

On the Distribution of Beryllium in the
Khibina Alkalic Massif and on the
Beryllium in Nepheline Syenites, by I. S.
Borodin, 5 pp.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol
CIX, 1956, p 811, 812.

SLA R 1656.

Sci

58

68, 76

On Finding Ar³⁸ in Minerals Containing Potassium,
by E. K. Gerling, L. K. Levskiy, L. I. Afanas'ev,
4 pp.

RUSSIAN, *Dok Ak Nauk SSSR*, Vol CIX, No 4,
1956, pp 813-815.

Morris D. Friedman *G-110*
\$2.00

Sci - Chemistry
Mar 59

84,402

On the Formation of Millite in an Usual Form, by
L. I. Kariakin, and O. M. Margulis, 5 pp.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol CXK,
No 4, 1956, p 821-823.

Morris D. Friedman
K-105

Sci

Jul 58

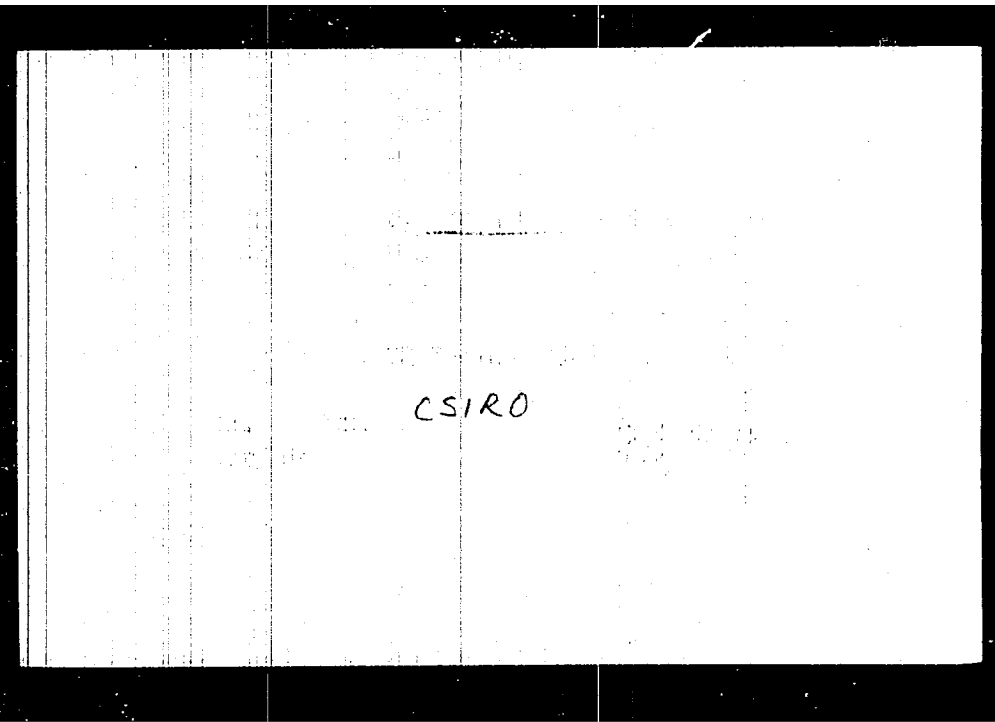
68,781

S-2945

Molecular Rectification, by V. A. Malyusov, et al.

RUSSIAN, thrice-mover, Dok Ak Nauk SSSR, Vol XIX,
No 4, 1956, pp 828-833.

14/11/57



TT-63-19589

- I. Title: Triassic
- I. Kiparisova, L. D.
- II. Popov, Yu. N.
- III. Geological Survey,
Denver, Colo.

Kiparisova, L. D. and Popov, Yu. N.
SUBDIVISION OF THE LOWER (SERIES OF THE)
TRIASSIC SYSTEM (INTO STAGES) (Raschlenenie
Nizhnego Otdela Tryasovoi Sistemy na Yarusy) tr. by
Ivan Mittin. 1963 [14]p. 20 refs.
Order from OTS, SLA, or ETC \$1.60 TT-63-19589

Trans. of Akademiya Nauk SSSR, Doklady, 1956,
v. 109, no. 4, p. 842-845.

DESCRIPTORS: *Paleontology, *Stratigraphy,
Geologic age determination, Geology,

(Earth Sciences--Geology, TT, v. 11, no. 1)

Office of Technical Services

A New Mineral Smolianovite, by L. K. Yakhontova,
6 pp.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol CIX,
1956, p 849-850.

SLA R 1603

Sci

Jul 58

68,817

Measurement of the Dynamical Modulus of Elasticity
of Rubber for Very Small Deformations by an
Optical Modulation-Interference Method, by H. M.
Borovitskaya, 3 pp. (15)

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol
CIX, No 5, Jul-Aug 1956, pp 923-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 4

Sci - Phys
Aug 57

Determination of the Orientation Relaxation Time
of Some Liquids by the Widths of Scattered Lines,
by M. F. Vuks, A. K. Atukhodzhayev, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CDX,
No 5, Jul-Aug 1956, pp 926-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 4

Sci - Phys
Aug 57

A New Method of Measuring the Velocity of
Light, by K. S. Vul'ison, 2 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec,
Vol CIX, No 5, Jul-Aug 1956, pp 929-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 4

Sci- Phys
Aug 57

On the Theory of the Spontaneous Magnetization
of Ferromagnetic Semiconductors at Low Temperature,
by E. I. Kondorskiy, A. S. Palkhomov, T. Shiklosh,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CIX,
No 5, Jul-Aug 1956, pp 931-...

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 4

Sci - Phys
Aug 57

Short-Lived Isomers From Proton Bombardment,
by O. I. Leypunskiy, V. V. Miller, A. M.
Morozov, P. A. Yampol'skiy, 3 pp.

RUSSIAN, par, Dok Ak Nauk SSSR, Phys Sec,
Vol CIX, No 5, Jul-Aug 1956, pp 935-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 4

Sci - Phys
Aug 57

Geographic Distribution of Magnetic Distur-
bance in the Circumpolar Region of the Arctic,
by A. P. Nikol'sky, 7 pp.

RUSSIAN, per, Dokl Akad. Nauk SSSR, Vol XIX, No 5,
1956, pp 939-942. CIA 9011180

SLA Tr 57-786

Sci -

Aug 57

RF 1140699
End. 578

57-51
50,578

Organo-Phosphorus Insecticides. Some Analogues
of O-O-Diethyl-S-2 (Ethyl-Thioethyl) Phosphorothio-
lothionate (M-74) Less Toxic Towards Warm Blooded
Animals, by M. I. Kabachnik, T. A. Mastrykova, Yu.
M. Polikarpov, D. M. Paikin, N. P. Shabanova,
N. M. Gampar, L. F. Efimova, 5 pp.

RUSSIAN, thrice so per, Dok Ak Nauk SSSR, Vol
CIX, No 5, 1956, pp 947-949.

Sci Mus Lib Tr 57/1875

Sci - Chemistry, Biology
Nov 57

55, 114

S-2130

Organophosphorus Insecticides. Some Analogues
of O, O-Diethyl- -Ethylmercaptoethylthio-
phosphate (M-74), Less Toxic For the Warmblooded,
by M. I. Kabachnik, et al.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
CIX, No 5, Aug 1956, p 947.

13/3/57

Handwritten notes and signatures, including a signature that appears to be "M. I. Kabachnik" and a date "13/3/57".

Synthesis of Cycloserine, by E. K. Kochetkov,
E. F. Mucherova, M. Ya. Karpeisky, V. M. Solovyev,
4 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CLII,
No 5, Jul/Aug 1956, pp 950-953.

Consultants Bureau

56,646

Sci - Chem

Dec 57

The Structure of the Equilibrium Diagrams of
Multi Component Heterogeneous Systems, by L. B.
Palatnik, A. I. Landau, 4 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR Vol 62,
No 5, Jul/Aug 1956, pp 954-957.

Consultants Bureau

Sci - Chem

56,647

Dec 57

The Formation of Benzene Homologs and the Specific
Role of the Surface in the Thermal-Catalytic Trans-
formations of Isobutylene in the Presence of Benzene
Fluoride, by Ya. M. Faushkin, A. G. Khilzenrat, 4 pp.

RUSSIAN, thrice-a-week, Dok Ak Nauk SSSR, Vol CIX,
No 5, pp 958-961.
Jul/Aug 1956,

Consultants Bureau

56,653

Sci - Chem

Doc 57

Equilibrium Phase Diagrams of the systems H_2O - H_2O , H_2O - $CaSO_4$ - H_2O , $CaSO_4$ - H_2O and SiO_2 (quartz)- H_2O , by N. K. Styrikovich, I. Kh. Khaibullin, 4 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CII, No 5, Jul/Aug 1956, pp 962-966.

Consultants Bureau

Sci - Chem

56,654

Dec 57

Action of Atomic Hydrogen on the Polarized
Electrons in Electrolytic Solutions, by S. D.
Levina, T. V. Kalish, 4 pp.

Full tr

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CIX,
No 5, 1956, pp 971-974.

Navy Tr 1444/NRL 597

Sci - Nuclear Physics
1957 CTS/dex
Mar

45, 466

The Mechanism of the Setting of Gypsum in the Presence of Various Additions, by V. B. Ratinov, Y. L. Zab-zhinskiy, T. I. Rosenberg, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIX, No 5, 1956, pp 979-981.

SIA R-3387

Sci

Aug 59

94,156

Silica Gel and

Study of the Reaction of Adsorbed Organic
Molecules with the Acid Centers on the Surface
of ~~Silica~~ ^{Alumina} Gel by the Method of Infra-
red Spectra, by V. N. Filimonov, A. N. Terenin,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIX, No 5,
pp 982-985, 1956.

Assoc Tech Serv 46H3R

70,522

Sci - Chem
Aug 58

The Change in the Function of Christian Social Work
Muznashchennye na Bosting, by L. J. W...
Pyatikop, S. Ya. Gusharevsky, 3 77.

RUSSIAN, *Pravda*, *Dok. Ak. Nauk*, Vol. CXX, No. 5, 1950,
PP. 1009-1010. 9048317

Consultants Bureau

Sci. - Geography
Apr 60

115,060

On the Stabilization of Bicalcium Silicate, by
G. V. Kukolev et al.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CIX,
No 5, 1956, pp 1012-1014.

Co-Op Trans Sch Tr 354
£1.4s.

Sci - Chem
Jul 57

49,172

Oleynik, O. A.
ON DISCONTINUOUS SOLUTIONS OF NON-LINEAR
DIFFERENTIAL EQUATIONS. [1961] 9p. 6 refs.
Order from OTS or SLA \$1.10 61-14982

Trans. of Akad[emiya] Nauk SSSR (Dokl[ady]) 1956,
v. 109, no. 6, p. 1098-1101.

DESCRIPTORS: *Non-linear differential equations,
*Partial differential equations, Theory, Equations.

(Mathematics, TT, v. 6, no. 2)

61-14982

I. Oleynik, O. A.

16971

Office of Technical Services

61-14980

I. Vvedenskaya, N. D.

Vvedenskaya, N. D.
SOLUTION BY FINITE DIFFERENCES OF THE
CAUCHY PROBLEM FOR NON-LINEAR EQUATIONS
WITH DISCONTINUOUS INITIAL DATA [Resheniye:
Zadachi Koshi dlya Nelineynogo Uravneyiya s
Razryvnyimi Nachal'nymi Dannymi Metodom Konech-
nykh Raznostey]. [1961] 8p. 8 refs.
Order from OTS or SLA \$1.10

61-14980

Trans. of [Akademiya] Nauk SSSR (Doklady) 1956,
v. 111 [no. 3] p. 517-520.

Another translation is available from LC or SLA
mi\$2.40, ph\$3.30 as UCRL Trans-550(L) [1960] 11p.
(foreign text included).

10456

DESCRIPTORS: Non-linear differential equations,
Partial differential equations, Numerical methods
and procedures.

Office of Technical Services

(Mathematics, TT, v. 6, no. 2)

Reflection and Transmission of 7-24 μ Waves by Silica
Modifications, by N. A. Sevchenko, V. A. Florinskaya,
4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CIX,
No 6, Jul-Aug 1956, pp 1115-1118.

Amer Inst of Phys
Sov phys "Doklady"
Vol ¹¹ I, No 4

Sci - Phys
Aug 57

Gamma Radiation From the Collisions of Fast
Charged Pions With Nuclei, by A. G. Sitenko,

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec,
Vol. CIX, No. 6, Jul-Aug 1956, pp. 1119-

Amer Inst of Phys
Sov Phys "Doklady,"
Vol. I, No. 4

Sci - Phys
Aug 57

The Number of Ice Crystals in Supercooled Water, by
D. N. Bibikov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIX, No 6, 1956,
pp 1123-1125.

Assoc Tech Serv - RJ-1059

Sci ^{Gen} Phys

Jul 58

67,174

The Crystallization of Supercooled Water Subject
to Turbulent Mixing, by A. G. Kolesnikov, V. I.
Bak Belyayev, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIX, No 6,
1956, pp 1129-1132.

Assoc Tech Serv

HTS RJ-1156

Sci - Phys

Jul 58

67,175

The Action of Reduced Atmospheric Pressure and of
Certain Gases Upon the Ticks *Ornithodoros*
Papillipes Bir, by E. M. Pavlovskiy, I. K. Terentevskiy.

RUSSIAN, per, Dok Ak Nauk BSSR, Vol CIX, No 6,
Moscow, 1956, pp 1133-1135. CIA 9083760

USDA

Sci - Medicine
Nov 58

76,865

The Extraction of Niobium, Tantalum and Titanium
Cupferrates, by I. P. Alimarin, I. N. Gibalo, 4 pp.

^G
RUSSIAN, thrice-uo per, Dok Ak Nauk SSSR, Vol CIX,
No 6, pp 1137-1139.
Jul/Aug 1956,

Consultants Bureau

56,651

Sci - Chem

Doc 57

Study of the Structure of Cellulose by the X-ray Crystallographic Method, by I. E. Kozlov, V. I. Sharov, B. N. Gerasimova, 4 pp.

RUSSIAN, Zhurnal SVS, Dok Ak Nauk SSSR, Vol. 181, No 6, pp 1140-1143, Jul/Aug 1956,

Consultants Bureau

Sci - Chem

56,652

Doc 57

Thermal Stability of n-Paraffin Hydrocarbons Oxidized with
Wick Wires, by L. M. Rosenberg, G. H. Herzog, A. G.
Kochanek, A. V. Popov, 1 pp.

RUSSIAN, WIKS-ON PAR, Dok Akad Nauk SSSR, Vol. CLV,
No 6, Jul/Aug 1956, pp 1150-1150.

Consultants Bureau

Sci - Chem

56,873

Doc 57

62-16578

Shekhter, L. N., Myasnikov, I. A., and
Pshezhetskii, S. Y.
CORRELATION BETWEEN THE CATALYTIC
PROPERTIES OF ZINC OXIDE AND ZINC SULFIDE
AND THEIR LUMINESCENCE. [1962] 6p. (4 figs.
refs. omitted).
Order from OTS or SLA \$1.10 62-16578

I. Shekhter, L. N.
II. Myasnikov, I. A.
III. Pshezhetskii, S. Y.

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1956,
v. 109, no. 6, p. 1163-1166.

DESCRIPTORS: *Luminescence, *Sulfides, Oxides,
*Zinc compounds, Catalysis, *Semiconductors,
Conductivity, Crystals.

Experimental data show the existence of a linear
relationship between catalytic and luminescent prop-
ties of zinc oxide. These data confirm previous hy-
potheses on the nature of catalytic centers of zinc
oxide (at least in the relationship of the studied re-
(Physics--Solid State, TT, v. 8, no. 9) (over)

Office of Technical Services

(SF-173)

Theory of Optimal Processes, by V. G. Boltyanskiy,
R. V. Gamkrelidze, L. S. Pontryagin, 5 pp.

RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CX, No 1, 1956,
pp 7-10.

JPRS 4645

TIAS 11113

Sci - Phys

155, 439

Jun 61

Energy Distribution of Incoherent Radiation From
Synchrotron Electrons, by Yu. M. Ado, P. A.
Cherenkov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol
CX, No 1, 1955, p 35-

Amer Inst of Phys
Sov Phys "Doklady"
Vol. I, No 3 5

Sci - Physics
Aug 57

Equations With Variational Derivatives and Distribution Functions for Systems With Complex Interaction, by L. P. Bazarov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX, No 1, 1956, p 38.

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

Pseudoscalar Interaction in Nonlinear Meson Theory,
by A. Borgardt, 3 pp.

RUSSIAN, per, Dokl Ak Nauk SSSR, Phys Sec, Vol CK,
No 1, 1956, p 42-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

X-Ray Emission Spectra of Mn and Cu in a Heusler Alloy at Temperatures Around the Curie Point, by M. E. Valushtein, B. I. Kotliar, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol 11 CX, No 1, 1956, pp 44-

Amer Inst of Phys
Sov Phys 'Doklady'
Vol I, No 5

Sci - Physics
Aug 57

Reflection of Sound by Thin Rods in Water, by
L. M. Lyamshev, S. N. Rudakov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1,
1956, pp 48-51.

CIA/Z-355

Sci - Physics
May 57 CTS/dex

47,527

P. S. I. T-251

[Handwritten notes and scribbles]
Dol I 251
P. S. I. T-251

62-16671

Shuleikin, V. V.
ANALYSIS OF MEASUREMENTS OF LARGEST WIND-
CAUSED WAVES IN THE OCEAN (Analiz Izmerenii
Predel'no Bol'shikh Vetrovykh Voln v Okeane). [1955]
11 p. (foreign text included) 5 refs.
Order from ODS or SLA 51.60 62-16671

Trans. of Akademiya Nauk SSSR. Doklady, 1955,
v. 110, no. 1, p. 53-56.

DESCRIPTIONS: Water waves. Ocean waves. Wave
analysis. Wind. Turbulence. Meteorology. Oceanog-
raphy. Marine meteorology. Measurement.

To determine the quantitative characteristics of wave
formation an analysis is made of the elements of the
largest waves in the ocean on the basis of previous
theoretical considerations (Akad. Nauk SSSR Doklady
104: 397, 1955). (See also 61-27495)
(Earth Sciences--Oceanography, TT, v. 9, no. 3)

Office of Technical Services

Effect of X-Rays on the Early Period of
Embryogeny, by V. L. Kheisina, 6 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1,
1956, pp 57-60.
NIH 4-29-64

OTS-77-63-27823

Sci - Biol & Med
Jul 64

262,183

The Measurement of Diffusion Coefficients by
the Method of Continuous Measurement, by V. P.
Vasil'yev, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CX,
No 1, 1956, p 61. -63

9093222
CIA/FDD X-2478

Sci - Physics
Jul 57

49,189
SLA R-1741
AEC TN 2972
AEC T-100
N. P. Vasil'yev. V. 1956

Low Temperature Recrystallization of Metals,
by R. I. Garber, I. A. Gindin, V. S.
Kogan, B. G. Lazaryev, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CX, 1956, p 64.

ACCT 3980
CIA/PDD X-2480

Sci - Chem; Physics
Jul 57

49,192

LIR-1736

Crystal Structure of Dibenzoylferrocene,
by Yu. T. Struchkov, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX,
No 1, 1956, pp 67-70. P100006167
FTD-HT-66-500

Sci - SM?N
Feb 67

318,787

Synthesis and Polymerization of Vinyl Derivatives of
the Furan and Thiophene Series, by I. V. Andreyeva,
M. M. Kotom, 4 pp.

RUSSIAN, three-Mo per, Dok Ak Nauk SSSR, Vol CX,
No 1, Sep/Oct 1956, pp 570.

Consultants Bureau

Sci - Chem

56,655

Dec 57

Catalytic Demethylation of α -picoline to Pyridine
Under the Action of Water Vapor, by A. A. Balandin,
L. I. Sovalova, T. A. Slovokhotova, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1, 1956,
pp 79-82.

Sci - Chemistry
Oct 57

Assoc Tech Sv 73H13R

SLA 61-20577

54, 140

Complex Compounds of Divalent Platinum With
Aminobutyric Acid, by L. M. Volshtein, M. F.
Mozil'sevskina, 4 p.p.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol. 61,
No 1, Sep/Oct 1956, pp 83-86.

Consultants Bureau

Sci - Chem

56,656

Dec 57

On the Possibility of Obtaining $Ba(O_2)_2$, by I. I.
Vol'nov, A. N. Shatunina.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, CX, No 1,
1956, pp 87, 88.

Chemistry of Uranium
Navy Tr 1459/NRL 603

Sci - Chemistry
Apr 1957 CIB/dex

45,728

DS14T-1668

The Effect of the Microstructure of Polyisoprene on
Its Properties, by A. A. Korotkov, K. B. Plotrovsky,
D. P. Feringer, 4 pp.

RUSSIAN, three-no per, Dok Ak Nauk SSSR, Vol CI,
No 1, Sep/Oct 1956, pp 89-92.

Consultants Bureau

56,657

Sci - Chem

Doc 57

Dehydrochlorination of Dichloroisopropyltrichlorosilanes
and Methylation of Chloroisopropenyltrichlorosilanes,

by A. D. Fetisov, V. F. Mironov, V. G. Glukhortshev,

4 pp.

RUSSIAN, ~~zhurnale~~ per, Dokl Akad. Nauk SSSR, Vol CX,
No 1, 93-96.

Consultants Bureau

Sci - Chem

56,658

Doc 57

Some Derivatives of Dimethylpropane, by A. V.
Topchiyev, N. S. Kametkin, T. I. Chornysheva,
S. G. Dargoryan, 4 pp.

RUSSIAN, three-no per, Dokl Akad Nauk SSSR, Vol CX,
No 1, Sep/Oct 1956, pp 97-100

Consultants Bureau

Sci - Chem

56,659

Dec 57

62-33210

Povarov, G. N.
TO THE MATHEMATICAL THEORY OF THE
SYNTHESIS OF $(1, k)$ TERMINAL SWITCHING
NETWORKS. [1961] [6]p. 5 refs. MDF P-127.
Order from OTS or SLA \$1.10 62-33210

I. Povarov, G. N.
II. MDF P-127
III. Friedman, Morris D., Inc.,
West Newton, Mass.

Trans. of Akademiya Nauk SSSR. Doklady, 1956,
v. 110 no. 1, p. 102-104.

DESCRIPTORS: *Switching circuits, Circuits,
*Electrical networks, Synthesis, Special functions,
Theory.

Certain theorems on the construction of $(1, k)$ -terminal switching networks are explained. These theorems permit the number of switches in $(1, k)$ -terminal switching networks to be estimated for large k . (See also 62-11409) (Author)

(Engineering--Electrical, TT, v. 8, no. 10)

Office of Technical Services

61-15814

Boltyanskiy, V. G., Gamkrelidze, R. V., and
Pontryagin, L. S.
ON THE THEORY OF OPTIMUM PROCESSES, tr. by
E. Lyssenko and G. F. Hill. 23 Dec 60 [7]p. 1 ref.
ARGMA Trans. no. 111-60.
Order from LC or SLAmi \$1.80, ph \$1.80 61-15814

Trans. from Akademiya Nauk SSSR, Doklady, 1956,
v. 110, no. 1.

A general introduction is given to the study of optimum
processes.

1. Control systems--Theory
2. Control systems--
Mathematical analysis
- I. Boltyanskiy, V. G.
- II. Gamkrelidze, R. V.
- III. Pontryagin, L. S.
- IV. ARGMA Trans-111-60
- V. Army Rocket and Guided
Missile Agency, Redstone
Arsenal, Ala.

151931

Office of Technical Services

(Engineering--Electronic, TT, v. 5, no. 12)

The Action of Radioactive Cobalt (Co^{60}). γ - Radiation
on Proteins and Amino Acids, by M. A. Khenokh and E.
M. Lapinskaya.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 1, 1956,
125-2128.

p

SLA R-1981
AEC Tr 2886

Sci

Aug 58

71,197

Diamagnetic Resonance in Strongly Magnetic Bodies,
by I. G. Dorfman, 3 pp.

RUSSIAN, per, Doklady Akad. Nauk, SSSR, Vol CX,
No 2, 1956, pp 201-202.

S.L.A. Tr No R-329

Sci - Physics
Apr 57

46,989

*Amos... of the...
... ..
... ..
... ..*

Infrared Asymptotic Form of the Green's Function
for Electrons to Order e^4 , by L. D. Solov'ev, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol. CX,
No # 2, 1956, pp 293-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

Relation Between Electric Conductivity and
Pressure for Polycrystalline Selenium at Pressures
up to 30 000 atm, by P. T. Kozuyev, D. N.
Kuznetsov. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. 15, No. 2,
1956, pp 207, 208.

Sci Mag Lib 57/4308

73,371

Sci - Chem
Sep 58

Oxidation of Manganese Dissolved in Liquid
Iron, by B. V. Linchevskiy, A. M. Samarin.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol. CX, No 2, 1956, pp 209-211.

Henry Bratcher

Tr No 3893

\$2.50

43,122

Sci - Chemistry; Min/Metals
Mar 1957 CFS/dex

The Simultaneous Determination of Oxygen and Halides (Chlorine, Bromine, and Iodine) in Organic Compounds, by M. O. Korshun, E. A. Bondarevskaya, 4 pp.

RUSSIAN, three-no part, Dok Ak Nauk SSSR, Vol CX, No 2, Sep/Oct 1956, pp 220-222.

Consultants Bureau

Sci - Chem

56,660

Dec 57

Condensation of Aldehydes With Acetic Anhydride
in the Presence of Boron Acetate, by V. K. Kushov,
4 pp.

RUSSIAN, per, Zhurnal Khim. i Mekh. SSSR, Vol. 11,
No 8, Sep/Oct 1956, pp 223-225

2

Consultants Bureau

Sci - Chem

56, 663

Doc 57

A Synthesis of Alicyclic 1,5-Diketones Based on
Mono- and Diarylidene-cyclanones, by M. M. Zhil-
chenko, V. G. Kharchenko, 4 pp.

RUSSIAN, per, Thrice-mo, Dok Ak Nauk SSSR, Vol 61,
No 2, Sep/Oct 1956, pp 226-229.

Consultants Bureau

Sci - Chem

56,664

Dec 57

TRANSFORMATIONS OF ORTHO- AND PARA-NITROTOLUENES IN
ALKALINE MEDIUM, by M. N. Shchukina, G. S. Prdvoditeleva,
97.

RUSSIAN, Khimiko-tekhn. Dokl. Akad. Nauk SSSR, Vol. 61,
No 2, Sep/Oct 1956, pp 230-234.

Consultants Bureau

Sci - Chem

56,661

REVERSE TRANS to French
by OTC 62-26917

Doc 57

Effet Isotopique Dans L'Equilibre Liquide-Vapeur De
Systemes Binaires Renfermant Des Composes Deuterés.
(Isotopic Effect in the Liquid-Vapor Equilibrium of
Binary Systems Containing Deuterated Compounds),
by I. B. Rabinovich (Rabinovitch), P. N. ~~NIKOLAYEV~~
Nikolayev, Z. E. Gochaliyev (Gotchaliev), N. N.
Tretyakova (Tretiakova), 10 pp.

FRENCH from ~~RUSSIAN~~ RUSSIAN, per, Dok Akad Nauk SSSR,
Vol CX, 1956, pp 241-244.

Reverse Translation
AEC/CEA-Tr-R243

On a Problem of Finite Span Wing Theory, by S.
S. Grigorian, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 3,
1956, pp 348-350.

Morris D. Friedman
G-135
2.50

Sci

Aug 58

71,496

To a Macroscopic Theory of Superconductivity
Suitable at All Temperatures, by V. L. Ginzburg,
7 pp.

X

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CM, No 3,
1956, pp 358, 361.

SLA TR R-678

Sci - Electricity

Aug 57

50,631

*Answer sent to [unclear]
Scientific Department [unclear]
Vol 1, No 3
1956*

Exchange Interaction on Certain Paramagnetics,
by S. K. G. Kashay, 5 pp.

choice
RUSSIAN, no per, Doklady Akad. Nauk SSSR, Vol CX,
No 3, 1956, pp 362-365.

S.L.A. Tr R-423

Sci - Electronics
May 57

48,742

W. H. ...
Answer to ... of ...
... ..
...

On the Isotope Shift in the Spectrum of
Neodymium, by F. A. Karolev, Yu. I. Osipov, 3 pp.

RUSSIAN, Dokl Ak Nauk SSSR, Phys Sec, Vol CX,
No 3, 1956, pp 365-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

Dispersion Relations for the Photoproduction of
Pions, by A. A. Logunov, D. M. Stepanov, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,
No 3, 1956, pp 366-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

On Thermal Agitation in Distributed Systems, by
S. M. Rytov, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,
No 3, 1956, pp 371-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

Investigation of the n-Paraffinic Hydrocarbons in the
200-250^o Fraction of North Petroleum by Means of Mass,
by Yu. I. Arshidze, E. M. Benschvili, 4 pp.

RUSSIAN, ~~zhurnal~~ Zhurnal, Dok Ak Nauk SSSR, Vol 61,
No 3, Sep/Oct 1956, pp 307-309.

Consultants Bureau

Sci - Chem

56,662

Doc 57

The Mechanism of the Trans Effect, by S. S. Batsanov.

RUSSIAN, per, Doklady Akad Nauk SSSR, Vol CX, No 3,
1956, pp 390-392.

Sci - Chemistry
Aug 57

Assoc Tech Sv

\$5.75

Te

RJ-780

ATS-41515R

51,538

The Application of Hammett's Equation to Organic
Compounds of Elements. The Ionization Constants
of Phosphorus Acids, by M. I. Kabachnik.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol CX,
No 3, 1956, pp 393-396.

T.I.L. Tr 4782

Sci - Chemistry
Jun 57

48, 848

TF-62-28165

Ragoiskaya, I.A.
 PROPRIÉTÉS RÉDUCTRICES ET OXYDANTES DE
 L'HYDROGÈNE ATOMIQUE DIFFUSÉ À LA SUR-
 FACE D'ÉLECTRODES POLARISÉES BAIGNANT DANS
 DES SOLUTIONS ALCALINES (Vosstanovitel'nye i
 Okislitel'nye Svoystva Diffundiruyushchego Atomnogo
 Vodoroda Na Poverkhnosti Poliarizovannogo Elektroda
 v Shchel'nykh Rastvorakh (Redox Properties of
 Diffused Atomic Hydrogen on the Surface of a Polarized
 Electrode in Alkaline Solutions). 12p. (Foreign text
 included refs. CNRS-VIII 81: 402)
 Order from OIS, EIC or CNRS \$1.00 TF-62-28165

Tr. Inst. Khimii Akademiya Nauk SSSR, Doklady
 1954, no. 11, p. 797-806.

DESCRIPTORS: *Electrodes, *Polarization, Alkaline
 cells, Hydrogen, Atoms, *Oxidation, Iron, Diffusion,
 Oxidation-reduction reactions.

(Chemistry - Physics), TF, V. 11, no. 11

Ragoiskaya, I.A.
 E. CNRS-VIII 81: 402
 III. Centre National de la Recherche
 Scientifique, Paris

Order from OIS or
 EIC for \$1.00 each

The Chemistry of Active Molecules Arising^S
from Mechanical Degradation of Polymers,
by A. A. Berlin.

RUSSIAN,

per, Dok Ak Nauk SSSR, Vol CX, No
3, 1956, pp 401-403.

ASLIB-GB39

SLA 60-10000

Sci

Aug 58

72,484

Structure of Adsorbates of Mg-Phthalocyanin on
MgO, Al₂O₃, ZnO, Glass and Their π Fluorescence,
by V. F. Gachkovskiy, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CX, 1956, pp 408-410.

SIA R-1351

May 58

64,625

Trapa L. Pollen in Tertiary Deposits of the
Enisei Mountains, by P. A. Popov.

RUSSIAN, per, Doklady Ak Nauk SSSR, Vol. CX, No 3,
1956, pp 453-456.

Assoc Tech Sv
\$6.50 Tr RJ-759

Sci - Geophysics
Aug 57

51,762

47315R

61-19673

Aleksandrov, V. Ya. and Arronet, N. I.
ADENOSINETRIPHOSPHATE CAUSES MOVEMENT OF
THE CILIA OF CILIATED EPITHELIUM KILLED BY
EXTRACTION WITH GLYCEROL ("CELL MODEL")
(Adenozintri[fosfat Vysyvayet Dvizheniye Resnitchek
Meritsatel'nogo Epitelliya, Ubitogo Glitserinovoy
Ekstraktseyey ("Kletchnaya Model'")). Apr 61 [6]p.
12 refs. RTS 1792.

Order from OTS or SLA \$1.10

61-19673

Trans. of Akademiya Nauk SSSR Doklady, 1956,
v. 110, no. 3, p. 457-460.

DESCRIPTORS: *Adenosine phosphates, *Cells(Biology),
Motion, *Tissues(Biology)

(Biological Sciences--Biochemistry, TT, v. 6, no. 1)

1. Title: Cilia
2. Title: Cell model
- I. Aleksandrov, V. Ya.
- II. Arronet, N. I.
- III. RTS-1792
- IV. Department of Scientific
and Industrial Research
(Gr. Brit.)

101810

Office of Technical Services

Pleuston Biocenosis of Siphonophora by
A. Savilov,
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX,
No 3, 1956, pp 476-479.
Dept of Inter No
GCI E57 No 51.

SLA TT-65-64366

Sci-B&M
Jun 66

302,3134

The Role of Vitamin C in the Mechanism of the
Reactive Inhibition of Cell Division Observed
in the Case of Pain Stimuli Inflicted Upon
Animals, by J. S. Strelin, et al. UNCLASSIFIED

RUSSIAN, per. Dok Ak Nauk SSSR, Vol IX, No 1,
1956, pp 183-185.

Co-Op Fr Seb
Fr 466

Sci - Chem
Sep 58

73,075

Efros, D. A.
A DETERMINATION OF THE HIGHEST YIELD OF
ANHYDROUS AND GASFREE OIL FROM IM-
PERFECT WELLS WITH THE AID OF THE VIS-
COSITY ANALOGY METHOD. 10p 9ref MTWL-1140
Order from OTS or ETC \$0.80 63-26596

Trans. of Akademiya Nauk SSSR, Doklady, [1956]
v. 110, no. 4, p. 527-530.

DESCRIPTORS: *Petroleum, *Oils, Gases, Production,
Viscosity, Analog systems, Determination.

(Materials--Fuels, TT, v. 10, no. 10)

63-26596

- I. Efros, D. A.
- II. MTWL-1140
- III. Stichting voor Moedelijk Toe-
gankelijkhe Wetens-
chappelijke Literatuur
(The Netherlands).

Office of Technical Services

On the Departure From Weak Coupling in the
Doubly-Charged Meson Σ Field Theory, by I. F.
Ginzburg, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,
No 4, 1956, pp 535-

Amer Inst of Phys
Sov Phys "Doklady"
Vol X, No 5

SRI Sci - Phys
AUG 57

Total p-d Cross Section From 370 to 650 Mev, by
V. P. Dzhelepov, V. I. Moskalev, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,
No 4, 1956, pp 539-

Amer Inst of Phys
Sov Phys "Doklady"
Vol I, No 5

Sci - Physics
Aug 57

An Experimental Investigation of the Angular
Distribution and Polarization of Optical Radiation
From Electrons in a Synchrotron, by F. A. Korolev,
V. S. Markov, E. M. Akinov, and O. F. Kulinkov, 3 pp.

RUSSIAN, per, Dokl Ak Nauk SSSR, Phys Sec, Vol CX,
No 4, 1956, pp 542-

Amer Inst of Phys
Sov Phys "Doklady"
Vol, No 5

Sci - Physics
Aug 57

The Potential in Pair Theories of Nuclear Forces, by
Yu. M. Izusadze, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys Sec, Vol CX,
No 4, 1956, pp 545-

Amer Inst of Phys
Sov Phys "Doklady
Vol I, No 5

Sci - Physics
Aug 57

A Method of Investigating the Electronic States
of Diatomic Molecules. The Electronic States
and Bond Distances of Alkali Metals and Their
Hydrides, by F. Sh. Shifrin, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Phys, Sec, Vol CX,
No 1, 1956, pp 549-

Amer Inst of Phys
Sov Phys - Monthly
Vol. I, No 5

Sci - Physics
Aug 57

The Production of High-Current Pulses, by V. S.
Komsel'kov, G. N. Arstov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 4,
1956, pp 559-561.

ATS RJ-1733
ATS 9K26R

Sci - *Engr, Electron*
Jul 59

90,46Z

Effect of Surface-Active Lubricants Upon the
Drawing of Metal Wire, by V. D. Chistota, S. Ya.
Veiler, V. I. Likhtman, P. A. Rebinder.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CX,
No 4, 1956, pp 562-565.

Henry Bratcher

Tr No 3872

\$3.90

45,123

Sci - Min/Metals
Mar 1957 CTS/dex

Sci res sub 57/2817

Purity and Crystallization Temperature of Some
Organic Compounds, by A. G. Arlikin, et al, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CX,
No 4, 1956, pp 567-570.

Sci Mus Lib Tr 57/0785

Sci - Physics
Jul 57

49,806

Catalytic Hydrogenation of Triptycene Derivatives, by
A. A. Balandin, E. I. Klabunovsky, 6 pp.

RUSSIAN, three-~~so~~ per, Dok Ak Nauk SSSR, Vol CX,
No 4, Sep/Oct 1956, pp 571-574.

Consultants Bureau

Sci - Chem

56,665

Dec 57

Stereochemistry of Symmetrization Reactions of 3-
Bromocyclohexanone, by O. A. Reutov, Li Tsia-Chen,
4 pp.

RUSSIAN, three-no per, Dok Ak Nauk SSSR, Vol CX,
No 4, Sep/Oct 1956, pp 570-577.

Consultants Bureau

Sci - Chem

56,666

Doc 37

Investigation of the Adsorption and Surface
Reactions of Ethyl Alcohol on Aluminum Oxide by
the Method of Infrared Spectroscopy, by
A. A. Babushkin, A. V. Uvarov, 5 p.

DO
RUSSIAN, per, Dok Ak Nauk SSSR, 1956, Vol CX,
No 4, pp 581-584.

CMT-508TT

61-17325
107,046

Sci
Feb 60
Vol 2, No 9

62-14578

I. Dontsova, E. I.

Dontsova, E. I.
ISOTOPIC EXCHANGE OF OXYGEN BETWEEN
MINERAL OXIDES AND CO₂ AND THE USE OF
ISOTOPIC EXCHANGE FOR DETERMINING THE EX-
TENT OF THE ACTIVE SURFACE (Izotopnyi Obmen
Kisloroda Mineralov-Oksidov s CO₂ i Ego Ispol'zovanie
dlya Opredeleniya Velichiny Aktivnoi Poverkhnosti).
[1962] [11] p. (foreign text included) 2 refs.
Order from OTS or SLA \$1.60 62-14578

Trans. of Akademiya Nauk SSSR. Doklady, 1956,
v. 110 [no. 4] p. 589-592.

DESCRIPTORS: *Minerals, *Oxides, *Oxygen, *Carbon
dioxide, *Exchange reactions, Radioactive isotopes,
Isotopes, Powders, Temperature, Silicon compounds,
Aluminum compounds, Manganese compounds, Iron
compounds.

(Nuclear Physics and Nuclear Chemistry, TT, v. 8,
no. 5)

Office of Technical Services

Mairanovskii, S. G.
POLAROGRAPHIC BEHAVIOR OF QUARTERNARY
PYRIDINE SALTS, tr. by G. N. Kasachkoff and G. F.
Hill. 30 Jan 62 [9]p. 16 refs. [AMC]Redstone
Traps-nr 7-62.
Order from OTS or SLA \$1.10 62-19000

Trans. of Akademiya Nauk SSSR. Doklady, 1956,
v. 110, no. 4, p. 593-596.

DESCRIPTORS: *Electrochemistry, *Polarographic
analysis, *Pyridines, Pyridine derivatives, Lutidine,
Salts, Chemical reactions, Electrolysis, Reduction,
Catalysis, Mercury electrodes.

An investigation is made of the polarographic behavior
of benzolsulfonate N-methylpyridine, iodides of
N-ethylpyridine and N-isopropylpyridine, benzolsulfo-
nates of N-methyl- δ -picoline, N-methyl- α , α -lutidine,
N-methyl- γ -ethylpyridine and iodized N-isopropyl- α ,
(Chemistry--Physical, TT, v. 9, no. 7) (over)

62-19000

- I. Mairanovskii, S. G.
- II. AMC(Redstone) Trans-7-62
- III. Army Missile Command,
Redstone Arsenal, Ala.

Office of Technical Services

10 798

GE-1

S. G. MOKRUSHIN, Yu. V. VARVAS

Electrophoresis of dispersed particles at the dividing surface
between liquid and gas

Elektrophorese disperser Teilchen an der Flüssigkeit-Gas-
Zwischenfläche

Doklady Akad. Nauk SSSR, 110, No. 4, 597-600 (1956)

German

E u r a t o m