

Effect of Heat Treatment on Magneto-resistance
of Germanium, by V. V. Ribalka, A. V. Pereverseva.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol 13, ^{NO. 5,} 1961,
pp 424-425.

BB 5729

Sci-Min/Met
Jan 63

220,020

Effect of Electrostatic Instabilities on the
Electrical Conductivity and Temperature of
a Plasma, by V. D. Shapiro.

UKRAINIAN, per, Ukray Fiz Zhur, Vol VI,
No 3, 1961, pp 426-429.

*FTD-TT-62-905

Sci - Phys, Electricity

22 Jun 62

FTD not filed
PAS 13656

Ejection of Plasma From an Electrodeless
Pulse Discharge in a Vacuum, by M. G. Gabovich,
L. I. Romanyuk, 10 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol VI, No 4,
1961, pp 461-467. 9676143

FID-IT-61-345

Sci - Engr

5 Apr 62

189,764

Measuring the Diffusion of Nitrogen in Liquid Oxygen,
by M. M. Bagrov, 6 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol 6, Nr 4, 1961,
pp 1486-1488. 9878631

FTD-TT-62-802

Sci - Phys
Nov 62

216,904

Electric Transfer of Slight Zinc and Silver
Impurities in Solid Aluminium, by P. P. Kuz'menko. *8/10*

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VI, No 4,
1961, pp 525-530.

2
*AERE - *T₂* - 979

Sci - Phys

Apr 63

(H
NY-6880)

TECHNICAL SILICON CARBIDE AS A MATERIAL
FOR POINT-CONTACT DIODES, BY L. H.
BABAK, S. A. BOCHUK, S. M. HENKINA,
ET AL, 11 PP.

UKRAINIAN, PER, UKRAINSKIY FIZ ZHUR,
VOL VI, NO 4, 1961, PP 511-516.

JPRS 12101

SCI - PHYS
FEB 62

180,671

(NY)

Investigation of the Absorption and Scattering
of Millimeter Waves in Precipitations 1 and 2,
by A. Y. Usikov, V. L. Vaskser.

RUSSIAN, per, Ukrainskii Fizichnyi Zhurnal,
Vol 6, No 5, 1961, pp 618-641.

*NASA TT F 11,915

"

Sci-Phys
Sep 68

Effect of Operating Conditions of an MM-1000 Oil
Diffusion Pump on the Composition of Decomposition
Products of D-1A Oil, by G. T. Nikolayev,
B. A. Sharetkvsky, 10 pp.

~~KRESUKH~~

UKRAINIAN, per, Jkrain Fiz Zhur, Vol VI, No 5, 1961,
pp 697-702. 9225788
AEC-ORNL-Tr-1528

Sci-Phys
Dec 64

269,370

Concerning the Question for Determining the Migration
of Ions in Solid Metals by the Method of Radioactive
Isotope, by P. P. Kuz'menko.
UKRAINIAN, per, Ukr Fiz Zh, Vol 6, 1961, pp 712-714.
*CFSTI TT 70-59081

Sci- *Phys*
June 70

Effect of Infrared Light on the Luminescence of Pure
and Mixed Silver Halide Phosphori, by V. M.
Bilous, S. I. Golub, 5 pp.

UKRAINIAN, per, Ukrayinskiy Fiz Zhur, Vol VI, No 6,
~~1961~~ 1961, pp 738-741. 9667332

FED-TT-62-1267

Sci - Phys
Jan 63

219,947

Contactless Determination of Temperatures
of Bodies Below Red Heat, by L. S. Krem-
enchug's'kiy, A. F. Mal'nev.

UKRAINIAN, per, Ukr Fiz Zh, Vol IV, No 6,
1961, pp 876-878.

ATS UJ-4106

Sci-S Phys NLL Ref: 5825.4 1963 (10,433) (LOAN)

244, 901

Ultrahigh Vacuum Obtained by Means of Chromium,
Pulverized by Electron Bombardment, by
H. S. Mikhaylov, H. M. Presnyakova, O. N. Akymovych,
3pp
UKRANIAN, per, Ukrayin Fiz Zhur, UkRSR, Vol VII,
No 1, 1962, pp 73, 74. 966800

FTD-TT-63-88

Sci-Electro
Jan 63

Electron and Ion Emission of Certain Materials
in Connection With Their Utilization in a Thermo-
Electron Energy Transformer, by B.I. Mikhaylovskiy.

5 pp.

RUSSIAN, per, Ukrayinskyy Fizychnyy Zhurnal,
Vol 7, No 1, 1962, pp 75-77. 9799442

FTD-TT-65-1614

Sci/Physics
Jun 66

302,532

Certain Characteristics of Partial Adsorption of
Components of Residual Gases at Very High Vacuum.
II., by Yu. G. Ptushinskiy, B. O. Chuykev, 5 pp.

UKRAINIAN, por, Ukrains'kiy Fiz Zhur, Vol VII,
No 1, 1962, pp 79-81. 9668600

FTD-TT-63-#88

Sci-Electronics
May 63

230,879

Mechanism of the Mobility and Effective Charges of Ions
in Metals, by P. P. Kuz'menko, 17 pp.

~~RUSSIAN~~ UKRAINIAN, per, Ukrain Fiz Zhur, Vol VII, No 2,
1962, pp 117-131. 9221583

AERE-Harwell-Tr-980

NLL 9091.9 1963 (AERE 980) on loan

Sci-Mat & Met
Apr 64

254,670

Calculation and Construction of an Accelerating System for a Linear Accelerator With Intensive Focusing, by L. I. Bolotin, V. O. Suprunenko, et al., 7 pp.

UKRAINIAN, per, Ukrayinskiy Fis Zhur, Vol VII, No 2, 1962, pp 132-136. 9667321

FTD-ET-62-1329

Sci - Phys
Jan 63

219,958

Glinchuk, K. D., Litovchenko, N. M., and
Misehuk, O. G.
INVESTIGATION OF THE RECOMBINATION OF
CHARGE CARRIERS IN GERMANIUM DOPED WITH
CERTAIN IMPURITIES. III. GERMANIUM DOPED
WITH Ag AND Au. [1963] 21p. 30 refs.
Order from OTS or SLA \$2.60 63-14466

Trans. of Ukrainian [Ukrainian] [Ukrainian] [Ukrainian] (USSR)
1962, v. 7, no. 2, p. 152-166.

DESCRIPTORS: *Germanium, *Impurities, *Silver,
*Gold, *Semiconductors, Temperature,
*Recombination reactions, Electrons, Atomic energy
levels, Iron, Cobalt, Nickel, Reliability.

Investigations were carried out to determine depend-
ence of the life time of minority charge carriers τ
in n and p type germanium on temperature and con-
(Physics--Solid State, TT, v. 10, no. 7) (over)

63-14466

I. Glinchuk, K. D.
II. Litovchenko, N. M.
III. Misehuk, O. G.
IV. Title: Germanium . . .

Office of Technical Services

Experimental Determination of the enthalpy,
Temperature, and Heat of Phase Transition of
the α -Modification of Al_2O_3 in the Temperature
Range 1200° to 2500°K, by P. B. Kantor,
L. S. Lazaryev, et al, 9 pp.
UKRAINIAN, per, Ukrains Fiz Zhur, Vol VII,
No 2, 1962, pp 205-211. 9698471
DDC RSIC-T-U-2

Sci - Phys
Nov 65

291,371

Some Peculiarities of the K-State in
Nickel-Chromium Alloys Containing
Titanium, by O. Z. Zhaudskiy, *6 pp.*

RUSSIAN, per, Ukrain Fiz Zhur, Vol VII,
No 2, ~~1962~~ 1962, pp 212-216.

OTS TT-63-23963
NLL Ref. 9022.09 1963 (2,782)
(Loan)

Sci - M/M
Nov 63

242, 276

SF-2462

CR 3/63

Third All-Union Conference on the Theory of Elementary
Particles, by Yu. M. Lomsadze, et al.

UKRAINIAN, per, Ukrainskiy Fizichnyi Zhurnal, Vol
VII, No 4, 1962, pp 448-454.

*JPRS

Sci - Misc.

USSR - Biographic

Jan 63

THIRD ALL-UNION CONFERENCE ON ELEMENTARY
PARTICLE THEORY, BY YU. M. LOMSADZE,
V. I. LEND'YEL, ET AL, 11 PP.

UKRAINIAN, PER, UKRAINS'KIY FIZICHNIY
ZHURNAL, VOL VII, NO 4, 1962, PP ~~154-158~~ 154-158.

JPRS 17376

SCI - PHYS

JAN 63

211,134

Resonance Scattering of Gamma-Quanta by Impurity
Nuclei Located in a Solid, by I. P. Dzyub, A. F.
Lubchenko, et al, 15 pp.

UKRAINEAN, per: Ukrain Vis Zhur, Vol VII, No 5,
1962, pp 457-468. - 9207253

AEC Tr-5658

Sci - Phys

May 63

232,194

Emissivity of Diffused p-n Transition, by
Yu. O. Tkhoryk, 8 pp.

UKRAINIAN, per, Ukrayinskiy Fiz Zhur, Vol VII,
No 5, 1962, pp 476-481. 9683121

FTD-TT-62-1843

Sci-Phys
Jun 63

232,472

Deuteron Splitting Under the Action of Nuclear
Forces, by A. M. Korol'ov, B. D. Konstantinov,
et al, 23 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol VII, 1962,
pp 602-617. (9208233)

AEC-UORL-Tr-941(L)

Sci - Chem

Jun 63

234,306

Diffusion in a Non-uniformly Heated Strained Layer
in the Presence of Mass Exchanges with the Surround-
ing Medium, by Y. S. Podstrigach,
UKRAINIAN, per, Ukr Fiz Zh, Vol 7, 1962, pp 652-
660.

*CFSTI TT 70-59078

Sci-
June 70

phys

Theory of Polyelectrolyte Solutions, By
O. B. Ptitsyn
RUSSIAN, per, Ukrainskii Fizicheski Zhurnal,
Vol 7, 1962, pp 702-709
NTC 71-16821-07D

Feb 72

The Present Position and Problems of the Physics
of Liquids [and] Contribution to the Theory of
Condensed Systems, by A. Z. Golik, L. A. Rott.
14 pp.

RUSSIAN, per, Ukrayinskiy Fizychnyi Zhurnal, Vol 7,
No 7, 1962, pp 685-691.
OTS-TT-64-19102

Sci/Physics
Jun 67

327,745

On the Interpretation of the Structure of
Monatomic Liquids, by A. F. Skryshevski.
RUSSIAN, per, Ukrainski Fiz Zhurnal,
1962, Vol 7, No 8, pp 826-833.
NLL RTS 2505 (On Loan or Purchase)

Aug 65

286,997

On Defects in Crystalline Lattice Originating
During the Process of Hardening of Silver
Rosed in Air, by T. D. Ostins'ka and
V. G. Pervakov, 6 pp.
Zhurnal, ser. Khimicheskaya Fizika
Zhurnal, Vol VIII, No VIII, 1963, pp 721-724.

760792
D11-73-04-120

T. D. Ostins'ka

V. G. Pervakov

SCI-1168
Jun 68

182,486

Influence of External Magnetic Field on
Operation of Cesium-Vapor Converter, by
N. D. Morgulis, Yu. I. Chutov. 16pp.

UKRAINIAN, per, Ukrayin ^{Skyy} Fizychnyy Zhurnal,
No 9, 1962, pp 1003-1014. 9686801

FTD-TT-63-351

Sci - Phys

Mar 63

Introduction of Microimpurities into Single
Crystals of CdS during their Growth and Some
Characteristics of the Alloyed Samples,
by B. M. Bulakh, I. B. Mizets'ka, 6 pp.
RUSSIAN, per, Ukrains Fiz Zhur. Vol VII, No 10,
1962, pp 1125-1127. 9698470
DDC-RSIC-T-U-3

Sci - Phys
Nov 65

291,367

EFFECTS AT THE CATHODE OF PLASMA DIODE AS A
MODEL OF MAGNETOGAS DYNAMIC ENERGY CONVERSION
BY N. D. MORGULIS, 6 PP.

UKRAINIAN, PER, UKRAYINS'KIY FIZYCHNYY ZHURNAL,
NO 10, 1962, PP 1131-1134.

JPRS 19408

SCI - PHYS
MAY 63

231,392

Investigation of the Escape of Charged Particles From
a Plasma in a Magnetic Field, by L. L. Pasichnyk,
G. V. Kozak, 10 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol VII, No 11,
1962, pp 1165-1170, 9227375

NASA TT F-169

NLL/4015.49 1965 (TT F-169)

Sci-Phys
May 65

280,214

THE SCATTERING OF ELECTROMAGNETIC WAVES ON
UNEVEN SURFACES, BY V. I. MYKHAYLOV, 8 PP.

RUSSIAN, PER, UKRAINSKIY FIZICHESKIY ZHURNAL,
VOL VII, NO 12, 1962, PP 1274-1279.

JPRS 17532

SCI - PHYS

FEB 63

221,5647

Electric Transfer of Antimony in Aluminium, by
P. P. Kuz'menko, V. S. Koval'chuk, 5 pp.
RUSSIAN, per, Ukrayin Fiz Zhur, Vol VII, No 12, 1962,
pp 1350-1354. 9219345

ARRE-Harwell-Tr-981

Sci-Mar & Met
Mar 64

251,263

Experimental Investigation of the Atomic
Scattering Curve of Nickel, by N. F. Kravtsova,
V. P. Tsvetkov.

RUSSIAN, per, Ukrain Fiz Zhur, Vol VII, No 12,
1962, pp 1355-1362.

NLL Ref: 5828.4 1963 (5447) (loan)

May 64

On a New Possible Mechanism of Recombination
in Semiconductors, by N. K. Shevchenko, 5 pp.

UKRAINIAN, per, Ukrain Fiz Zhur, Vol VII,
No 12, 1962, pp 1364-1365. 9685393

FTD-77-63-507

Sci-Phys

Sep 63

343,601

S-92/63

Obtaining a Super-High Vacuum by Means of
Oxide Electronic Semiconductors Dispersed by
Electron Bombardment, by G. S. Mikhaylov, et al.
(NY-7454) *3 pp.*

UKRAINIAN, per, Ukrainskiy Fiz Zhur, Vol VII,
No 12, 1962, pp 1367-1368.

R JPRS 17532

Sci - Phys
23 Jan 63

Electrical Transfer of Sb in Al, by P. P. Kuz'menko.
UKRAINIAN, per, Ukr Fiz Zh, Vol 7, 1962, pp 1530-
1534.

*CFSTI TT 70-59087

Sci- *phys*
June 70

On the Possibility of Locating the Boundary of an Injected
Plasma by a Beam of Charged Particles, by M. D. Gabovich,
O. O. Lazova, et al.
UKRAINIAN, per, Ukrains Fiz Zhur, Vol VIII, No 1, 1963,
pp 57-60.
Dept of Navy Tr No 4162/APL T-1324

Sci - NS
Aug 65

284,298

Investigation of Plasmoids, by Means of a
Thermocouple, by L. I. Demindenko, N. I. Mitina.
RUSSIAN, per, Ukrainskiy Fiz Zhur, Vol VIII,
No 1, 1963, pp 64-68, 72.
Navy Tr #3793/
APL T986

Sci - Phys
May 64

~~256,975~~
256,975

Description of Barium Oxide Molecules From
Tungsten in a Strong Electric Field, by
A. G. Mamovets'.
RUSSIAN, per, Ukr Fiz Zh, Vol VIII, No 1,
1965, pp 65-71.
NASA TT F-9469

Sci-Phys
Nov 65

292,834

S-179/64

New Method of Standardizing an Experimental Scattering
Curve for X-Ray Beams, by M. I. Gulyvets, I. V. Radchenko.
(NY-9057)

UKRAINIAN,
~~RUSSIAN~~, per, Ukrain Fiz Zhur, Vol VIII, No 1, 1963,
pp 106-107.

*JPRS

Sci - M/M
Feb 64

X-Ray Examination of the Ordering Process in
Alloys, by V. I. Iveronova, 11 pp.
UKRAINIAN, per, Ukrains'kiy Fiz Zhur, Vol VIII,
No 2, 1963, pp 157-162. 9896868
FTD-TT-64-1056

Sci - ~~SI~~SI/M
May 65

280,459

Interrelationship Between Short-range and Long-range
Order and the Properties of Alloys, by I. L. Aptekar.
UKRAINIAN, per, Ukr Fiz Zh, Vol 8, 1963, pp 170-173.
*CFSTI TT 70-59079

Sci- *phys*
June 70

On the Determination of the Temperature and Concentration dependence of the Short-range order Parameters for n-component Unordered Solid Solution, by Y. N. Kurushin,
UKRAINIAN, per, Ukr Fiz Zh, Vol 8, 1963, pp 175-179.
*CFSTI TT 70-59071

Sci-*group*
June 70

Theory of Diffusion of Interstitial
Atoms in Ordered Alloys of the CuPt
Type, by M. I. Dekhtyar, 11 pp.
RUSSIAN, jhr, Ukrayins'kyy Fizychnyy
Zhurnal, Vol 8, No 2, 1963, pp 183-190.
9697542
FTD-TT-65-28

Sci-M/M
Aug 65

287,062

Theory of Diffusion in Ordered Alloys of the Cu-Au
Type, by Z. A. Matysina.
UKRAINIAN, per, Ukr Fiz Zh, Vol. 8, 196³, pp 190-195.
*CFSTI TT 70-59086

Sci- *phys*
June 70

Incompleted Long-Range Order in Solid Cu - Al
Solutions, by V. E. Panin, V. P. Fadin, et al, 5 pp.

RUSSIAN, per, Ukrain Fiz Zhur, Vol VIII, 1963,
pp 206-210. 4277382

ARC-Tr-5807

Sci - Phys

Aug 63

341,339

Theory of the Debye Thermal Factor in Solid
Solution, by M. A. Krivoglaz, E. A. Tikhonova, 4 pp

RUSSIAN, per, Ukrayinskiy Fiz ²zhur, Vol VIII,
No 2, 1963, pp 248-251. 9211373

AEC-Tr-5401

Sci
8 Sep 63

Changes in Elasticity, Magnetostriction and Electric
Resistance of Fe-Al Alloys During Ordering, by
V. L. Sandmirsky.
UKRAINIAN, per, Ukr Fiz Zh, Vol 8, 1963, pp 284-288.
*CFSTI TT 70-59089

Sci- *phys*
June 70

Investigation of the Magnetostriction of the
Paraprocess in Ordered Iron Alloys, by
I. Ya. Dekhtyar.
UKRAINIAN, per, Ukr Fiz Zh, Vol 8, 1963, pp 315-320.
*CFSTI TT 70-59069

Sci-phys
June 70

The K State and Ordering, by B. G. Livshits
and G. A. Rymashevskii.
RUSSIAN, per, Ukrain. Fiz Zhurnal, 1963,
Vol 8, No 3, pp 386-390.
MLL 5828.4 1964 (5503) (On Loan)

Aug 65

286,472

Internal Friction in Ordered FE-NI Alloy, II,
by F. N. Dunayev, et al.
RUSSIAN, per, Ukrain Fiz. Zh. 8, 1963, pp. 398-401.
*CFSTI TT 70-57088

Sci/phys
Mar 70

403,281

Scientific Research in Physics at Higher Educational
Institutions of the Ukraine, by G. Z. Zhmuda'kiy, 22 pp.
RUSSIAN, per, Ukrains'kiy Fiz Zhur, Vol VIII, No 4,
1963, pp 405-417.

NLL Tr Bulletin
Vol V, No 12, 1963

Sci - Phys
Feb 64

249,551

Electrostatic Plasma Containment, by O.A. Lavrentev.
RUSSIAN, per Ukr. fiz. Zh. Vol. 8, No. 4, 1963,
pp 440-445
GB 343/CTO/217

Sci -
Aug 67

339-683

Investigations of Plasma Containment by a Magnetic
Field Layer, by O.A. Lavrentev.
RUSSIAN, per Ukr. fiz. Zh. Vol. 8, 1963, pp 446-451
GB 343/CTO/218

Sci -
Aug 67

338-495

On a Nonlinear Theory of Plasma Waveguide,
by A. M. Kondratenko, 5 pp.
UDRAINIAN, per, Ukrayins'kyi Fiz Zhur, Vol 8,
No 4, 1963, pp 488-490. 9697877
FTD TT-65-142

Third Interinstitutional Scientific Conference of Problems of
Evaporation, Combustion and Gas Dynamics of Dispersion
Systems, by D. I. Polishchuk, 7 pp.
RUSSIAN, per, Ukrains'kly Fiz Zhur, Vol VIII, No 4, 1963,
pp 498-500. 9691534

FTD-TT-63-944

Sci - Engr
Mar 64

251,070

On the Question of Exciting Longitudinal Waves in
Plasma by Radio Waves, by A. M. Fedorchenko, 7 pp.
UKRAINIAN, per, Ukrainskiy Fizichnyi Zhurnal,
Vol VIII, No 5, 1963, pp 555-559. 9693383
FTD-TT-64-174

* ACSI-I-4367
ID 2204008664

Sci ; Phys
Aug 64

264,830

On Cyclotron Radiation of Sound Waves by Ions in
Non-Isothermal Plasma, by V. I. Pakhomov, 5 pp.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII, 1963,
pp 595-597. 9225291
AEC-UCRL-Tr-1084(L)

Sci-Phys
Nov 64

268,712

THE FOURTH ALL-UNION CONFERENCE ON THE
THEORY OF ELEMENTARY PARTICLES BY YU. M.
LOMSADZE, I. YU. KRYVSKYY, ET AL, LL PP.

UKRAINIAN, M PER, UKRAINS'KYY FIZYCHNYI ZHURNAL,
VOL 8, NO 5, MAY 1963, PP 601-605.

JPRS 21518

SCI-PHYS
OCT 63

240,496

Role of Ion Velocity During the Excitation of
Plasma Oscillations by an Ion Beam, by
M. D. Gabovich, G. S. Kirichenko, 7 pp.
RUSSIAN, per, Ukrainns'ky Fizichny Zhurnal,
Vol VII, No 6, 1963, pp 624-627. 9692299
FTD-TT-64-115

Sci - Phys
May 64

267,663

Thermoemissive Properties of Some Refractory
Compounds, by G. V. Samsonov.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII,
No 6, 1963, pp 700-702.
*ACSI I-7330
ID 2204022465

Sci - Chem
Jul 65

The Diffusion of Carbon in Titaniu, by
I. I. Kovenski.
RUSSIAN, per, Ukrain. Fiz. Zhur. 8, 1963,
pp. 797-798.
*CFSTI TT 70-57049

Csi
Sci/phys
Feb 70

Formation of Magnetic-Field Pulses with
Short-Duration Fronts in Inflector-Type
and Deflector-Type Devices, by I. O. Gris-
hayev, et al,
RUSSIAN, per, Ukrainskiy Fizichniy Zhurnal,
Vol VIII, No 8, 1963, pp 861-868.
NLL RTS 2825
(On Loan or Purchase)

Sci-Phys
Apr 67

321,626

Formation of Magnetic Field Pulses With Short
Fronts in Inflector and Deflector Devices. II.
by I. O. Grishaev, O. H. Ilyin.
RUSSIAN, per, Ukrainski fizichni zhurnal.
Vol 8, No 8, 1963. pp 869-876.
NLL RTS 2826

Sci-Phy
Nov 67

345,296

Optical Properties of Mercury Sulfide,
by B. F. Bilen^okiy, M. V. Pashkovskiy.
UKRAINIAN, per, Ukrains^okii Fizichnii
Zhurnal, Vol VIII, No 8, 1963,
pp 913-915.
Dept of Navy Tr 4742/APL/JHU TG 230-7463

Sci-Phys
Jun 66

302,190

Width of Lines, Emitted by Laser Models, by
V. S. Mashkevich, 5 pp.
UKRAINIAN, per, Ukrains'kiy Fiz Zhur, Vol VIII, No 8,
1963, pp 918-921. 9695352
FTD-TT-64-841

Sci ; Phys
Dec 64

269,770

Effect of a Magnetic Field on Phenomena in a
Diode With Cesium Vapors by H. D. Morgulis and
Yu. I. Chutov, 16 pp.

UKRAINIAN, par, Ukrains'kiy Fizichnyi Zhurnal,
Vol 7, No 9, 1963, pp 1003-1012. 9686001

FTD-FT-63-351

Sci - Phys

344,074

Sept 63

Theory of Ordering in Alloys with an fcc Lattice,
by V. V. Geichenko.
UKRAINIAN, per, Ukr Fiz Zh, Vol 8, 1963, pp 1223-
1233.
*CFSTI TT 70-59074

Sci- *phys?*
June 70

**Lasers with Two Kinds of Active Centers,
by Mashevich.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII, No 11,
1963, pp 1260-1263.
Navy Tr 4665/APL T-1269**

*Dept of Navy / 4721 / APK / Jhu TR 230-
T-157*

Sci-Phys
Mar 65

274,986

Measurement of High-Frequency Field Strength in
a Plasma via the Stark Effect. II., by
Ye. V. Lifshits', S. S. Krivulia, et al, 13 pp.
RUSSIAN, per, Uk Fiz Zh, No 8, 1963, pp 1328-1334.
AEC/UCRL-Tr-1388-69

Sci/Phy
Jun 69

382,706

Contribution to the Theory of Nuclear K Reactions,
by Yu. V. Tsekhmistrenko, 17 pp.
UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII, No 12,
1963, pp 1287-1302. 9226267
AEC-ANL-Tr-86

Sci-Phys
Jan 65

272,473

Impurity Levels in p-Type PbTe, by P. M. Starik,
P. I. Voroniuk, 6 pp.
RUSSIAN, per, Ukrain Fiz Zhur, Vol IX, No 1, 1964,
pp 26-31.
CIA/FDD X-5360

OTS-TT-64-16032

Sci - Phys
Apr 64
FOR OFFICIAL USE ONLY

255,204

Vapor Pressure in Solid Yttrium, by
A. A. Kruglykh, et al.
RUSSIAN, per, Ukr Fiz Zh, Vol IX,
No 2, 1964, pp 214-215.
NASA TT F-10,210

Sci-Phys
Jul 66

306,535

Radiation at the Second Optical Harmonic,
by V. S. Mashkevich, 6 pp.
UKRAINIAN, per, Ukrayin Fiz Zhur, Vol IX, No 2, 1964,
pp 226-229.
JPRS 28002

FTD-77-65-R5

Sci - M & DP
Feb 65

272,741

Mass Spectrometric Investigation of Degradation
of Molybdenum, Tungsten, and Rhenium on Heating
Them in a Vacuum, by L. N. Ryabchikov.

RUSSIAN, per, Ukr. Fiz. Zhur, Vol 9, No 3,
1964, pp 293-302.

*AEC ORNL Tr-1702

Sci - Materials
Jun 67

Determination of the Diffusion Coefficients of
H and Co in NI by Means of a Mass Spectrometer,
by L. M. Ryabchykov, 5 pp.
RUSSIAN, per, Ukrain Fiz. Zh. 9, 1964,
pp. 303-308.
*CFSTI TT 70-57089

Sci/phys
Mar 70

403,280

Neutron and Optical Spectra as Sources of Information About the Motion of Molecules in a Fluid,
by L. I. Komarov and I. Z. Fischer.
RUSSIAN, per, Ukr. fiz. Zhur., Vol 9, No 4, 1964,
pp 349-354.
NLL RTS 3518

Sci-Physics
Nov 67

345,344

Dependence of Optical Anisotropy of Macromolecules
on the Properties of a Solvent, by E. V. Frizman,
A. K. Dadivanyan, 7 pp.
RUSSIAN, per, Ukrayins'kyy Fizychnyy Zhurnal,
Vol 9, No 5, 1964, pp 521-526. P100173268-V
FTD-MT-24-212-67

Sci/Phys
Aug 68

364,757

The Possibility of Obtaining a Series
of Powerful Single Pulses on a Ruby Optical
Quantum Generator, by Yu. V. Bayborodin,
V. L. Broude, 6 pp.
UKRAINIAN, per, Ukrayinskyy Fizychnyy
Zhur, Vol IX, No 5, 1964, pp 570-573.
9697851
FTD-TT-65-134

Sci - M/M
Aug 65

287,549

Reflection of Electromagnetic Waves
From the Open End of a Waveguide,
by S. S. Kalmykova, 7 pp.
UKRAINIAN, per, Ukrayins'kyy Fiz Zhur,
Vol IX, No 6, 1964, pp 593-598. 9698634
FTD-TT-65-646

Sci - Elec
Dec 65

291,935

Photoelectric Properties of Heterojunctions
of Some Semiconductors, by Zh. I. Alf'orov,
M. S. Zimogorova, 5 pp.

UKRAINIAN, per, Ukrayins'kyy Fiz Zhur,
Vol IX, No 6, 1964, pp 659-663. 9698634

FTD-TT-65-646

Sci - Elec
Dec 65

291,936

Investigating Recombinations on Nickel
Atoms in p-Germanium at High Injection
Levels, by A. P. Klimenko, Yu. O. Tkhoriuk,
21 pp.

UKRAINIAN, per, Ukrayins'kyi Fizychnyy
Zhur., Vol IX, No 7, 1964, pp 733-743.

9698338

FTD-TT-65-233

Sci - Phys
Nov 65

290,149

Investigation of the Process of Heat Transfer
and Pressure Drop in Coil-Pipe Counterflow Heat
Exchangers, by E.S. Borovik, I.F. Mikhailov.
RUSSIAN, per, Ukrains'kyi Fizychnyi Zhurnal,
Vol 9, No 7, 1964, pp 749-758. 9233468
AEC LA-tr-66-25

Sci/Physics
Aug 66

306,346

Comparison of the Efficiencies of Various Heat
Exchangers of Liquefaction Machines, by
E. S. Borovik, I.F. Mikhailov, et al.
RUSSIAN, per, Ukrains'kyi Fizichnyi Zhurnal,
Vol 9, No 7, 1964, pp 759-865. P911004966
AEC LA-tr-66-26

Sci/Physics
Aug 66

306,321

ATS

UJ-5642 DETERMINATION OF THE MELTING TEMPERATURE OF SYNTHETIC FIBERS BY DOUBLE REFRACTION, O. Z. Golik et al., Ukr. Fiz. Zh. 9, No. 7, 777-81 (1964).
2300 W; 3 F; 8 R \$11.95 (\$3.00)

On the Thermal Radiation of an Inhomogeneous Layer,
by Dolgoplov.
UKRAINIAN, per, Ukrains Fiz Zhur, Vol IX, No 7, 1964,
pp 800-809.
*Dept of Navy JHU/APL No J597

Sci- NS
Aug 65

Transient Processes of Storage and Decay
of Non-Equilibrium Carriers in Semiconduc-
tor Diodes, by Gribnikov, Tkhovik, 11 pp.
RUSSIAN, per, Ukrains Fiz Zhur, Vol IX,
No 8, 1964, pp 851-861.
ACSI I 9370
ID 2204015966

Sci - Elec
Mar 66

297,843

Electrical Transfer of Silver in Liquid Lead and
of Cobalt in Liquid Tin, by P. P. Kuz'menko, E. I.
Kharkov, et al., 10 pp.
RUSSIAN, per, Ukrainskiy Fizichmiy Zhurnal,
Vol IX, No 8, 1964, pp 881-889, 9230407.
AEC IS-trans-19

292,993

Sci-M71
Nov 65

RGa_3 Compounds in Rare-Earth Metal-Gallium
Systems, by P. I. Kripyakevich.
RUSSIAN, per, Ukrainskii Fizicheskii Zhurnal,
Vol 9, 1964, pp 908-910.
NTC-70-13083-11F

Feb 72

Generagion of the Second Optical Harmonic in a Plane-parallel Plate, by L. A. Marushko, V. S. Mashkevich.
UKRAINIAN, per, Ukrainski Fiz Zhur. Vol IX, No 8, 1964,
pp 921-925.
*Dept of Navy/JHU/APL J566

Sci - Eng
Jul 65

282,328

Electric Properties of Alloys in the System
 $\text{CuInSe}_2\text{-In}_2\text{Se}_3$, by L. S. Palatnik, Yu. F. Kozmik,
13 pp.

UKRAINIAN, per, Ukrayins'kyy Fizychnyy Zhurnal,
Vol 9, No 9, 1964, pp 962-972.
AIR/FTD/HT-67-414

Sci-Phys
Nov 68

353,669

Interaction of Nonlocalized Mott Excitons with Dislocations,
by M. A. Ruzinsky.
UKRAINIAN, per, Ukrainskii Fiz Zhur, Vol IX, No 9, 1964,
pp 1009-1015.
*Dept of Navy JHU/APL J369

Sci - Phys
Jul 65

282,329

Effect of Electrode Geometry of a
Coaxial Gun on the Parameters of Plasma
Clots, by A. O. Kalmikov, V. G. Marinin,
5 pp.

UKRAINIAN, per, Ukrayins'kyi Fizychnyy
Zhur, Vol IX, No 9, 1964, pp 1023-1025.
9698216

FTD-TT-65-651

Sci - Phys
Oct 65

290,104