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Deutero-Compounds, by I. B. Rabinovich, et al, 10pp.

RUSSIAN, per, Dok Ak Nauk SSSR, CV, No 1, 1955,
pp 108-111.

NRCC- TT-875

Sci - Physics
Jan 61

RUSSIAN to FRENCH
OTS TT-62-28741

136,401

Electrical Conductivity of Concentrated Aqueous
Solutions of HCl , NaCl and KCl at High Temperature,
by I. M. Rodnyanskiy, N. S. Galinker.

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INSDOC-T1572

ATS RJ-858

Sci -
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of Copper and Chromium, by E. A. Ukhov, A. I.
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CIA/FID X-2212

Sci mus sub 56/1896

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NLL m. 3914

Sci - Physics
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4 pp.

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ATS-OLM43R

ATS/RJ-2538

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Sci
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Sci Mus Lib No 56/2312

Sci - Physics

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Coacervates and Enzymes. Protein-
Carbohydrate Coacervates and Beta-
Amylase. by T. N. Evreinova, et al.
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Vol CV, No 1, 1955, pp 137-140.
NASA TT F-10,685

Sci-B&M
Mar 67

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Use of Continued Fractions for Discovering
Solutions of Integral Equations, by I. M. Stasin,
8 pp.

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AEC Tr 2689

SLA R-1627

Sci - Mathematics

Jul 57 CTS

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See memo to 57/0222

On Nonlinear Oscillations in Systems With Varying
Parameters, by V. O. Kononenko, 6 pp.

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Morrin D. Friedman K-151

Scientific - Physics

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May 56 CTS/dez

Observations of the Production and Decay of
Unstable Particles in Emulsions, by V. V. Al'pers,
R. I. Gerasimova, I. I. Gurevish, A. P. Mishakova,
and L. V. Surkova, 12 pp.

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AEC Tr-254⁵

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Sci - Chemistry

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No 2, p 244-247

SLA 61-17498
Consultants Bureau

\$3.50 37,284

Scientific - Physics

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The Dispersion of the Speed of Sound in Carbon
Disulphide, by V. A. Molchanov, I. L. Fabelinskiy,

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pp 248-249,

UKSM T.1689

Sci - Physics

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Sep 57

The Diffusion of Chromium in Nickel Base
Solid Solutions, by P. L. Cruzin, G. B.
Fyedorov

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AEC Tr 2432

Scientific - Chemistry; Min/Metals
Apr 56 CTS/dex

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Faunistically new Cephalopods for the
Far-Eastern Seas of USSR, by

I. I. Akimushkin,

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Minis of Def T No 3373

DSTI/D154(S)a

London

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Geog

Apr 66

298,565

Isotope Exchange of Sulphur Atoms in Accelerating
and Vulcanizing Materials in the Presence of
Bis(2,2,6,6-tetramethyl-1-piperidin-1-yl) Diphenylguanidine and Phenyl- β -naphthyl-
amine by G. A. Blokh, E. A. Golubkova, K. V.
Kurskaya. 7 p.

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Scientific Chemistry

Dec 56 CTS

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Synthesis of Acid Chlorides of Silicon-Substituted
Ethylphosphinic Acids, by E. A. Chernyshev, A. D.
Petrov

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No 2, 1955, pp 282-285.

Assoc Tech Sv RJ-485

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Sci - Chemistry
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CSIRO GB 39

Sci - Chem
Apr 62

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Kinetics of Thermal Decomposition of n-Propyl
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G. B. Sergeyev, G. A. Kapralova, 9 pp. UNCL

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Sci - Chem
Mar 59

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Scientific - Geophysics

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Spin and Parity of the γ -Meson, by I. I. Gurevich,
A. P. Mishakova, 5 pp.

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AEC Tr 2840

Sci - Physics
Apr 57 QTS/dex

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Liquid-Vapor Phase Diagram of the He³-He⁴ System,
by B. N. Eselason, N. G. Beronzyuk,

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~~XXXXX~~ No 3, p 454-457

37,285 SLA 61-17497
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CCT 12818
#3 \$3.50

Scientific - Physics

Aug 1956

The Effect of Low Temperatures on the Lubricating
Capacity of Mineral Oils, by R. M. Matveyevakiy

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1956, pp 494-496.

Assoc Tech Sv RJ-465

\$3.80

Sci - Engineering, Fuels

Jan 57 CTS

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Direct Synthesis of Polysilane Chlorides From
 α and β -Chloroalkylsilane Chlorides, by S. I.
Sadykhzade

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Sci - Chemistry
Jan 57 CTS

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On the Question of Chemical Combinations Between
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IC or HLA 59-10016

HE 4797

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Feb 59

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EOC INTERNAL USE ONLY

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Sci - Minerals/Metals, Chemistry

May 1956

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The Temperature Independent Paramagnetism
of Potassium Hexachloro-Osmate, by Y. K. Syrkin,
V. N. Belova, 2 pp.

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Sci - Chemistry

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Daily Dynamics of Chlorophyll Content in Potato
Leaves, by E. R. Gyubbenet, N. V. Bazhanova,
3 pp.

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SLA Tr R-1341

Sci

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Nutrition of Diptera Tenebrionidae by Means of
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Sci -
July 1967

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~~Micro-Organisms~~ Micro-Organisms as Fish Food, by
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Jun 58

Fisheries Board

Canada

Vancouver Station

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On Oscillations in Nonlinear Systems With
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NDF K-132

Sci
Nov 61

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Study of Sky Brightness in the Region Around
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UNCLASSIFIED

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Dir Sci Info Sv
DRB, Canada
T 274 R

Sci - Astron
Aug 58

69,433

Bakulina, I. N. and Ionov, N. I.
CONCERNING THE ENERGY OF ELECTRON
AFFINITY OF HALOGEN ATOMS, tr. by George N
Kasachkoff and George F. Hill. 9 May 62 [7]p. 4 refs.
[AMC] (Redstone) Trans-nr 22-62.
Order from OTS or SLA \$1.10

62-24798

Trans. of Akademiya Nauk SSSR. Doklady, 1955,
v. 105, no. 4, p. 680-682.

DESCRIPTORS: *Potassium compounds, *Halides,
Chlorides, Bromides, Iodides, Fluorides, Mass
spectroscopy, *Electrons, Electron capture, Energy.

The energy of the electron affinity of fluorine atoms
was proven to be considerably less than that of chlorine
atoms and differs only by a few hundredths of an elec-
tron volt from the energy of the electron affinity of
bromine atoms. (Author)
(Physics--Molecular, TT, v. 9, no. 8)

62-24798

I. Bakulina, I. N.
II. Ionov, N. I.
III. AMC(Redstone) Trans-22-62
IV. Army Missile Command,
Redstone Arsenal, Ala.

Office of Technical Services

Angular Distribution of Fragments in Uranium²³⁸
Fission Induced by Neutrons of Various Energies,
by A. A. Varfolomeyev, A. S. Romantseva, V. M.
Kutukova, 3 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CV, 1955, pp 693-695.

ARC Tr 2386

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Scientific - Physics

Mar 56 CTS/DEX

Sci. Rep. No 56/3068
Ac. R. S. Varfolomeyev, A. S. Romantseva, V. M. Kutukova

Electron-Optical Images of Ferromagnetic Domains,
by G. V. Spivak, N. G. Kuvshinov, I. S. Sbitnikova,
T. N. Dombrovskaya. (AF-717347)

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV,
~~XXXXXXXXXX~~ No 4, p 706.-708

*F-TS-9119/V

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SLA 61-17496

\$3.50

Scientific - Physics

Aug 1956

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H-TS-RJ-589

Luminescence and Light Absorption of Diamond, by
G. O. Gomon.

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Co-Op Trans Sch Tr 294
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Sci - Physics
Feb 1957 CTS/dex

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On Investigating Unstable Complex Compounds in
Solution by Their Absorption Spectra, by
S. A. Shchukarev, O. A. Lobanova, 7 pp.

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AEC Tr 2486

Sci - Physics

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Electron-Microscope Study of the Hydration
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Vol CV, No 4, 1955, pp 744-745.

Assoc Tech Sv RJ-527
\$5.95 (\$1.45)

- Chemistry
Apr 1957 CTS/dex

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The Nature of the Nitrogen-Containing Substances
in Sedimentary Deposits of the Ancient Caspian
and the Apsheron Formations, by N. T. Shabarova.

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1955, pp 774-776.

Assoc Tech Sv
\$4.65 Tr RJ-754

Sci - Chemistry
Aug 57

51, 754

Mass Transfer in the Process of Film-Rectification-
Laminar Vapour Flow, by V. A. Malyusov, et al.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 4,
1955, p 779.

NLL M. 2754

OTS 61-2334

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Sci - Phys

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A New Mineral Ferroselite, by E. Z.
Buryanova and A. I. Konkov, 5 pp.

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Sci

Jul 58

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Biogenetic Elements in the Soil Solutions
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Vol EE CV, No 4, 1955, pp 828-831.

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SCI - Geophys

Mar 62

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Fisheries Board
Canada
Nanaimo Station

The Strengthening of Glass by Tempering, by I. I.
Kitaygorodskiy, V. L. Indenborm, 4 pp.

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Sci
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Vol 2, No 7

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The Hypotensive Function of the Pancreas, by S. V. Andreyev,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 4, 1955, pp 848-851.

ATS RJ-2280

Sci - Med

May 60

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The Effect of Mechanical Agitation at Different
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Salmon, by A. I. Smirnov.

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M QH301, C273, No 230
NCC - C-3240

Sci - Biol
Sep 60

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On the Problem of Lithium, Beryllium and
Deuterium Content in the Solar Atmosphere, by
I. S. Shklovskiy, 4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
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ABC Tr 2757

Sci - Geophysics
Jun 57

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SLA 1719

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Ferromagnetics, by N. S. Akulov, 7 pp.

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Scientific - Nuclear Physics
Jun 56 CTS/dex

Fine Structure of the Basic X-Ray K-Absorption Spectrum of
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I. B. Staryy, et al, 5 pp.
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JPRS 23510

Sci-Mar & Met
Mar 64

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Pion Pair Production by Gamma Radiation and Pion
Bremsstrahlung, by Yu. A. Vdovin, 5 pp.

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AEC Tr 2833

Sci - Physics

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Mar 57/CTS

An Effective Potential for the Pion-Nucleon
Interaction, by V. R. Velibekov, V. A.
Meshcheryakov, 4 pp.

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Vol CV, 1955, pp 951-954.

AEC Trans 2412 SLA 61-17495

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Sci - Nuclear Physics

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The Production of Negative Ions by Charge
Exchange, by V. M. Dukelsky. UNCL

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 5,
1955, pp 955-957.

CCT-807B

Sci - Electronics
Sep 59

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Magnetic Contrast in an Electron Mirror and the Observation of Ferromagnetic Domains, by G. V. Spivak, I. N. Prilezhayeva, V. K. Azovtsev, 6 pp.

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Morris D. Friedman

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Sci - Physics
Dec 56 CTS

Sci 10-2008

Application of the Photoresistance of CdS in
Combination With Phosphors as a Detector for
Cobalt-60 Gamma Rays, by S. D. Margolin, I. G.
Fakidov,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, 1955,
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AEC Tr-4000

Sci - Chem

May 60

117,363

Tetra-1-Pyrryl Borate Salts, by V. A. Susanova,
L. P. Borokina, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 5, 1955,
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IC or SLA 59-10027.

Sci - Chemistry
Feb 59

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Inhibition and Acceleration of the Cracking of
Paraffin Hydrocarbons by Additions of Tetramethyl
Ethylene, by A. D. Stepukhovich, E. E. Nikitin,
7 pp.

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Sci - Physics

42,858

Role of Diffusion in the Phenomenon of Adhesion of
High Polymers, by S. S. Voyutskiy, A. I. Shapovalova,
A. P. Pisarenko, 3 pp.

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No 5, 1955, pp 1000-1002.

Sci - Physics
Nov 57

SLA R-939
Sci Mus Lib Tr 57/1526
NLL m. 2920
55, 090

Mechanical Properties of Mixtures of Carbon
Black With Vaseline Oil, by V. A. Kargin,
G. L. Slonimskiy, Ye. V. Restsova, 6 pp.

RUSSIAN, per, Dok Ak Bank SSSR, Vol CV,
No 5, 1955, pp 1007-1009.

OTS 60-16656

Sci

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30 Mar 62

The Nature of the Slow Sorption of Gases by
Solids, by N. I. Tenkin, N. V. Kul'kova, 8 pp.

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No 5, 1955, pp ~~101~~ 1021-1023.

Sci Tr Center
RT-3955

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Sci - Chemistry
Sep 56 CTB/dax

RUSSIAN to FRENCH
075 77-62-28605

S-124/60

(NY-3594).

On the Effect of the Charge of the Substance
and the Dielectric Constant of the Solvent Upon
the Velocity of Hydrogen Exchange, by A. I.
Shatenstein, Ye. A. Yakovleva, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 5,
1955, pp 1024-1027.

JPRS 2634

Sci - Chem
May 60

116,682

(FDD 27763)

Influence^e of Change in the Structure of Bacterial
Protoplasts on Respiration and Inclusion of Labeled
Glycine, by A. I. Oparin, N. S. Gel'man, I. G. Zhukov,
8 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV,
No 5, Moscow, 1955, pp 1036-1039.

S.L.A.P.-377

CIA/FDD U-8642

✓
USSR

38,996

Sci - Chemistry, Biochemical; Biology

Aug 56 CTS/DEX

Malyusov, V. A., Umnik, N. N., and Zharoronkov, N. M.

MASS TRANSFER IN PROCESSES OF FILM RECTIFICATION - TURBULENT VAPOR FLOW (Massoobmen v Protsesse Plenochnoi Rektifikatsii - Turbulentnyi Potok Para). [1961] 3p. 8 refs. (DSIR LLU) M. 2748.

Order from OTS or SLA \$1.10

61-23320

Unedited trans. of Akademiya Nauk SSSR. Doklady 1955, v. 105, no. 5, p. 1057ff.

DESCRIPTORS: Vapors, Turbulent flow, Separation, *Mass transfer.

The equation $h_{og} = 11.1d^{0.64}Re^{0.23}Pr^{0.67}$ is recommended for calculating the rectification process in the range of Reynolds numbers $Re = 100$ to $15,000$. (See also 59-18628, 61-23315) (Chemistry--Physical, TT, v. 7, no. 7)

61-23320

- I. Malyusov, V. A.
- II. Umnik, N. N.
- III. Zharoronkov, N. M.
- IV. DSIR LLU M. 2748

Office of Technical Services

The Role of Tissue Sulphydryl Groups in the Formation of Spreading Depression of the Bio-Electrical Activity of the Cerebral Cortex, by ~~Dr.~~ Buresh (J. Bures), Kh. S. Koshtoyants, (~~Assoc. Member of the Academy of Sciences, USSR~~) 8 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CV, No 5, 1955, pp 1118-1120.

NIH Tr No 1-10

OTS-TT-64-19498
43,219

Sci - Medicine
Jan 1957 CTS/dex

The Motion of Small Solid Particles in a Free
Air Stream, by A. P. Chernov.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 6,
1955, p 1170.

MLL M. 2744

OTS 61-23324/
180,033

Sci - Phys

Jan 62

The Change in the Rotation of the Sun Caused by
Matter Falling into the Sun under the Poynting-
Robertson Effect by V. S. Safronov, 9 pp.

RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol CV,
No 6, 1955, pp 1184-1187.

ATIC NCL-78/1.

Sci
Geophys
Dec 60

184,071

Concerning the Electrical Conductivity
and the Self-diffusion Coefficient of
the Ag Ion in AgI, by V.I. Baranovskiy,
et al.

RUSSIAN, per, Doklady Akad. Nauk, SSSR
Vol. 105, 1955, pp. 1188-1191

*CFSTI TT 70-57019

Sci/phys
Feb 70

Mass Differences of Elementary Particles, by A.
Brodsky, D. Ivanenko, N. Korst.

RUSSIAN, 1/2 thrice-no per, Dok Ak Nauk SSSR, Vol CV,
No 5, p 1192. - 1195

37,287

Consultants Bureau

\$3.50

Scientific - Physics

Aug 1956

SLA 61-17494

Some Principles in the Structure of the Basic X-Ray
K-Absorption Edge of Atoms in Crystals of Alkali Halides,
by E. Ye. Vaynshteyn, R. L. Barinakiy, et al, 6 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 6, 1955,
pp 1196-1199.

JPRS 23510

Sci-Mar & Met
Mar 64

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Electric Resistance and its Variation in Weak
Magnetic Fields for ~~XXX~~ Iron-Nickel Alloys in
the Low ($14-90^\circ$), by E. Kondorskiy, I. Ozhigov,
6 pp.

RUSSIAN, per, Doklady Akad. Nauk SSSR, Vol CV,
No 6, 1955, pp 1200-1203.

S.L.A. Tr R-197

Sci - Engineering
May 57

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Nuclear Interaction of π^- Mesons in Copper, by
N. M. Kocharyan, G. S. Saakyan, M. T. Aivazyan,
Z. A. Kirakosyan, and A. S. Aleksanyan.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR,
Vol CV, 1955, pp 1204-1207.

36,278

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RT-3587

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