from
7 to 500, the relation Rb:Cs correspondingly from 1.6 to 32. The highest BeO con-
tent (0.10 - 0.20%) is characteristic for albite pegmatites. Therefrom it decreases
to both sides to 0.035 - 0.012% in albite-spodumenic and to 0.005 - 0.010% in
microclinic pegmatites. The Nb_2O_5 content in albite-microclinic, albitic and

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Concerning the geochemistry of the rare-metal ...

albite-spodumenic pegmatites is about equal and makes up $\sim$0.010 - 0.015%. The Ta_2O_5 content, however, decreases distinctly from 0.025 - 0.010% in albite-microclinic pegmatites to 0.010 - 0.004% in albite-spodumenic pegmatites. Consequently the relation Ta_2O_5 : Nb_2O_5 also decreases in this direction from 3 - 0.9 to 0.8 - 0.4. The content of rare elements in well-developed veins of the same type fluctuates usually within rather narrow limits. The formation of different types of pegmatites and the different degree of concentration of alkaline and rare elements in them are explained by a pronounced geochemical nature of pegmatite fusions. At first specifically potassic pegmatites fusions, to a great extent poor in rare elements, emanate from magmatic sources. Afterwards potassium- sodium portions rich in Ta, Cs, Rb and partly Be are separated. Later on specifically sodium fusion-solutions enriched with Be and to some degree with Ta and Nb split off.

L. P. Solodova.

[Abstracter's note: Complete translation]

Card 2/2

SOLODOV, N.A.

Distribution of alkaline elements and beryllium in minerals of one of the zonal pegmatite bodies of the Mongolian Altai. Geokhimiia no.8:726-735 '60. (MIRA 14:1)

1. Institute of Mineralogy, Geochemistry and Crystal Chemistry, of Rare Elements, Academy of Sciences, U.S.S.R., Moscow.
(Mongolian Altai--Pegmatites)   (Alkali metals)
(Beryllium)

SOLODOV, N.A.

Main commercial types of rare-metal pegmatites. Trudy IMGRE (MIRA 15:7)
no.5:43-79 '61.   (Pegmatites—Classification)

SOLODOV, Nikolay Alekseyevich; VLASOV, K.A., glav. red.; GERASIMOVSKIY, V.I., doktor geol.-miner. nauk, otv. red.; PERSHINA, Ye.G., red. izd-va; SHEVCHENKO, G.N., tekhn. red.; RYLINA, Yu.V., tekhn. red.

[Internal structure and geochemistry of rare-metal granite pegmatites]Vnutrennee stroenie i geokhimiia redkometal'nykh granitnykh pegmatitov. Moskva, Izd-vo Akad. nauk SSSR, 1962.
233 p.   (MIRA 16:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Vlasov).
                     (Pegmatites)

SOLODOV, N.A.

Distribution of thallium in minerals along the thickness of
zonal pegmatites. Geokhimiia no.7:635-637 '62. (MIRA 15:7)

1. Institut mineralogii, geokhimii i kristallokhimii redkikh
elementov AN SSSR, Moskva.
                (Thallium)   (Pegmatites)

SOLODOV, N.A.

Zoning in rare-metal granite pegmatites. Trudy IMGRE no.8:20- (MIRA 16:1)
84 '62.
    (Pegmatites)   (Metals, Rare and minor)

KOGAN, B.I.; KAL'ZHANOVA, Ye.G.; SAL'TINA, L.V.; SOLODOV, N.A.;
DMITRIYEVA, O.P.; Prinimali uchastiye: UKHANOVA, N.I.;
PERVUKHINA, A.Ye.; KAZANTSEVA, V.G.; ULANOVSKAYA, V.D.;
VLASOV, K.A., glav. red.; LIZUNOV, N.V., otv. red.;
PYATENKO, Yu.A., otv. red.; SALTYKOVA, V.S., otv. red.;
SLEPNEV, Yu.S., otv. red.; FABRIKOVA, Ye.A., otv. red.
PODOSEK, V.A., red. izd-va; GOLUB', S.I., tekhn. red.

[Rare alkali metals (lithium, rubidium, and sesium); a
bibliography on their geochemistry, mineralogy, crystal
chemistry, geology, the analytic methods of their determi-
nation, and their economics]Redkie shchelochnye metally (litii,
rubidii i tsezii); bibliografiia po geokhimii, mineralogii,
kristallokhimii, geologii, analiticheskim metodam opredeleniia
i ekonomike. Sost. B.I.Kogan i dr. Moskva, Izd-vo Akad. nauk
SSSR, 1962. 327 p.   (MIRA 16:2)

1. Akademiya nauk SSSR. Institut mineralogii, geokhimii i kri-
stallokhimii redkikh elementov. 2. Chlen-korrespondent Akademii
nauk SSSR (for Vlasov).
                    (Bibliography--Alkali metals)

SOLODOV, N.A.

    Albitite pegmatites and their genesis. Trudy Min.mus. no.13:108-
    127 '62.   (MIRA 16:2)
         (Pegmatites)   (Albitite)

GULYAYEVA, L.A., doktor geol.-miner. nauk, otv. red.; SOLOLOV,
N.A., red.

[Trace elements in caustobioliths and sedimentary rocks]
Mikroelementy v kaustobiolitakh i osadochnykh porodakh.
Moskva, Nauka, 1965. 126 p.   (MIRA 18:8)

1. Moscow. Institut geologii i razrabotki goryuchikh
iskopayemykh.

TEODOROVICH, G.I., doktor geol.-miner. nauk, otv. red.; SOLODOV,
N.A., red.

[General principles of the formation of the bituminous
series based on the example of the Volga-Ural province]
Obshchie printsipy formirovaniia bituminoznykh svit na
primere Volgo-Ural'skoi provintsii. Moskva, Nauka, 1965.
201 p.   (MIRA 18:9)

1. Moscow. Institut geologii i razrabotki goryuchikh isko-
payemykh.

BELYAEV, N.A.

Relationship between the potentials of the ionization of elements
and the concentration necessary for the formation of their own
minerals. Dokl. AN SSSR 165 no.1:190-193 N '65.

(MIRA 18:10)

1. Institut mineralogii, geokhimii i kristallokhimii r with
metallov. Submitted March 1, 1965.

ACCESSION NR: AP5014974   UR/0228/64/000/007/0025/0025

AUTHOR: Kvizanishvili, I. G. (Candidate of technical sciences); Solodov, P.V.
(Engineer)

TITLE: Non-burning acid-resistant slabs from the wastes of andesite mining

SOURCE: Stroitel'nyye materialy, no. 7, 1964, 25

TOPIC TAGS: structural mineral product

Translation: Investigations conducted at the Tbilisi Scientific-Research
Institute of Construction Mechanics, NIISMe, established the possibility
of obtaining non-burning acid-resistant slabs from the wastes of andesite
mining from the Bakuriansk deposits. Liquid sodium glass is the binder;
sodium silicon fluoride is the hardening accelerator. The compositions
of the molded mass (in %); ground andesite -- 76.2%; liquid sodium glass
-- 20.0; sodium silicon fluoride -- 3.8; pressing pressure -- 250 kg/cm²;
drying time -- 6 days in air, artificially at 160°C -- 3 hours.

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ACCESSION NR: AP5014974
    The slabs obtained in this manner are acid-, water-, and heat-resistant. After 30 days immersion in equal concentrations of hydrochloric and sulfuric acids, the specimens increase in compression strength to 376 kg/cm². The slabs withstand 20 heat cycles according to state standard GOST 473-53 without any external defects; their water absorption is 9.7%.
    The following technological scheme for producing such slabs is recommended. Filler -- ground andesite and sodium silicon fluoride, passed through a sieve with 64 holes/cm² -- is fed to the mixer in a dry form initially but later as a wet mixture, where the dissolved glass is added. After mixing, the mass is measured out by weight into the press mold; after 3 hours from the moment of fastening it becomes hard and is unsuitable for forming slabs. The pressed slabs are placed on frames for natural drying in a closed area for a specific period and then dried artificially.

ASSOCIATION: none

SUBMITTED: 00   ENCL: 00   SUB CODE: MT
NO REF SOV: 000   OTHER: 000   JPR:

Card 2/2

Cracking sulfurous fuel oil in presence of zinc chloride K. A. Musatov and S. N. Sokolov, *Neftyanoe Khoz.* 18, No. 11, 32-4 (1937); *Chimie & industrie* 40, 667 S.- ZnCl$_2$ permits the cracking of heavy petroleum hydrocarbons contg. considerable proportions of sulfurous compds. The intensity of cracking is max. at 320-75, i.e., near the m. p. of pure anhyd. ZnCl$_2$. Under these conditions the boiler fuel oil yields distillates containing more than 10% of aromatics and only a small proportion of unsatd. hydrocarbons. On the whole, catalytic cracking of sulfurous fuel oils gives, according to the time of reaction, from 29 to 50% of fractions corresponding to motor spirit and kerosene, with a degree of desulfurization, relative to the fuel oil, of 60-70%. — A. Papineau-Couture

METALLURGICAL LITERATURE CLASSIFICATION

Vapor phase refining of cracked gasoline. (Improved method) with solid zinc chloride on pumice stone. A. I. Glushkov, S. N. Sokolov and M. N. Sharanov. Neftyanoe Khoz. 1938, No. 6, 31-5. The samples preliminarily treated with 5 lb. NaOH, passed through the ZnCl₂ unit in the vapor phase, yielded a gasoline with a higher induction period and lower acidity (the latter being neutralized by washing with waters), a lower initial content of actual gums and a greater yield of low-boiling fractions, than gasoline which was not treated with NaOH. The stability of the gasolines is higher than of those which were not treated with ZnCl₂, even in the absence of inhibitors. These gasolines have an increased content of light fractions, and this phenomenon is being further investigated. It is intended to replace pumice stone with a cheaper carrier. Catalyst consumption 0.3%. Alpha naphthol and wood tar inhibitors also were used. The expts. are described in detail.   A. A. Boshtilingk

ASM-SLA   METALLURGICAL LITERATURE CLASSIFICATION

GERASIMOV, N. M., MASHKOV, V. Ye., SOLODOV, S. N.

"Zinc Chloride Rectification of the Cracking Distillates of Shale Tar," Iz. Ak. Nauk SSSR, Otdel, Tekh. Nauk, No. 5, 1940.

FDD Report U-1530, 25 Oct 1951

SOLODOVA IN   220

1. SOLODOV, S. M., TSYBA, A. N.

2. USSR   (600)

"Regeneration of the Zinc Chloride Carrier During the Refining of Benzene Produced by Cracking at Dubrovaya," Iz. Ak. Nauk SSSR, Otdel, Tekh. Nauk, No. 5, 1941. Institute of Mineral Fuels, Academy of Sciences USSR Submitted 1 Jan 1941.

9. ▰ Report U-1930, 25 Oct 1951.

SOLODOV, S. N., VINOGRADOV, O. V. and PANYUTIN, P. S.

"Refining Fergana Oils," Neft. khoz., 24, No.2, pp. 44-52, 1946

SOLODOV, S.N.

SOLODOV, S.N.

Antifrizy. Moskva, Voenizdat, 1947.

Title tr.: Antifreeze mixtures.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of
    Congress, 1955.

S/137/61/000/005/058/060
A006/A106

AUTHORS: Polyakov, A. I., and Solodov, S. N.

TITLE: Corrosion protection of steel and aluminum alloy by a volatile
inhibitor such as benzoatmonoethanolamine

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 5, 1961, 61, abstract 5I460
("Uch. zap. Mosk. gos. ped. in-ta im. V. I. Lenina", 1960, no. 146,
206-210)

TEXT: The authors analyze the effect of a volatile inhibitor, such as
benzoatmonoethanolamine (BMEA compound) on "50" steel, chrome-plated, parkerized,
oxidized and 450 (4B0)-color painted steels, and on A16-T (D16-T) Al-alloy. The
BMEA is an effective volatile inhibitor of anodic effect against atmospheric
corrosion of steel and steel with protective coatings. With respect to D16-T
Al-alloy, the BMEA does not act as an inhibitor. There are 9 references.

Ye. L.

[Abstracter's note: Complete translation]

Card 1/1

16(1)

AUTHOR: Solodov, V. M.

SOV/20-127-4-6/60

TITLE: Computation of Repeated Integrals

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 753-756 (USSR)

ABSTRACT: Let $f(x_1, \ldots, x_s)$ be periodic in every variable with the period and let it be developable into an absolutely convergent Fourier series:

$$f(x_1, \ldots, x_s) = \sum_{m_1, m_2, \ldots, m_s = -\infty}^{\infty} C(m_1, \ldots, m_s) \exp\left[2\pi i(m_1 x_1 + \ldots + m_s x_s)\right]$$

$$\sigma = \sum_{-\infty}^{\infty} |C(m_1, \ldots, m_s)|.$$

Let $S_r(x_1, \ldots, x_s) = \sum_{\nu < r^2} \left(1 - \frac{\nu}{r^2}\right)^3 C(m_1, \ldots, m_s) \exp\left[2\pi i(m_1 x_1 + \ldots + m_s x_s)\right]$,

where $\nu = m_1^2 + \ldots + m_s^2$. Let $N > s$ be a prime number. Let the point M_n have the coordinates $M_n = \left(\frac{n}{N}, \frac{n^2}{N}, \ldots, \frac{n^s}{N}\right)$, $n = 1, 2, \ldots, n$

Theorem: If for $f(x_1, \ldots, x_s)$ there holds the Lipschitz condition

Card 1/2

Computation of Repeated Integrals   SOV/20-127-4-6,6.

$$\left| f(x_1, \ldots, x_s) - f(x_1', \ldots, x_s') \right| \le C_3^\alpha \text{ for } \sum_{i=1}^{s} (x_i - x_i')^2 \le \varrho^2, \ \alpha \le 1.$$

then it holds

$$D = \left| \int_0^1 \cdots \int_0^1 f(x_1, \ldots, x_s) dx_1 \cdots dx_s - \frac{1}{N} \sum_{n=1}^{N} f(M_n) \right| \le \frac{(s-1)\sigma}{\sqrt{N}} + \frac{CA}{N^\alpha},$$

where A depends only on s.

Theorem: From $\left| \frac{\partial f}{\partial x_i} \right| < B$ there follows: $D \le \frac{(s-1)\sigma}{\sqrt{N}} + \frac{A_1 B}{N}$.

Two further similar estimations are contained in the next two theorems. For the arrangement of the given formulas the author uses methods of N.M.Korobov / Ref 1_/.
There are 5 references, 2 of which are Soviet, 2 American, and 2 Chinese.

PRESENTED: June 25, 1959, by I.M.Vinogradov, Academician
SUBMITTED: April 13, 1959

Card 2/2

AUTHOR: Solodov, V. M.

TITLE: The error of numerical integration

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 2, 1963, 284-287

TEXT: The two quadrature formulas

$$\int_0^1 \dots \int_0^1 f(x_1, \dots, x_s)\, dx_1 \dots dx_s - \frac{1}{p} \sum_{k=1}^{\nu} f\left(\frac{1}{p}k, \frac{a}{p}k, \dots, \frac{a^{s-1}}{p}k\right) = R,$$ (a)

with $|R| \leqslant c(\alpha, \alpha_1, s) p^{-\alpha}$ and

$$\int_0^1 \dots \int_0^1 f(x_1, \dots, x_{s-1})\, dx_1 \dots dx_{s-1} - \frac{1}{N} \sum_{k=1}^{N} f\left(\frac{a}{p}k, \dots, \frac{a^{s-1}}{p}k\right) = R,$$ (8)

with $|R| \leqslant c_4(\alpha, s)/N$ are derived for an optimum estimation of the error
in the numerical integration of the periodic functions

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The error of numerical integration

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$$f(x_1,\ldots,x_2) = \sum_{m_1,\ldots,m_s=-\infty}^{\infty} c(m_1,\ldots,m_s)\exp\left[2\pi i(m_1 x_1 + \ldots + m_s x_s)\right] \text{ having the}$$

period 1 with respect to every variable occurring. The formula (a) holds for functions $f \in \overline{E}_s^\alpha$ and the formula (8) for functions $f \in E_{s-1}^\alpha$.

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