

Photographic Material With a Constant Coefficient
of Contrast in the Visible Region of the Spectrum, by
A. V. Borin, A. F. Makovskiy, M. G. Olintsov, S. A.
Ivleva, V. I. M Avvakumov, ~~1954~~ pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol ~~XXII~~^{XXIV}, No 8, 1954,
pp 1499-1502.

COA/FDD X-2208

Sci - Physics
Nov 1956 CTS/dex

40,793

How Does a Soap Bubble Burst, by M. Kornfeld. UNCL

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 8, 1954,
pp 1520-1521.

*DSIR/TCL 70

Phys
Sci - ~~Chem~~
Mar 59

Temperature Dependence of the Magnetic Properties
of Nickel-Zinc and Copper-Zinc Ferrites, by A. I.
Suchkov, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, No 9,
1954, pp 1579-1583.

Morris D. Friedman S-K-1
\$3.50

38,235

Sci - Physics

Ferroelectric Properties of Solid Solutions of Barium Zirconate in Barium Titanate, by G. A. Smolenskiy (Smolensky), N. P. Tarutin, N. P. Grudtsin, 10 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, 1954, pp 1584-1593.

40,483

ABC Tr 2625

Sci - ~~Electricity, Chemistry~~, Physics
Nov 56 OTS

On the Question of Temperature Dependence of
the Thermal e.m.f. of Impurity Semiconductors,
by T. A. Kontorova, 17 pp.

RUSSIAN, per, Zh. Tekh. Fiz., Vol XXIV, No 9,
1954, pp 1687-1696.

Morris D. Friedman

\$8.50

Sci-Physics

26,857

Sep 1955 CTS/DEX

On the Theory of Coupled Cavity Resonators, by
A. I. Akhiezer, G. Y. Lyubarsky, 14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 9, 1954,
p 1697-1706.

SLA R-2777

Sci

Jul 59

91,309

Method of Determining the Physical State of a
Substance Adsorbed by a Fine Poreed Adsorbent, by
A. G. Gordon.

RUSSIAN, Proc. Engl. Wash. Div., Vol. XXIV, No. 10, 1954,
pp 1745-1750.

Co-Op. Ser. Sci. 195
£1.1s. (6s.0d.)

39,537

Sci - Physics

Automatic Recording Magnetolectric Balance, (y) M. A.
Gurevich, K. P. Malys~~o~~-Malitskiy, 8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 9, 1954,
pp 1724-1728.

FDD/X-3503

Sci - Electron
May 59

(FDD 24773)

Ferroelectric Properties of Solid Solutions in the
Barium Titanate-Strontium Titanate System, by
G. A. Smolenskiy, K. I. Rozgachev, 19 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, No 10,
Moscow, Oct 1954, pp 1751-1760

CIA/FDD/U-7062

USSR
Sci - Physics
CTS 69/Jun 55

26,202

Elastic and Plastic Fracture of Amorphous Polymers,
by G. M. Bartenev, G. I. Belostotakaya.

RUSSIAN, per, Zhur Tekh Fiz. Vol XXIV, 1954, pp 1773-
1785.

~~SECRET~~
UKSM GB57/458

Sci - Chemistry
Mar 58

59, 775

The Diffusion of a Solute in Substitutional
Alloys, by A. A. Smirnov.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 10,
1953, pp 1802-1811.

TPA3/TIB T-4593

Sci - Minerals/Metals, Physics

31,358

Reflection and Transmission of Light by a
System of Thin and Thick Dielectric Layers,
by M. P. Lisitsa, 20 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 10,
1954, pp 1837-1850.

CIA/FDD/Z-215

Sci - Physics

32,164

The Preparation of Large Single Crystals of
Aluminium of a Definite Orientation, by N. S.
Andreyeva, P. A. Bazirganyan, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 10,
1954, pp 1876-1878.

Sci Mus Lib - 55/3827

Sci - Chemistry, Physics 33,786

May 1956

(FDD 24774)

Problem of the Dispersional Properties of a
Sectional Waveguide, by N. M. Sovetov, 5 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, No 10,
Moscow, Oct 1954, pp 1907-1909.

CIA/FDD/U-7063

USSR
Sci - Physics
CTS 69/Jun 55

26,203

Concerning a Formula for the Angular Distribution
of Particles Scattered in a Gas, by I. P. Skalskaya,
3 pp.

RUSSIAN, no par, Zhur Tekh Fiz, Vol XXIV, 1954,
pp 1912-1914.

AEC Tr 2741

Sci - Physics
Jun 57

48, 637

SLA B-1678
JCF-10100

On the Hydrodynamics of Electric Discharges, by
G. A. Ostroumov, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, 1954,
pp 1915-1919.

LIT 2111
AEO Tr 2627

Sci - ~~Electrostatics~~, physics
Nov 56 CTS

40,386

(FDD 24838)

The Behavior of Polystyrene Capacitors Under the
Action of ^{alternating} Voltage, by A. P. Butra, V. T.
Renne, 17 pp.

RUSSIAN, ~~no per~~, Zhur Tekh fiz,
Vol XXIV, No 11, Moscow, Nov 1954, pp 1974-1982

Dec 53 CTS

CIA/FDD/U-7604

USSR

Sci - Physics, capacitors

30,413

(copyright)

Corona Characteristics in Transient Conditions, by
G. N. Aleksandrov.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 11,
1954, pp 2034-2036,

UKSM GB 125. No
IB 1442

Sci - Physics

52,326

Aug 57

On the Investigation of the Nonlinear Distribution of a Four-Terminal Network by a Signal of Complex Spectrum, By V. M. Vol'f, 17 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 11, 1954, pp 2054-2063.

SLA R-2382

Sci

Aug 58

72,350

Theory of the Photomagnetic Effect in Semi-
conductors in Strong Magnetic Fields, by
A. I. Ansel'm.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol 24, No 11, 1954, pp 2064-2069.

*AEC

Sci/Physics
Jun 67

Crystallization of Selenium Under Pressure, by
D. N. Nasledov, P. J. Kozyrev, 62 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 12,
1954.

CIA/FDD XX-1652
NO FOREIGN DISSEM

Sci
Jan 65
UKSIB Internal Use Only

271,429

Study of Unfractionated Polymers by Means
of an Ultracentrifuge, by S. Ya. Frenkel'.
RUSSIAN, per, Zh. Tekh. Fiz., Vol 24, No 12,
1954, pp 2169-2182.
NLL Ref 9022.84B 1966 (1261)

Sci-Chem
Aug 66

308,515

A Gas-Focused Beam as a Transitional Phase During
the Formation of a High-Voltage Pulsed Discharge
at Low Pressures, by A. V. Kustova, E. N.
Reykruedel'. UNCLASSIFIED

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIV, No 12, 1957,
pp 2183-2189.

Sci Mus Lib 57/4310

Sci - Phys
Sep 58

73,367

Etching of Steels by Ionic Bombardment, by
I. N. Prilezhayeva, G. V. Spivak, M. I. Malkina,

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV,
No 11, 1954, pp 2090-2096.

25,286

Brutcher Tr 3459
#3.60

Scientific - Min/Metals, Physics

Jul 55 CTS

Thermal Method of Determining the Moisture
Content of Capillary-Porous Materials,
by A. F. Chudnovskiy.

RUSSIAN, per, Zhur Tekh Fiz,
Vol XXIV, No 12, 1954, pp 2190-2201.

CSIRO 3674

Sci - Engr
Apr 62

192,075

On a Possible Current-Carrier Dispersion Mechanism
in Semiconductors, by T. A. Kontorova, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, 1954,
p 2217.-2220

Morris D. Friedman *R-134*
\$3.50

Scientific - Physics

CTB 67/Apr 55

22,944

Forms of Flow of Gas-Liquid Mixtures and Their
Stability Limits in Vertical Tubes, by B. K.
Kozlov

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXIV, 1954,
pp 2285-2288.

AEC Tr 2258
AEC-RJ-418
Assoc Tech Svc Tr 13G7R

Scientific - Physics
Nov 55 CTS/DEX

28,463

Table of Contents of "Journal of Technical
Physics", 7 pp.

RUSSIAN, mo per, Zhur Tekh Fiz, Vol XXV,
No 1-6, 1955.

7

CIA/FDD/X-1829

On Dielectric Properties of Transition Layers
in Semiconductors, by B. M. Vul, 11 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV,
No 1, 1955, p 3.

Morris D Friedman

\$5.50

Scientific - Physics

CTS 69/Jun 55

24,731

Plane Germanium Photodiodes, by Zh. I. Alferov,
B. M. Konovalenko, S. M. Ryvkin, V. M. Tuchke-
vich, A. I. Uvarov, 9 pp.

RUSSIAN, per, Zh. Tekh. Fiz., Vol XXV, No 1, 1955,
pp 11-17.

Morris D. Friedman

\$4.50

Sci. Physics

Sept 1955 OIS/BRK

26,858

ACC OLS - Tom - 467

On the Sensitivity of Germanium Photo-Diodes
to X-Rays, by B. M. Konovalenko, S. M. Rybkin,
V. M. Tuchkevich, 3 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV,
No 1, 1955, p 18. - 20

Morris D Friedman
\$5.50

K-133

Scientific - Physics

CTS 69/ Jun 55

24,733

On the Question of the Operating Mechanism of
Germanium Photodiodes, by S. M. Ryvkin, 12 pp.

RUSSIAN, per, Zh^u Tekh^u Fiz^u, Vol XXV, No 1,
1955, pp 21-28.

Morris D. Friedman *R-116*
\$6.00

Sci-Physics

26, 997

D.S.I - 90

Sep 1955 CTS/DEX

Nasledov, D.N., Dorin, V.A., and Dikina, I.M.
 ÉTUDE RADIOGRAPHIQUE DES COUCHES DE SÉLÉ-
 NIUM OBTENUES PAR ÉVAPORATION DANS LE VIDE
 (Rentgenograficheskoe Issledovanie Sloev Seleni,
 Poluchennykh Isparenim v Vakuume) (X-Ray Study of
 Selenium Films Obtained by Evaporation in Vacuum).
 2pp. (Foreign text included) 10 refs. CNRS-VII bis 267.
 Order from OIS, EIC or CNRS 50,98 TT-62-28266

Trans. in French of Zhurnal Tekhnicheskoi Fiziki
 (USSR) 1955, v. 25, no. 1, p. 29-33.

DESCRIPTORS: Vacuum apparatus. *Selenium, Thin
 films. Evaporation, Coatings. *Radiography.

(Physics--Solid State, TT, v. 11, no. 3)

TT-62-28266

- I. Nasledov, D.N.
- II. Dorin, V.A.
- III. Dikina, I.M.
- IV. CNRS-VII bis 267
- V. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
 European Translations Centre

Investigation of the Hardness of Solid Bodies.
II. Dependence of Durability on Pressure, by
S. N. Zhurkov, E. E. Tomashevskiy, 11 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 66-73.

Morris D. Friedman Z-156
\$5.50

27,895

Scientific - Physics
CTS 73/Oct 1955

On Semiconducting Properties of Certain
High-Ohmic Metallic Alloys, by A. I.
Drabkin, 5 pp.

RUSSIAN, per, ^{NY} Zh. Tekh. Fiz., Vol XXV, No 1,
1955, pp 81-84.

Morris D. Friedman
\$2.50

Sci-Physics

26,799

Sep 1955 CTS/DEX

On the Dependence of the Coercive Force on the
Thickness of the Lamina of Iron-Silicon Alloy,
by Yu. P. Burdakova, V. V. Druzhinin, 6 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 108-111.

Morris D. Friedman
\$3.00

Scientific - Physics
CYS 73/Oct 1955

27,900

Hardness of Metal-Ceramic Solid Alloys of
Tungsten Carbide-Cobalt Depending on Temperature
and Grain Size, by G. S. Kreymer, O. S. Safonova,
A. I. Baranov, 10 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 117-124.

Morris D. Friedman
\$5.00

11-146

Scientific - Physics
CRS 73/Oct 1955

27896

Brittleness of Metals and Size Effect, by
B. B. Chechulin.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 125-134.

CIA 9110111

Co-Op Trans Sch Tr 251
£3. (10s.0d.)

Sci - Min/metals

#2, 766

On the Determination of the Coefficient of
Self-Diffusion of Iron in an Alloy of Austenite,
by M. A. Krishtal, 8 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 144-148.

USSR
Sci - Physics

Sci Tr Center
RT-2818

MDF K-150
27,327

Electrodynamic Averaged Boundary Conditions for
Metallic Grids, by B. Ya. Moizhes, 14 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 158-166.

Morris D. Friedman *M-158*
\$7.00

34,939

Scientific - Physics
Jun 56 CTS/dex

Electrostatic Averaged Boundary Conditions for
Metallic Grids, by B. Ya. Moizhes, 14 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 1,
1955, pp 167-176.

Morris D. Friedman *M-109*

\$7.00

34,937

Scientific - Physics
Jun 56 CIB/dex

Strengths of Bond and Distortions in the Crystals
of Martensite, by V. K. Kritekaya, G. V. Kurdyumov
N. H. Hodya.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 2, 1955,
pp 177-181.

SLA 60-16971

Sci - Phys

156, 902

Jun 61

Changes in the Intensities of X-Ray Diffraction
Lines During the Aging of a Ni-Cr-Ti-Al Alloy,
by G. V. Kurdyumov, N. T. Travina.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 2, 1955
pp 182-187.

Brutcher Trans 3575
\$4.95

Sci - Minerals/Metals

29,818

Thermal Radiation From a Thin Rectilinear
Antenna, by M. L. Levin, S. M. Rytov, 11 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 2,
1955, pp 323-332.

CIA/TDD X-2407

Sci - Physics
May 1957 CTS/dex

47, 348

Anisotropic Waveguides, by M. A. Gintsburg, 8 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 2,
1955, p 358. - 3/3

Morris D. Friedman G-117
\$4.00

Scientific - Physics

CTE 67/Apr 55

22,980

Absorption Spectra Lines in Cadmium Sulfide
Crystals at the Temperature of Liquid Helium,
by E. F. Gross, M. A. Yakobson, 2 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV,
No 2, 1955, p 363.

Morris D Friedman
\$1.00 J536

Scientific - Physics

CTS 69/Jun 55

24,738 also
Dept of Navy. Jr 4110 APL/SHU T-1233

Electrical Characteristics of Chalcopyrite, by
B. I. Boltaks, N. N. Tarnovskiy.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 3, 1955,
pp 402-407.

United Kingdom Scientific Mission
UKSM GB 43

SLA

Sci - ~~XXXXXXXXXX~~ Minerals/Metals
Oct 57

54,458

Thermoelectric Properties of Systems of
Bismuth-Tellurium Alloys, by F. I. Vasenin,
7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 3,
1955, pp 397-401.

Morris D. Friedman

\$3.50

61-17593

✓-101

27893

Scientific - Physics

Electronics

Miscellaneous Metals

73

CTS #3/Oct 1955

67-11150

On the Possibility of Using Interference Phenomena in
a Toepler Device for Quantitative Investigations, by
S. A. Abrukov, A. G. Shafigullin, 16 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 3, 1955,
pp 421-429.

Morris D. Friedman A-101
\$8.00

Sci - Physics
Dec 56 CTS

41, #43

On the Question of Radiometer Sensitivity⁶ by
F. V. Bunkin, N. V. Karlov, 8 pp.

RUSSIAN, per, ^{or} Zh/Tekh Fiz., Vol XXV, No 3, Chap ~~I~~,
1955, pp 430-435.

Morris D. Friedman
\$4.00

Sci-Physics
Sep 1955 CTS/DEK

26, 849

An Instantaneous Heat-Source Method for Determination
of Temperature and Thermal Conductivities, by K. R.
Kammer, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 3, 1953,
pp 472-477.

R.A.E. Farnborough Tr
Sci Mus Lib Tr 57/0468

609

Sci - Physics
Jun 57

48,464

Null Method of Measuring Weak Electrical
Fluctuations, by V. S. Troytskiy, 26 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 3,
1955, pp 478-496.

Morris D. Friedman T-136
\$13.00

Scientific - Physics
CTS 73/Oct 1955

27,891

Theorem on the Maximum Temperature Gradient, by
A. G. Tenkin, 11 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 3, 1955,
pp 534-540.

Morris D. Friedman T-109
\$5.50

Sci - Physics

38,243

On the Concept of 'Activation Energy' for the
Solid State of a Substance, by M. P. Levitskiy,
3 pp.

RUSSIAN, per, ^{uy} Zh. Tekh. Fiz., Vol XXV, No 3, 1955,
pp 544, 545.

Butcher Jr 3695

Morris, D. Friedman
\$1.50 *L-763*

Sci Physics

Sep 1955 CTS/DMX

A.E.I. TP 911

26,800

Perturbation of the Electromagnetic Field for
Small Deformations of the Metal Surface, by
V. Z. Katzenelenbaum, 17 pp.

RUSSIAN, no per, Zhur Mekh Fiz, Vol XXV, No 3,
1955, pp 546-557. CIA D 197020

... To ...
AF Cambridge Research Center
Tech Tr No 2

Morris D. Friedman

Scientific - Physics
Min/Metals

30,307
Jan 56 CTS/DEX

Mass-Spectrometric Method of Measuring the Amount
of Radiogenic Argon in Geological Formations to
Determine Their Absolute Age, by Kh. I. Amirkhanov,
I. G. Gurvich, L. L. Shanin, S. S. Sardarov,
7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 3,
1955, pp 558-561.

24,734
475 RT-385
Morris D Friedman
\$3.50

Scientific - Physics
A.E.R.E. 556
CTS 69/Jun 55

Sachno. 55/2558

10 829

GE-1

S. M. RYVKIN, et al.

Method to determine the mobility of minority charge carriers
injected by light

Methode zur Bestimmung der Beweglichkeit von durch Licht
injizierten Minderheits-Ladungsträgern

Zhur. Tekh. Khim., 25, No. 4, 563-568 (1955)

- German

E u r a t o m

Investigation of the Thermo-Electric Characteristics
of Bismuth Telluride, by R. V. Vlasova, L. S. Still-
bans.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, NO 4, 1955,
pp 569-576.

A.E.I.T/921
D.S.I.-4 1416

Sci - Chemistry, electricity 40,009

RUSSIAN RESEARCH
170 77-12-2095

Manuscript - V-III
078 625/13-59

On the Dielectric Losses of Polyethylene, by G. P. Mikhailov, S. P. Kabin, B. I. Sazhin, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 4, 1955, pp 590-594.

SLA Tr R-860

Sci - Electricity, physics

52, 285

Sep 57/CTS

The Problem of the Relation between Dielectric
and Mechanical Relaxation in Polymers, by E. I.
Chuikin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 4,
1955, pp 595-600.

T.I.L. T-4646

Sci - Physics
May 1956

34,477

Circular and Rectangular Waveguides With
Longitudinal Irises, by E. G. Solov'yev, 4 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 4,
1955, pp 707-710.

CIA/FDD X-2416

Sci - Physics
May 1957 CTS/dex

47,338

Faynberg, Ya. B. and Khizhnyak, N. A.
ARTIFICIAL ANISOTROPIC MEDIA. [1961] [11 p.
7 refs. AF-11.
Order from LC or SLA ml\$2.40, ph\$3.30 61-13285

Trans. of [Zhurnal Tekhnicheskoy Fiziki (USSR)
1955, v. 25, no. 4, p. 711-719.

An examination is made of the problem involved in creating anisotropic media in a smooth metallic waveguide containing isotropic dielectric disks periodically distributed. Separate consideration is given to the systems of equations, derived from Maxwell equations describing the propagation of axially symmetrical electromagnetic waves, which characterize the propagation of E and H waves. Equations are derived for the effective values of the dielectric constants of an anisotropic dielectric, equivalent to disks, that completely fills the waveguide.

(Physica, TT, v. 3, no. 12)

61-13285

1. Electromagnetic waves--
Propagation
 2. Waveguides--Mathematical
analysis
 3. Title: Anisotropic media
- I. Faynberg, Ya. B.
 - II. Khizhnyak, N. A.
 - III. AF-11

148750

Office of Technical Services

On the Question of Radiometer Sensitivity, ^{II} by
F. V. Dankin, N. V. Karlov, 11 pp.

RUSSIAN, per, ^{JV} Zh Tekh Fiz, Vol XXV, No 4, ~~Chap II,~~
1955, pp 733-741.

Morris D. Friedman
\$5.50

Sci-Physical
Sep 1955 CTS/DEX

26 850

Veselovskii, P. F.
THE MEASUREMENT OF ϵ' AND $\tan \delta$ OF SOLID
DIELECTRIC BY CENTIMETER RADIO WAVES IN
THE TEMPERATURE RANGE OF -100 TO 100°C.
[1962] [18]p. (figs. omitted) 16 refs.
Order from OTS or SLA \$1.60 62-16724

Trans. from Zhurnal Tekhnicheskoi Fiziki (USSR) 1955,
v. 25, no. 4.

DESCRIPTORS: Solids, *Dielectrics, Dielectric proper-
ties, *Radio waves, Propagation, Wave transmission,
Waveguides, Cavity resonators, Temperature.

(Physics--Solid State, TT, v. 9, no. 3)

62-16724

I. Veselovskii, P. F.

Office of Technical Services

Diffusion de l'Etain et de l'Antimoine dans
les Composes Semi-Conducteurs de Bi_2Se_3 et
 Bi_2Te_3 by B. Boltaks, 4 pp.

RUESIAN to FRENCH, per, Zhur Tekh Fiz SSSR,
Vol XXV, No 4, 1955, pp ~~767-768~~. 9093945

CEA R-1580
Reverse Translation

Sci
Oct 62

The Effect of Impurities on the Electro-Conductivity
of AlSb, by A. R. Regal', M. S. Sominaki, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 4, 1955,
pp 768-770.

Sci Mus Lib Tr 56/3787

Sci - Physics; Chem
May 57 CTS/dex

47,502

Electron-Optical Investigations of Multi-Layer Photo-
cathodes, by L. N. Vykhovskaya, Yu. M. Kushnir.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, 1955.
ERDL, Ft Belvoir T-1710
(AD 428419)

Sci - Phys, Engr
Sep 64

265,054

A Method of Growing Single Crystals of Metals With Prescribed Spatial Orientation and Natural Crystallographic Faces, by D. N. Chighvinadze, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 5, 1955, pp 805-811.

A.E.R.E. Harwell Lib Tr 658
Sci Mus Lib 56/1529

Sci - Chemistry

40, 649

Generation of Electromagnetic Oscillations
in a Traveling-Wave Tube With External Helix,
6pp. I. A. ^SMilligalevsky, D. N. Yenerovskiy, et al.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 5,
1955, pp 812-816, Encl to IR-1122-55.
CIA D 332102.

ARC-70-2628
AF 698017

30,927

USSR
Sci - Electricity, Physics

Losses in Waveguides, by L. A. Vaynshteyn, 7 pp.

RUSSIAN, no pag, Zhur Tekh Fiz, Vol XXV, No 5,
1955, pp 341-346.

CIA/FDD X-2421

Sci - Physics

May 1957 CRS/dax

317-17532
47, 335
SLA 59-16693

The Diffraction of Electromagnetic Waves by a Grid
Which Consists of Parallel Conducting Strips,
by L. A. Vaynshteyn, 6 pp.

RUSSIAN, see par, Zhur Pochk Fiz, Vol XXV, No 5,
1955, pp 347-352.

CIA/FDD X-2422

Doc - Physics
May 1957 CTS/dex

47,535

An Approximate Method of Calculating
a Subalient Boundary Layer in the Presence
of Heat Exchange, by M. B. Skopets.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 5,
1955, pp 864-876.

A.E.R.E. Harwell
Tr 591 OT/1636

Sci - Physics

32,466

On the Nature of Links During the Propagation of
Samples, by N.M. Davidenko.

RUSSIAN, per. Zhurikhin Fiz. Vol. XXV, 1965, no. 8, pp. 154-158.

AMSC MOL. 529/1

Sci. Phys
Jan 61.

154, 940

Influence of Fused Metallic Coatings on the Mechanical
Properties of Steels and Alloys, by Ya. M. Potak,
I. M. Shcheglakov, 16 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 5, 1955,
pp 897-907.

ATIC F-TS-9016/III

Sci - Min/metals
Mar 1957 CTS

45,053

Investigations of Relaxation Processes in
Polyvinylacetate at Temperatures Below the
Softening Point, by P. F. Veselovskii, A. I.
Slutsker.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol 25, No 5, 1955, pp 939-42.
NLL RTS 2620

Sci - Mat
Sept. 67

3 40,420

X-ray Investigation of Solid Solutions $BaTiO_3$ -
 $PbZrO_3$, by E. A. Poray-Koshits, et al.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, No 5,
1955, pp 945.

Coop Trans Scheme Tr 223
6s.0d.

Sci - Chemistry, Physics

36,340

Jul 1956

Variation of the Conductivity of Germanium by an
External Electric Field, by S. G. Kalashnikov,
A. E. Yunovich, 3 pp.

RUSSIAN, per, Zh. Tekh. Fiz., Vol XXV, No ⁵ 3, 1955,
pp 952-954.

Morris D. Friedman *K-162*
\$1.50

Sci - Electronics

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Sep 1955 CTS/DEX

26,798

Deposited DISSEMINATION in Semi-Conductors as High
Voltage. by E. R. Holroyd, R. S. Macdonald.

DISSEMINATION, Space Tech. Pts., Vol. XIV, No. 6,
1975, pp. 555-577.

REF ID: A130

Sci. & Electronics
Jan 56

57,207

Properties and Structure of Some Materials in the
Tl-Sb-Se System, by B. T. Kolomiets, N. H.
Goryunova, 21 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, 1955,
pp 984-994.

S.L.A. Tr R-420 ⁴⁰⁹⁹

Sci - Electronics
May 57

48, 744

Theory of Well-Conducting Semiconductors, by L. L.
Korenblit, T. Ya. Shraifeld.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXV, No 6, 1955,
pp 1019-1025.

UKSM GB 43

Sci - Electricity, Physics 52, 287

Sep 57

Sparking Potential at Low Pressures in He, Ne,
Ar, Kr, and Xe, by A. N. Dikidzhi, B. N. Klyar-
feld, 7 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XXV, 1955,
pp 1038-1044.

See must be in Russian

AEC Tr 2750

48,645

Sci - Physics
Jun 57

Kalashnikov, S. G. and Penin, N. A.
EFFECT OF FREQUENCY ON THE RECTIFYING
CHARACTERISTICS OF SEMICONDUCTOR DIODES
WITH LOW ALTERNATING CURRENT VOLTAGE.
[1961] 25p. 6 refs.
Order from OTS or SLA \$2.60

61-20003

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1955,
v. 25, no. 6, p. 1111-1123.
Another trans. is available from LC or SLA at \$2.40,
ph\$3.30 as 61-15068, NBS-S-10725-61, 2 Nov 60, 14p.

DESCRIPTORS: *Semiconductors, *Diodes, Frequency,
*Crystal rectifiers, Alternating current, Impurities,
Resistance, Electrostatic capacitance, Conductivity.

For abstract see Technical Translations 5: 134, 1961.

(Engineering--Electronic, TT, v. 6, no. 10)

61-20003

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II. Penin, N. A.

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