

DMITREVSKIY, Yu.D.

"Physical geography of the parts of the world" by T.V. Vlasova.  
Reviewed by Yu. D. Dmitrevskii. Izv. AN SSSR. Ser. geog. no.5:179-  
181 S-O 162. (MIRA 15:10)  
(Physical geography) (Vlasova, T.V.)

DMITREVSKIY, Yu.D.

Several problems in the geography of ichthyofauna and fishing  
in African inland waters. Izv. Vses. geog. ob-va 95 no.6:504-  
511 N-D '63. (MIRA 17:1)

DMITREVSKIY, Yu. D.

Africa; an encyclopedic manual. Izv. Vses. geog. ob-va 96 no. 2:  
147-148 Mr-Ap '64. (MIRA 17:5)

KOCHARYAN, G., prof.; BABAYEV, A.G.; DMITREVSKIY, Yu.; SAUSHKIN, Yu.;  
DOMENZI, A.; MIKHALENKO, I.; RAUSH, V.

Bibliography. Geog. v shkole 21 no.5:87-95 S-0 '58.(MIRA 11:10)  
(Bibliography--Geography)

DMITREVSKIY, Yu.

"Soviet geography; achievements and objectives." Reviewed by  
IU. Dmitrevskii. Geog. v shkole 24 no.2:92-93 Mr-Ap '61.  
(MIRA 14:3)

(Geography)

DMITREVSKIY, Yu.

"Geography of the mining industry of capitalist countries" by  
M.S. Rozin. Reviewed by IU. Dmitrevskii. Geog. v shkole 26  
no.2:90 Mr-Apr '63. (MIRA 16:4)

(Mineral industries) (Rozin, M.S.)

DMITRIYEVSKIY, Yu.D. (Vologda)

"Geography of the mining industry in the capitalist world" by  
M.S.Rozin. Reviewed by I.U.D.Dmitrevskii. Prioroda 52 no.3:23  
'63. (MIRA 16:4)  
(Mineral industries) (Rozin, M.S.)

DMITREVSKIY, Yu. D.

Physical geography of parts of the world. Vest. Mosk. un. Ser. 5: Geog.  
19 no. 5: 82-84 S=0 '64. (MIRA 18:1)



DMITRIEVSKIY, Yu.D.

Sudan geography. Izv. Vses. geog. ob-va 96 no.5:441-444  
S-O '64. (MIRA 17:12)

DMITREVSKIY, Yu.D.

Determining the term "irrigation". Izv.Vses. geog. ob-va 96  
no.6:525-526 N-0 '64 (MIRA 18:1)

DMITREWSKI, J.

"Studies on the abrasion of tractor plowshares." p.125, (ROCZNIKI NAUK. SERIA C-MECHANIZACJI, Vol. 66, no. 1, 1953, Warsaw, Poland).

SO: Monthly List of East European Accessions, Library of Congress, Vol 2 no 10 Oct 1953, Uncl.

DMITREWSKI, J.

"Testing harvester cutters," p. 126, (ROCZNIKI NAUK. SERIA C-MECHANIZACJI, Vol. 66, no. 1, 1953, Warsaw, Poland).

SO: Monthly List of East European Accessions, Library of Congress, Vol 2 no10, Oct 1953, Uncl.

DMITREWSKI, J.

"Technical conditions of the acceptance of agricultural implements and machines." p. 127,  
ROCZNIKI NAUK. SERIA C-MECHANIZACJI, Vol. 66, no. 1, 1953, Warsaw, Poland).

SO: Monthly List of East European Accessions, Library of Congress, Vol 2 no 10 Oct 1953, Uncl.

DMITREWSKI, J.

"Supplying the village with farm machinery. p. 198." (ZYCIE GOSPODARCZE,  
Vol. 8, no. 7, Feb. 1953, Warszawa, Poland.)



SO: East European, L. G. Vol. 2, No. 12, Dec. 1953

DMITREWSKI, J.

Careful preservation of machinery. p. 29. (PLON. Vol. 4, no. 11, Nov. 1953.)

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

DMITRI<sup>N</sup>CHENKO, A.S.

Treatment of sweating of the feet with a decoction from oak twigs  
and leaves. Zdrav. Belor. 6 no.3:54 Nr '60. (MIRA 13:5)  
(FOOT--DISEASES) (PERSPIRATION)



DMITRICHENKO, L. M.

Dmitrichenko, L. M. -- "On the Characteristics of Vascular Reactions in Man in Various Functional States of the Cerebral Cortex." Minsk State Medical Inst. Minsk, 1956. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya Letopis', No 12, 1956

DMITRIC, Vojin, dipl. pravnik

Legal aspects of the peaceful use of atomic energy. Nuklear  
energija 1 no.1:28-29 JI '64.

1. Assistant Secretary, Federal Commission for Nuclear Energy.

DMITRIKHENKO, N.S.  
Bcs

*Manufacturing Process  
Journal*

28. Electrical panel control of machinery. — N. S. DMITRIKHENKO (Orenburg, 16, 39, 1951). Notes on the advantages gained by panel control of conveyors and pumps in a Russian plant. (1 fig.)

1. DMITRICHENKO, N. S.; SHAVRINOV, M. A.
2. USSR (600)
4. Sieves
7. Electric heating of sieves for screening ground clay. Ogneupory. 17, No. 9, 1952.

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

POPOV, V.S.; DMITRICHENKO, N.S.

Durability of press mold plates during the press molding of  
magnesite and grog refractories. Ogneupory 27 no.3:127-130  
'62. (MIRA 15:3)

1. Zaporozhskiy mashinostroitel'nyy institut imeni V.Ya.Chubarya  
(for Popov).
2. Zaporozhskiy ogneuporny zavod (for Dmitrichenko).  
(Plates, Iron and steel--Testing) (Firebrick)

POPOV, V. S., kand. tekhn. nauk, dotsent; DMITRICHENKO, N. S.

Improving the wear resistance of die-casting molds for manufacturing refractory articles. Vest. mashinostr. 42 no.10:  
45-48 0 '62. (MIRA 15:10)

(Die casting—Equipment and supplies)

POPOV, V. S.; DMITRICHENKO, N. S.

Wear resistance of certain hard facings and standard steels used for metal dies for operation in an abrasive medium. Izv. vys. ucheb. zav.; chern. met. 7 no.6:139-142 '64. (MIRA 17:7)

1. Zaporozhskiy mashinostroitel'nyy institut i Zaporozhskiy ognepornyy zavod.

POPOV, V.S.; BRYKOV, N.N.; DMITRICHENKO, N.S.

Using white cast iron for the lining of metal dies. Ogneupory  
29 no.4:160-164 '6. (MIRA 17:4)

1. Zaporozhskiy mashinostroitel'nyy institut imeni V.Ya.Chubarya  
(for Popov, Brykov). 2. Zaporozhskiy ogneuporny zavod (for  
Dmitrichenko).



POPOV, V.S.; BRYKOV, N.N.; DMITRICHENKO, N.S.

Investigating the durability of 20Kh steel plates of press-welds.  
Ogneupory 30 no.1:14-17 '65. (MIRA 18:3)

1. Zaporozhskiy mashinostroitel'nyy institut im. V.Ya.Glubarya  
(for Popov, Brykov). 2. Zaporozhskiy ogneuporny zavod (for  
Dmitrichenko).

GOL'FGAT, D.B., kand. tekhn. nauk; OSHNOKOV, V.A., kand. tekhn.nauk;  
DMITRICHENKO, S.S.; BOCHAROV, N.F., kand. tekhn. nauk.

Investigating causes of fractures in DT-54 tractor frames. Mekh. i  
elek. sots. sel'khoz. 16 no.6:17-23 '58. (MIRA 12:1)

1.Soyuznyy nauchno-issledovatel'skiy avtomobil'nyy i avtomotor-  
nyy institut (for Gel'fgat, Oshnokov). 2.Glavnyy inzhener  
Komsomol'skoy mashinno-traktornoy stantsii Taldomskogo rayona  
Moskovskoy oblasti (for Dmitrichenko). 3.Moskovskoye vyssheye  
tekhnicheskoye uchilishche im. Baumana (for Bocharov).  
(Tractors--Testing)

BAKHAREV, A.F.; BOCHAROV, N.F.; GEL'FGAT, D.B.; DMITRICHENKO, S.S.;  
OSHNOKOV, V.A.

Durability of the frames of general purpose caterpillar tractors.  
Trakt. i sel'khoz mash. no.4:4-12 Ap '59.      (MIRA 12:5)  
(Tractors)

DMITRICHENKO, S. S., Candidate Tech Sci (diss) -- "Investigation of the strength of the frames of caterpillar-type tractors with flexible chassis". Moscow, 1959. 18 pp (Min Higher Educ USSR, Moscow Order of Lenin and Order of Labor Red Banner Higher Tech School im N. E. Bauman) (KL, No 26, 1959, 125)

DMITRICHENKO, S.S., kand.tekhn.nauk

Strength analysis of crawler tractor frames with elastic suspension.  
Trakt. i sel'khoz mash. 30 no.11:8-11 N '60. (MIRA 13:12)

1. Nauchno-issledovatel'skiy avtotraktornyy institut.  
(Crawler tractors)

DMITRICHENKO, S.S.; RYZHIKOVA, A.G.

Accelerated testing of machinery abroad. Trakt. i sel'khozmasb.  
31 no. 5:45-46 My '61. (MIRA 14:5)  
(Agricultural machinery--Testing)

DMITRICHENKO, S.S. kand. tekhn. nauk; KUGEL', R.V., kand. tekhn. nauk;  
MAKAROV, N.N., inzh.; NEYCHENKO, V.G., inzh.

Accelerated testing of the strength of tractors on a proving  
ground. Trakt. i sel'khoz mash. 33 no.7:1-5 J1 '63.

(MIRA 16:11)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy  
traktorny institut.

DMITRIKHENKO, S.S.; NERSESIAN, R.V.

Evaluation of the fatigue strength of the components of structures using  
electronic computers. Izv. AN Arm. SSR. Ser. tekhn. nauk 18 no.1:37-42  
'65. (MIRA 18:7)

1. Komissiya po tekhnologii mashinostroyeniya AN Armyanskoy SSR.



DMITRICHENKO, S.S., kand. tekhn. nauk; STARIKOV, V.M., inzh.; VIGDORCHIK,  
V.M., kand. tekhn. nauk; NAUMOV, K.M., inzh.

Effect of the traveling speed of the DT-75 tractor on the stresses  
in suspension systems. Trakt. i sel'khoz mash. no.8:5-7 Ag '65.  
(MIRA 18:10)

1. Gosudarstvennyy soyuznyy nauchno-issledovatel'skiy traktornyy  
institut (for Dmitrichenko, Starikov). 2. Orenburgskiy sel'-  
skokhozyaystvennyy institut (for Vigdorichik, Naumov).

ADMISSION NR: AP5007073

S/0122/65/000/001/0016/0019

AUTHORS: Dmitriyenko, S. S. (Candidate of technical sciences); Filatov, E. Ya. (Candidate of technical sciences); Nersesyan, R. V. (Engineer)

TITLE: Application of electronic computers in analyzing the endurance of parts

SOURCE: Vestnik mashinostroyeniya, no. 2, 1965, 16-19

TOPIC TAGS: endurance limit, service life, statistical analysis, electronic computer

ABSTRACT: Application of electronic computers in analyzing the endurance of parts is discussed, primarily qualitatively. Statistical methods of analyzing the endurance of parts operating under nonconstant or transient loads can significantly improve the prediction of their useful life. Electronic computers make it possible to reduce the work involved in such an analysis from several hundred hours to one hour. The authors state that the optimum procedure for using computers in these problems is as follows: the input consists of data on the load conditions (normally in the form of oscillograph traces or on magnetic tapes), on the resistance of the part to fatigue and on the use cycle; the output from the computer yields values characterizing the service life with the

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ACCESSION NR: AP5007073

2

associated failure probability. Based on previous work by E. Ya. Filatov (Pribor dlya statisticheskoy obrabotki otsillograficheskikh zapisey- "Zavodskaya laboratoriya," 1961, No. 2), an experimental device for the statistical analysis of oscillograph traces (on paper) was successfully built and tested in 1963 jointly by NATI and the Mechanics Institute of the AN SSSR. The importance of a program algorithm in using a computer is stressed. An algorithm for a program (with the input and output as described above) based on the Pearson and Kolmogorova criteria is presented. This algorithm can also be used for statistical analysis of other processes and can be used on any computer of the types "Ural," "BESM," "Strela," "Minsk" and "Rasdan." Comparison of results obtained with this algorithm to hand-calculated results shows its great accuracy. Orig. art. has: 1 table.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: DP, IE

NO REF SOV: 005

OTHER: 002

Cord

2/2

L 38684-66 EWT(d)/EWP(c)/EWP(v)/T/EWP(k)/EWP(l) IJF(c)

ACC NR: AP6017625 (A) SOURCE CODE: UR/0113/66/000/002/0021/0023

AUTHOR: Dmitrichenko, S. S. (Candidate of technical sciences); Shevchenko, A. I.

ORG: NATI; MVTU imeni Bauman

TITLE: Accelerated road testing of trucks

SOURCE: Avtomobil'naya promyshlennost', no. 2, 1966, 21-23

TOPIC TAGS: endurance test, material failure, mechanical failure, fatigue test, road, automobile industry

ABSTRACT: The disadvantages of conventional testing are discussed. Some of these are: a) it takes too long to test one automobile (8-12 months); b) the impossibility of comparing results due to the instability of road and test conditions; c) the impossibility of detecting a series of weak spots during testing. Accelerated road testing is proposed. Accelerated testing in practice must be carried out under the following conditions: a) programmed loading which includes a spectrum of operational loads; b) cyclic loading with a constant amplitude, where the loading is similar to fatigue-causing conditions during operation; c) a typical operational load cycle which is most characteristic for selecting operational conditions and which is most destructive; d) several typical operational load cycles which follow each other in a definite sequence; e) load conditions which are different from operational conditions. This selection of

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UDC: 629.113.001.45

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ACC NR: AP6017625

accelerated road test conditions was based on tensometric and statistic analysis of the amplitudes of variable loads during operation of the ZIL-16A truck. Analysis of the fatigue failures in the frame members of these vehicles shows that this type of failure occurred in the places where it would normally have occurred during operation. This indicates that the conditions for accelerated road testing were properly selected. Orig. art. has: 3 figures, 2 tables.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 006/ OTH REF: 001

Card 2/2 *LC*

KLIMENKO, Ye.V.; DMITRICHENKO, V.A.

Precast reinforced concrete skip wells for blast furnaces.  
Sbor. nauch. trud. KGRI 18:22-28 '62. (MIRA 17:5)

KRYZHANOVSKAYA, I.I., prof., DMITRICHENKO, V.P.; LUK'YANETS, N.V.

Hemodynamic indicators and gases in the blood of patients with  
chronic nonspecific pulmonary diseases. Vrach.delo no.3:11-16  
Mr '63. (MIRA 16:4)

1. Kafedra gospital'noy terapii (zav. - prof. I.I.Kryzhanovskaya)  
Dnepropetrovskogo meditsinskogo instituta.  
(BLOOD—EXAMINATION) (LUNGS—DISEASES)

DMITRIKH, I. N.

Mechanical method of stirring when fortifying must be done with pulp still present. Vin. SSSR 12 No 8, 1952



DMITRICHEV, P.

~~SECRET~~  
Guarantee the budget's receipt of loan funds on time and in full. Fin.SSSR 16 no.6:23-27 Je '55. (MIRA 8:6)

1. Nachal'nik Glavnogo upravleniya gosudarstvennykh trudovykh sberegatel'nykh kass i gosudarstvennogo kradita.  
(Debts, Public)

DMITRICHEV, P.  
DMITRICHEV, P.

~~DMITRICHEV, P.~~  
Work better than in the past year. Fin.SSSR 18 no.2:46-47  
F '57. (MLRA 10:5)

1. Nachal'nik Glavnogo upravleniya gostrudsbekass i goskredita.  
(Banks and banking)

ZVEREV, A.G.; POPOV, V.F.; FADEYEV, I.I.; BABUSHKIN, V.I.; BERLOVICH, I.L.;  
BOCHKO, A.M.; BURLACHENKO, S.Ye.; GARBUZOV, V.F.; DMITRICHEV, P.Ya.;  
DURDUKOV, G.F.; ZLOBIN, I.D.; KOROVUSHKIN, A.K.; KORSHUNOV, A.I.;  
KUZIN, M.G.; KUTUZOV, G.A.; LYSKOVICH, A.A.; MASHTAKOV, A.M.;  
MIKHEYEV, V.Ye.; NIKEL'BERG, P.M.; POSKONOV, A.A.; ROMANOV, G.V.;  
SOSIN, I.F.; SOSNOVSKIY, V.V.; POVOLOTSKIY, M.M.; URYUPIN, F.A.;  
KHARIONOVSKIY, A.I.; CHULKOV, N.S.; SHESHERO, N.A.; SHITOV, A.P.;  
SHUVALOV, A.M.; YANBUKHTIN, K.Kh.

Arsenii Mikhailovich Safronov; obituary. Fin.SSSR 18 no.11:95  
N 157. (MIRA 10:12)

(Safronov, Arsenii Mikhailovich, 1903-1957)

DMITRICHEV, P.

Lotteries with monetary and other prizes. Fin. SSSR 19 no.8:32-37  
Ag '58. (MIRA 11:9)

1. Nachal'nik Glavnogo upravleniya gostrudsberkass i goskredita.  
(Lotteries)

DMITRICHEV, P.

The rise in national prosperity is the basis for the increase in workers' savings. Fin. SSSR 20 no.6:8-17 Je '59. (MIRA 12:10)

1.Chlen kollegii Ministerstva finansov SSSR.  
(Savings banks)

BERDICEVSKIJ, G.I. [Berdichevskiy, G.I.], doktor technickych vied;  
DMITRIEV, J.V. [Dmitriyev, I.V.], kandidat technickych vied

*[Handwritten signature]*  
Prestressed reinforced concrete girders with prestressed  
transverse reinforcement. Inz stavby 12 no.1:32-37 Ja'64.

1. Laboratoria predpatych konstrukcii Vedecko-vyskumneho  
ustavu betonu a zelezobetonu, Moskva.

36436

S/137/62/000/003/072/191  
A006/A101

15.2400  
AUTHORS:

Fedorchenko, I.M. Filatova, N.A., Sleptsova, N.P., Dmitrieva, M.A.,  
Yermolin, Yu.N., Voynitskiy, A.I., Kiselev, V.P.

TITLE:

Refining of molten sodium with the aid of cermet filters

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 44 abstract 30305  
("Poroshk. metallurgiya", 1961, no. 4, 98 - 102, English summary)

TEXT:

For the refining of molten Na from oxide compounds, cermet filters were used made of reduced Fe-powder (a mixture of АПНТ (APZHM) grade fractions). The filters of about 40% porosity were manufactured in the form of beakers 32 and 24 mm in diameter, and 75 mm high. The blanks pressed under 2 t/cm<sup>2</sup> pressure were sintered in converted gas atmosphere at 1200°C for 2 h. The hydraulic characteristics of Fe-filters are given (gas and oil permeability); the degree of refining of the filters was 5%. As a result of using cermet filters the Na purity was raised and the quality of Ti, obtained by the method of sodium-thermal reduction, was improved. The filters have been reliably operating for over one year. The efficiency of the filters is about 0.12 kg/cm<sup>2</sup> · hour at a pressure

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Ca1

36436

S/137/62/000/003/072/191  
A006/A101

15.2400

AUTHORS: Fedorchenko, I.M. Filatova, N.A., Sleptsova, N.P., Dmitrieva, M.A.,  
Yermolin, Yu.N., Voynitskiy, A.I., Kiselev, V.P.

TITLE: Refining of molten sodium with the aid of cermet filters

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 44 abstract 36305  
("Poroshk. metallurgiya", 1961, no. 4, 98 - 102, English summary)

TEXT: For the refining of molten Na from oxide compounds, cermet filters were used made of reduced Fe-powder (a mixture of АПЖП (APZhM) grade fractions). The filters of about 40% porosity were manufactured in the form of beakers 32 and 24 mm in diameter, and 75 mm high. The blanks pressed under 2 t/cm<sup>2</sup> pressure were sintered in converted gas atmosphere at 1200°C for 2 h. The hydraulic characteristics of Fe-filters are given (gas and oil permeability); the degree of refining of the filters was 5,4%. As a result of using cermet filters the Na purity was raised and the quality of Ti, obtained by the method of sodium-thermal reduction, was improved. The filters have been reliably operating for over one year. The efficiency of the filters is about 0.12 kg/cm<sup>2</sup> · hour at a pressure

Card 1/2



Refining of molten....

drop of about 1.2 atm.

[Abstracter's note: Complete translation]

S/137/62/000/003/072/191  
A006/A101

R. Andriyevskiy

Card 2/2

9011-65 EWT (m) DIAAP

ACC NR: AT5022096

UR/2778/65/000/014/0024/0059

38  
B+1

AUTHOR: Dmitriev, M.T. 5

TITLE: Electrical methods of atmospheric pressure measurements and radioactive ionization manometers 19,65

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 14, 1965, 28-59

TOPIC TAGS: atmospheric ionization, pressure gage, aircraft flight instrument 9,55

ABSTRACT: The paper discusses direct electrical conversion methods of gas pressure measurement. An instrument merit coefficient

$$G = (\lg(P_{max} / P_{min})) / a.t. \quad (1)$$

is proposed, with  $P_{max}$  and  $P_{min}$  - the limits of reliably measureable pressure;  $a$  - the measurement error (%); and  $t$  - the time constant (inertia) of the indication. With  $G$  as a criterion, the radioactive ionization pressure measurement method appears best, followed by the magnetolectric discharge and by the conventional ionization measurement methods. A review of various methodologies and designs of radioactive ionization instruments, with particular regard to linearity is given. It is shown that the radioactive ionization method can attain pressure measurement precision of .005 to .01%, and better. The range of measureable pressures is wide, from  $10^{-7}$

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ACC NR: AT5022096

to  $10^3$  mm Hg. Time constants are low, between  $10^{-6}$  and  $10^{-1}$  seconds, depending upon transducer element time constants. Other advantages include linearity, absence of hysteresis, insensitivity to accelerations, continuity of output, practically unlimited life and adaptability to automatic recording and to telemetry. These qualities suggest also applications to standards of measurement. Suitability for additionally measuring other parameters, such as humidity, wind vector and temperature permits wide use of this method in hydrometeorological instrumentation. A review of literature is given. The orig. art. has 4 figures, 2 tables and 48 formulas.

ASSOCIATION: NIIGMP

SUBMITTED: 00

ENCL.: 00

SUB CODE: 08

NO REI<sup>n</sup> SOV: 070

OTHER: 012

(18)

HW  
Card 2/2

CONFIDENTIAL

and are also highly quoted on the market. Ind. cont. p. 3:31-36  
10.

PUZANOV, L.S.; DMITRIK, A.L.

Some problems in studying the decrepitation of minerals. Lit. i  
pol. iskop. no.3:134-140 My-Je '65.

(MIRA 18:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo  
syr'ya Gosudarstvennogo geologicheskogo komiteta SSSR i  
Geologicheskoy institut AN SSSR, Moskva.

AMAN'YANES, G.M.; ADEKUMAT, B.A.; DNITRIYENKO, I.L.; MOSEVICH, V.I.;  
TSMERAS, R.A.

Straight branch of the voltampere characteristics of silicon  
diodes with a gold-alloyed base. Radiotekhn. Elektron. IC  
no. 11:2037-2045 N 165. (MIRA 18610)

DMITRIK, R.S.; IVASHCHENKO, N.F.; TARTAKOVSKIY, R.N., kand.tekhn.nauk  
(st.Kazatin, Yugo-Zapadnoy dorogi)

Equipment of the repair shops needs to be modernized. Put' i  
put. khoz. 5 no.3:26 Mr '61. (MIRA 14:3)

1. Nachal'nik shpaloremontnykh masterskikh, stantsiya Kazatin,  
Yugo-Zapadnoy dorogi (for Dmitrik). 2. Nachal'nik Putevoy dorozhnoy  
mashinnoy stantsii, st.Kazatin, Yugo-Zapadnoy dorogi (for Ivashchenko).  
(Railroads--Ties)

GOLUB, Andrey Matveyevich [Golub, A.M.], kand.khimichnykh nauk; DMITRIK, Semen Yakovlevich [Dmytryk, S.IA]; PILIPENKO, A.T., red.

[Rare and dispersed elements and their importance in the national economy] Riddkisi i rossiani elementy ta ikh znachennia v narodnomu hospodarstvi. Kyiv, 1958. 43 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrain's'koi RSR. Ser. 4, no.10).  
(Chemical elements) (MIRA 12:2)



DMITRIKOVSKIY, A.L.

~~www.researchgate.net/publication/318421189~~

Universal bulldozer mounted on the KD-35 tractor. Rats.1 izobr.  
predl.v stroi. no.57:15-16 '53.

(MIRA 7:2)  
(Bulldozers)

OMEL'CHUK, P. V.; DMITRISHIN, I. P. [Dmytryshyn, I. P.]

Agricultural machines should be repaired the whole year round  
by specialized crews. Mekh. sil'. hosp. 14 no.2:23-24 F '63.  
(MIRA 16:4)

1. Nachal'nik otдела ekspluatatsii i remonta mashinno-traktornogo  
parka Ministerstva proizvodstva i zagotovki sel'skokhozyayst-  
vennykh produktov UkrSSR (for Omel'chuk). 2. Glavnyy inzh.  
Bershad'skogo proizvodstvennogo upravleniya, Vinnitskoy oblasti  
(for Dmitrishin).

(Ukraine—Agricultural machinery—Maintenance and repair)

RUMANIA / Human and Animal Physiology. Blood Circulation. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41256.

Author : ~~Dmitriu, C. Gh.~~; Drugan, A.; Mates, E.; Stanescu,  
P.; Merovici, S.; Nestor, R.; Nestor, G.

Inst : Not Given.

Title : Investigations of Water and Electrolytes Metabolism  
in Cardiac Insufficiency.

Orig Pub: Probl. terap., 1957, 6, 31-40.

Abstract: No Abstract.

Card 1/1

58

DMITRIU, C.C., prof.; SAFIRESCU, Gh., dr.

Medical treatment of uncomplicated forms of gastroduodenal ulcerous disease. Med. intern., Bucur13 no.4:481-491 Ap '61.

1. Lucrare efectuata in Clinica medicala a Spitalului "Carol Davila".  
(PEPTIC ULCER therapy)

DMITRIU, C.C., prof.; BERONIADE, V., dr.

The treatment of non-specific bacterial interstitial nephritis  
(pyelonephritis). Med. intern., Bucur 13 no.4:493-506 Ap '61.

1. Lucrare efectuata in Clinica a II-a medicala "C. Davila"  
(director: prof. C.C.Dimitriu).  
(PYELONEPHRITIS therapy)

Aleksandrovich  
Effective coding (Effektivnoye kodirovaniye)  
illus., biblio. 9,000 copies printed.

Monograph

TOPIC TAGS: communication coding, communication decoding, information theory, interference reduction, analog digital conversion, image converter

57  
(B+)  
0234 p.

PURPOSE AND COVERAGE: This book presents problems in the theory and procedure for systems of statically effective coding by optimal test of various communications using static redundancy during their transmission and also included are different methods and the theory of effective codes of interference in communication systems used for for decorrelating signals of various systems described. The book gives technical realization of specific effective coding for a wide range of noiseproof features of these systems related to the storage of information. It can also be useful as a text for courses effective coding as well as methods for increasing in technology of transmission and storage of information and coding. on the theory of information and coding.

TABLE OF CONTENTS (abridged):  
Preface—3  
Part 1/2

systems—  
sing effective

L 08520  
ACC NR:  
ch. I: General  
al coding theory

L 08520-67

ACC NR: AM6019452

- Ch. I. Generalized block diagram of transmission systems of discrete communication.  
Digital coding--5
- Ch. II. The theory of optimal nonuniform codes--33
- Ch. III. Decorrelation of communication and methods of effective block coding--69
- Ch. IV. Geometric model of digital codes. Principles of coordinate decoding of  
prefixed codes--95
- Ch. V. Principles of constructing coding and decoding arrangements of effective  
coding systems--102
- Ch. VI. Characteristics of the action of interference in effective coding systems--  
149
- Ch. VII. Static characteristics of different types of communications--181
- Ch. VIII. Several systems of electrical communications and telemetry using effective  
coding--200
- Bibliography--229

SUB CODE: 09/ SUBM DATE: 01Nov65/ ORIG REF: 056/ OTH REF: 056

Card 2/2 1s

BUSHIN, V., inzh.; YEFREMOV, A., inzh.; DMITRIYENKO, A., inzh.

Precast tile floors. Stroitel' no.5:10 My '60. (MIEA 13:9)  
(Tiles) (Floors)



DMITRIYENKO, A.

Our preparations for shifting to the seven-hour labor day. Avt.  
transp. 38 no.6:39-40 Je '60. (MIRA 14:4)

1. Starshiy inzhener-ekonomist Ussuriyskogo avtoremontnogo zavoda.  
(Hours of labor)

DMITRIYENKO, A.

Skilled worker. Avt.transp. 41 no.1:7 Ja '63. (MIRA 16:2)

1. Nachal'nik otdela truda i sarabotnoy platy Ussuriyskogo  
avtoremonstnogo zavoda.  
(Ussuriysk--Motor vehicles--Maintenance and repair)

DMITRIYENKO, A.

Device for heating polyvinyl chloride tiles. Stroitel' no.1:25  
Ja '61. (MIRA 14:2)

(Tiles)

DMITRIYENKO, A.S.

Methodology of intravenous injections in chronic experiments on animals. Fiziol.zhur. 51 no.4:522-523 Ap '65.

(MIRA 13:6)

1. Kafedra normal'noy fiziologii Dnepropetrovskogo meditsinskogo instituta.

S/109/62/007/006/020/024  
D234/D308

9,2572

AUTHORS: Monosov, Ya. A. and Dmitriyenko, A. N.

TITLE: Limitation of the possibility of creating a ferrite magnetostatic amplifier owing to the influence of spin waves

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 6, 1962, 1050-1053

TEXT: The limitation can be estimated in a comparatively simple way by neglecting the mutual influence of long and short wave oscillations of magnetization in ferrites and then comparing their threshold levels of parametric excitation. It is concluded that if the relaxation constant of short wave oscillations is approximately equal to that of long wave oscillations, a parametric ferrite amplifier of magnetostatic type appears to be impossible in case of transverse polarization of the pumping field. If the first constant is smaller than the second, there is a limitation for both transverse and longitudinal pumping, and if it is larger, the limitation of amplification factor due to spin waves is weakened. There are 3 figures.

*Submitted: July 1961*

✓  
B

*DMITRIYENKO, G. V.*

KERYUSHKIN, D.M.; DMITRIYENKO, G.V., redaktor; MAKHOVA, N.N., tekhnicheskiiy redaktor

[Chemistry; a manual for the 7th grade in seven-year and secondary schools] Khimiya; uchebnik dlia 7 klassa semiletnei i srednei shkoly. Izd. 4-oe. Moskva, Gos.uchobno-pedagog. izd-vo K-va prosv. RSPSR, 1952. 142 p. (MIRA 10:10)  
(Chemistry)

1. DMITRIYENKO, G. V.
2. USSR (600)
4. Chemists
7. I. A. Kablukov, scientist and teacher, *Khim. v shkole*, No. 5, 1952.

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

TSVETKOV, L.A., redaktor; ~~DMITRIYENKO, G.V.,~~ redaktor; VEDENEYEV, Ye.A.,  
tekhnicheskiy redaktor

[Field trips by school chemistry classes to industrial establishments;  
collection of articles based on teaching experiences] Proizvodstvennyye  
ekskursii po khimii v shkole; sbornik statei. Moskva, Gos. uchebno-  
pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1953. 132 p.  
(Chemistry--Study and teaching) (MLRA 8:3)



BALEZIN, S.A.; BESKOV, S.D.; IMITRIYENKO, G.V., redaktor; DZHATIYEV, S.G.,  
tekhnicheskii redaktor.

[Outstanding Russian chemists] Vydaiushchiesia russkie uchenye khi-  
miki. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshche-  
niia RSFSR, 1953. 214 p. (MLRA 7:8)  
(Chemists)

GOSTEV, M.M. [author]; ~~DMITRIYENKO, G.V.~~ [reviewer].

Textbook for extracurricular work in a seven-year school ("Chemical experiment in the course of extracurricular work." M.M. Gostev. Reviewed by G.V. Dmitrienko). Khim. v shkole no.3:77-78 My-Je '53. (MLRA 6:7)  
(Chemistry--Experiments) (Gostev, M.M.)

-----, U. V.  
Dissertation: "The Eminent Russian Scientist I. A. Kablukov." Cand Chem Sci,  
Moscow State Pedagogical Inst imeni V. I. Lenin, 21 Jun 54. (Vechernyaya Moskva,  
Moscow, 11 Jun 54)

SO: SUM 318, 23 Dec 1954

DMITRIYENKO, G.V.

KUDRYAVTSEV, Aleksandr Andreyevich; KHRAPOV-SHMAROV, Georgiy Alekseyevich; DMITRIYENKO, G.V., redaktor; VEDENEYEV, Ye.A., tekhnicheskiy redaktor.

[Oxidation-reduction reaction.] Okislitel'no-vosstanovitel'nye reaktsii. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1954. 101 p. (MIRA 8:3)  
(Oxidation--Reduction reaction)

KIRYUSHKIN, D.M.; DMITRIYENKO, G.V., redaktor; DZHATIYEV, S.G.,  
tekhnicheskii redaktor

[Chemistry; textbook for the 7th class of 7-year  
and secondary schools] Khimiia; uchebnik dlia sed'mogo klassa  
semiletnei i srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-  
vo Ministerstva prosveshcheniia RSFSR, 1954. 111 p. (MLRA 7:10)  
(Chemistry)

TITOV, Aleksandr Georgiyevich; ~~DMITRIYENKO, G.V., redaktor;~~ VEDENEYEV,  
Ye.A., tekhnicheskij redaktor.

[Mineralogy; with the elements of geology. Textbook for pedagogical schools] Mineralogiia; s osnovnymi svedeniami iz geologii. Uchebnoe posobie dlia pedagogicheskikh uchilishch. Moskva, Gos. uchebno-pedagog.izd-vo Ministerstva prosveshchenia RSFSR, 1954. 118 p. (MIRA 8:5)

(Mineralogy)

TSVETKOV, Leonid Aleksandrovich; DMITRIYENKO, G.V., redaktor; SHIKIN,  
S.T., tekhnicheskiy redaktor

[Organic chemistry: textbook for secondary schools] Organicheskaya  
khimiya; posobie dlia uchashchikhsia srednei shkoly. Izd. 3-e.  
Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia  
RSFSR, 1954. 138 p. (MIRA 8:7)  
(Chemistry, Organic)

TSVETKOV, L.A.; DMITRIYENKO, G.V., redaktor; RYBIN, I.V., tekhnicheskii redaktor.

[Experiments in organic chemistry for secondary schools; methods and equipment. Teachers' manual] Eksperiment po organicheskoi khimii v srednei shkole; metodika i tekhnika. Posobie dlia uchitelsi. Izd.2-e. Moskva, Gos. ucheb.-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1954. 266 p. (MLRA 7:12)  
(Chemistry, Organic--Experiments)



KORZHEV, P.F.; PARMENOV, K.Ya.; DAVYDOV, S.D.; GOL'DFARB, Ya.L.;  
NEYDING, A.B.; DMITRIYENKO, G.V., redaktor; SHIKIN, S.T., tekhnicheskiy redaktor

[Chemistry handbook for teachers of secondary schools] Spravochnik po khimii dlia uchitelei srednei shkoly. Izd. 3-e, perer. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR, 1954. 370 p. (MIRA 7:11)  
(Chemistry)

*DMITRIYENKO, G.V.*

BESKOV, S.D., professor; DMITRIYENKO, G.V.

Book on chemical equations ("Construction of chemical equations."  
A.A.Kudriavtsev. Reviewed by S.D.Beskov, G.V.Dmitrienko.) Khim.v  
shkole 9 no.5:73-74 8-0 '54. (MIRA 7:9)  
(Chemistry--Notation) (Kudriavtsev, A.A.)

KIRYUSHKIN, Dmitriy Maksimovich; DMITRIYENKO, G.V., redaktor; Dzhatiyev,  
S.G., tekhnicheskiy redaktor

[Chemistry; a textbook for class 7 of the seven-year and secondary  
schools] Khimiia; uchebnik dlia 7 klassa semiletnei i srednei  
shkoly. Izd. 2-e Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva  
prosveshchenia RSFSR, 1955. 111 p. (MLRA 8:6)  
(Chemistry--Study and teaching)

DUBYNIN, L.A.; DMITRIYENKO, G.V., redaktor; DZHATIYEV, S.G., tekhnicheskii redaktor.

[Brief manual on methods of teaching chemistry in class 7]  
Kratkoe rukovodstvo po metodike prepodavaniia khimii v sed'mom klasse. Moskva, Gos.uchebno-pedagog.izd-vo Ministerstva prosveshcheniia RSFSR, 1955. 130 p. (MLRA 8:11)  
(Chemistry--Study and teaching)

PARMENOV, K. Ya.; SMORGONSKIY, L. M.; DMITRIYENKO, G. V., redaktor; PETROVA,  
M. D., tekhnicheskiy redaktor

[Chemistry reader] Kniga dlia chteniia po khimii. Izd. 2-oe, perer.  
Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia. Pt. 1.  
1955. 479 p. (MIRA 9:2)

1. Akademiya pedagogicheskikh nauk RSFSR, Moscow. Institut metodov  
obucheniia.

(Chemistry--History)

DMITRIYENKO, G.V.

I.A. Kablukov's Museum of Lecture Experiments. Khim.v shkole 10  
no.2:77-78 Mr-Ap '55. (MLRA 8:7)  
(Chemistry--Experiments)

VASIL'YEV, Sergey Vasil'yevich; DMITRIYENKO, G.V., redaktor; PONOMAREVA,  
A.A., tekhnicheskiy redaktor

[Chemical experiments with electric current; manual for work  
outside class] Khimicheskie opyty s primeneniem elektricheskogo  
toka; rukovodstvo po vneklassnoi rabote. Moskva, Gos. uchebno-  
pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 110 p.  
(Electric currents) (MLRA 9:7)  
(Chemistry--Experiments)

YEGORKIN, Vasilii Fedorevich, zaslushenny uchitel' shkoly RSFSR;  
DMITRIYENKO, G.V., redaktor; DZHATIYEV, S.G., tekhnicheskiy  
redaktor.

[Chemistry lessons for class 7; aid for teachers] Uroki khimii  
v VII klasse; posobie dlia uchitelia. Izd.3-e. Moskva, Gos.  
uchebno-pedagog. izd-vo Ministerstva prosveshchenia RSFSR,  
1956. 141 p. (MLRA 9:6)  
(Chemistry)



BORISOV, Ivan Nikolayevich; DMITRIYENKO, G.V., redaktor; PETROVA, M.D.,  
tekhnicheskiy redaktor; RYBIN, I.V., tekhnicheskiy redaktor.

[Methods of teaching chemistry in secondary schools] Metodika  
prepodavaniya khimii v srednei shkole. Moskva, Gos.uchebno-pe-  
dagog. izd-vo Ministerstva prosvetshcheniya BSPSR, 1956. 461 p.  
(Chemistry--Study and teaching)

BUTYRSKIY, N.A., prepodavatel'; ~~DMITRIYENKON~~, G.V., red.;  
MIRONTSEVA, M.I., tekhn. red.

[Teaching chemistry in normal schools] O prepodavanii khimii  
v pedagogicheskikh uchilishchakh. Moskva, Uchpedgiz, 1954. 77 p.  
(MIRA 16:7)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye podgotovki  
uchitelei. 2. Noginskoye peduchilishche Moskovskoy oblasti (for  
Butyrskiy).

(Chemistry--Study and teaching)

9,4179  
26.2421

27148  
S/166/61/000/004/007/007  
B112/B102

AUTHOR: Dmitriyenko, I. L.

TITLE: Positive photoelectric effect in selenium photocells with thallium film

PERIODICAL: Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 4, 1961, 78 - 82

TEXT: The author studied thallium-plated selenium photocells on an iron backing. He found that sensitivity and photo-emf increase with time. In the majority of the cases, the spectral sensitivity distribution indicated a positive photoelectric effect. On the basis of theoretical studies the author gives the following explanation of this phenomenon: the thallium film not only augments the local energy levels and the electron transitions related to the photoelectric effect but also changes the contact potential between the upper electrode and the semiconductor. Besides, it also causes the formation of an "anti-blocking layer" (V. Ye. Lashkarev, ZhETF, 1948, 18, 10, 917). This explanation is also confirmed by the fact that in the same specimen, the positive or the negative sign of photo-emf,

Card 1/2

2

27148

S/166/61/000/004/007/007  
B112/B102

Positive photoelectric effect in ...

according to the electrode material, and conductivity symmetry were observed. K. M. Kosonogova, B. T. Kolomiyets, K. G. Trofimov, A. I. Gubanov, and A. V. Ioffe are mentioned. There are 1 figure, 1 table, and 8 Soviet references. ✓

ASSOCIATION: Fiziko-tehnicheskij institut AN UzSSR ( Physicotechnical Institute AS Uzbekskaya SSR)

SUBMITTED: July 5, 1960

Card 2/2

24.2421

S/166/62/000/002/006/008  
B112/B104

AUTHOR: Dmitriyenko, I. L.

TITLE: Certain physical properties of selenium photocells with cadmium-plated base (back-wall photoeffect)

PERIODICAL: Akademiya nauk Uzbekskoy SSR, Izvestiya. Seriya fiziko-matematicheskikh nauk, <sup>vol 6</sup> no. 2, 1962, 67-75

TEXT: Properties pointing to a back-wall type of photoeffect were established in selenium photocells with cadmium-plated base. The n-p junction (cadmium selenide - selenium) lies in the zone of the lower electrode. Absorption of light near the junction increases the emf. The shape of the spectral characteristics depends not only on the spectral sensitivity of selenium and cadmium selenide, but also on the optical properties of the selenium layer and on the relation between absorption coefficients and wavelengths of light. There are 8 figures and 2 tables.

Card 1/2

✓e

Certain physical properties of ...

S/166/62/000/002/006/008  
B112/B104

ASSOCIATION: Fiziko-tekhnicheskiy institut AN UzSSR (Physicotechnical Institute AS UzSSR). Tashkentskiy elektrotekhnicheskiy institut svyazi (Tashkent Electrotechnical Institute of Communications)

SUBMITTED: July 7, 1961

Card 2/2

L 8244-66

ACC NR: AP5022436

SOURCE CODE: UR/0109/65/010/009/1700/1706

AUTHOR: Avak'yants, G. M.; Dmitriyenko, I. L.; Murygin, V. I.

ORG: none

TITLE: Properties of "long" diodes

SOURCE: Radiotekhnika i elektronika, v. 10, no. 9, 1965, 1700-1706

TOPIC TAGS: semiconductor diode, junction diode

ABSTRACT: An analysis is offered of a new theoretical model of the "long" diode which consists of a two-layer structure with one injection junction, the diode base being located next to the back contact; the rate of surface recombination is assumed to be constant. By setting up, solving, and analyzing a differential equation describing the processes in the "long" diode, this formula for its I-V characteristic is derived:  $V = 2s_p d / 3u_p$ , where  $d$  is the back-contact coordinate. This formula and other relations indicate the possibility of two types

Card 1/2

UDC: 621.382.29.001.5

L 8244-66

ACC NR: AP5022436

of I-V characteristics in "long" diodes: (1) The characteristic starts with an Ohm's-law segment, then a  $j \approx V^2$  segment follows, then  $V = \text{const.}$ , and finally,  $j \approx V^3$ ; (2) The Ohm's-law segment, then a segment obeying the above I-V characteristic formula, and finally,  $j \approx V^5$ . Orig. art. has: 59 formulas.

SUB CODE: 09 / SUBM DATE: 13Dec63 / ORIG REF: 006 / OTH REF: 001

OC  
Card 2/2



L 8780-66 EEC(k)-2/EWA(h)/EWT(1)/EWT(m)/T/EWP(b)/EWP(t) IJP(c) JD  
ACC NR: AP5027626 SOURCE CODE: UR/0109/65/010/011/2037/2045

AUTHOR: Avak'yants, G. M.; Atakulov, B. A.; Dmitriyenko, I. L.; Murygin, V. I.; Tserfas, R. A.  
44 44 44 56 54 B

ORG: none

TITLE: Problem of the forward branch of the current-voltage characteristic of gold-doped-base silicon diodes 25, 44

SOURCE: Radiotekhnika i elektronika, v. 10, no. 11, 1965, 2037-2045

TOPIC TAGS: semiconductor diode, silicon diode, current voltage characteristic

ABSTRACT: The results of experiments with (50--300-kohm.cm) Si-diodes doped by Au (0.1% Sb admixture) are reported; in some cases, the n<sup>+</sup>-layer was obtained by phosphorus diffusion. Six varieties of experimental I-V characteristics had a segment of negative resistance followed by a segment of independent I/V relation;

Card 1/2

UDC: 621.382.2:546.28

2

L 8780-66

ACC NR: AP5027626

the latter segment occupies a large current interval and starts from 1.5-7 v. As neither M. A. Lampert's theory (Phys. Rev., 1962, 125, 126) nor R. Hall's theory (Proc. IRE, 1952, 40, 1512) can explain such a shape of the I-V characteristic, the authors offer a new theory based on the kinetics of carrier transitions near deep levels and on the formation of space charges in the dielectric-like semiconductor material. They also offer an empirical formula which describes both mechanisms behind the above I-V characteristic. Additional experiments with the diodes at -59-24--4+49C corroborated the new theory: the negative-resistance segment vanished at higher temperatures. "E. G. Pel' carried out the lifetime measurements." Orig. art. has: 7 figures and 12 formulas.

SUB CODE: 09 / SUBM DATE: 05Jun64 / ORIG REF: 001 / OTH REF: 003

jw  
Card 2/2

PLAGE I BOOK REVIEWS 807/992

Abdumyrzaev, M.S. Institut Fizicheskoy Khimii

Problemy Khimicheskoy Kinetiki. [3] 10: Fizika i Khimicheskaya Kinetika (Problems of Kinetics and Catalysis. [vol. 10: Physics and Physical Chemistry of Catalysis]) Moscow, Izd-vo AN SSSR, 1960. 461 p. Irregularly published. 2,500 copies printed.

Eds.: S.Z. Roginskii, Corresponding Member of the Academy of Sciences USSR, and O.Y. Erylov, Candidate of Chemistry; Ed. of Publishing House: A.L. Mambritser; Tech. Ed.: O.A. Astaf'yeva.

PURPOSE: This collection of articles is addressed to specialists and chemists and to the community of scientists in general interested in recent research on the physical and physical chemistry of catalysis.

COVERAGE: The articles in this collection were read at the conference on the Physics and Physical Chemistry of Catalysis organized by the Central Scientific Institute of the USSR (Section of Chemical Sciences, Academy of Sciences USSR) and by the Academic Council on the problem of the scientific bases for the selection of catalysis. The conference was held at the Institut Fizicheskoy Khimii AN SSSR (Institute of Physical Chemistry of the AN SSSR) in Moscow, March 20-22, 1960. Of the great volume of material presented at the conference, only papers not published elsewhere were included in this collection.

Prozor, V.M., O.Y. Erylov, and S.Z. Roginskii. [Lawlike Properties of Physical Chemistry of the AN SSSR]. Catalytic Properties of Zeolites 102

Kochuyev, V.L., and G.K. Korotkov (Pribor-Khimicheskii Institut Imeni L.I. Mechnikova [Physicochemical Institute Imeni L.I. Mechnikov]). Investigations of the Relation Between the Catalytic Activity and the Semiconductor Properties of Ceramics 108

Krasnitskiy, V.I., G.P. Romanov, and L.I. Stetsko (Institute of Physics of the AN SSSR). Cases in the Surface Contact Potential of Ceramics During Adsorption and Catalysis 111

Erylov, O.Y., S.Z. Roginskii, and N.A. Fokina (Institute of Physical Chemistry of the AN SSSR). Catalysis Over Semiconductors in the Self-conductance Zone 117

Kalashnikov, I.I. (Eastern Siberian Branch of the AN SSSR). Selection of High Temperature Catalysts for Various Cases of Restrictive Hydrogenation 121

II. CATALYSIS OVER METALS

Shcherbakov, G.K. (Physicochemical Institute Imeni L.I. Mechnikov). Catalysis Over Metals 128

Kochuyev, V.L., and V.B. Glushko (Department of Physics of Moscow State University). Contribution to the Theory of Chemical Adsorption of Metals 131

Trushchinskii, V.K. (Institute of Physical Chemistry of the Polish Academy of Sciences, Wrocław). Structure and Magnetic Properties of Some Metallic Contacts 135

Freyvald, I.I. (Institute of Physical Chemistry of the AN SSSR). Investigation of the Adsorption of Gases on Metals with the Aid of an Electron Probe 139

Gorobovskiy, Ye. S. (Institut Fizicheskoy Khimii Imeni L.I. Mechnikova AN SSSR Institute of Physical Chemistry Imeni L.I. Mechnikov of the AN SSSR). On the Problem of the Relation of Catalysis and Chemisorption to the Electron State of Metal Surface 149

Krasnitskiy, V.I., and L.D. Antonov. Investigation by Electrochemical Methods of the Kinetics of Catalytic Hydrogenation 152

Bolotnikov, A.I. (Academy of Sciences, Kazakhskaya SSR). On the Problem of the Selection of Catalysts for Liquid Phase Hydrogenation 159

Freyvald, I.I. (Institute of Organic Chemistry of the AN SSSR). Investigation of the Selective Action of Catalysis in Hydrogenation and Reduction Reactions 167

Gorobovskiy, I.I., and G.K. Korotkov (Moscow Chemical Technological Institute Imeni L.I. Mechnikov). Catalysis of Isotopic Exchange in Molecular Hydrogen by Transition Metals of the 4th Period 182

Kochuyev, V.L., L.D. Antonov, V.A. Eshcherbakh, V.I. Stetsko, L.M. Pechenkin, and I.G. Lyubimovskiy (Institute of Physical Chemistry of the AN SSSR). Activity and Structure of Iron Catalysts with Three and Four Promoters for the Synthesis of Ammonia 199

Labakov, V.F. (Moscow State University). Relation Between the Parameters of the Arrhenius Equation for Coated Platinum Catalysts 204

Roginskii, S.Z., N.K. Sigalov, and N.L. Yatskovskiy (Institute of Physical Chemistry AN SSSR). Investigation by the Isotope Method of the Surface of the Alkali Promoter of an Ammonia Catalyst 210

S/081/60/000/021/009/018  
A005/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 21, p. 50, # 83987

AUTHORS: Lachinov, S. S., Kuznetsov, L. D., Kurkovskiy, V. A., Shishkova, V.N.,  
Dmitriyenko, L. M., Lyudkovskaya, B. G.

TITLE: The Activity and Structure of Iron Catalysts of the Ammonia Synthesis  
With Three and Four Activators

PERIODICAL: Probl. kinetiki i kataliza, 1960, Vol. 10, pp. 199-203

TEXT: The activity of an iron catalyst activated by  $K_2O - CaO - Al_2O_3$  is higher with respect to the  $NH_3$  synthesis than the activity of an iron catalyst activated by  $K_2O - Al_2O_3$  and  $K_2O - CaO - Al_2O_3 - SiO_2$  (mainly on account of the higher specific activity). If a nitrogen-hydrogen mixture is applied with poisons containing oxygen, the activity is higher for an iron catalyst with four activators. An iron catalyst activated by  $K_2O - CaO - Al_2O_3 - SiO_2$  is distinguished in comparison with an iron catalyst activated by  $K_2O - CaO - Al_2O_3$  by a greater surface, higher dispersion degree, and finer porosity. In iron catalysts with an intricate activator composition, the alkali and alkali earth activators increase

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