

(NY 100)

Consistent of Changing Supply Prices in Poland.
by Jerry Gosciniak, * pp.

Journal, p.m. Gospodarka Planowa, Vol. IV, No. 6,
1961, p. 1-5.

JPRS 1303

Date: 1961

1303
1303

1303/1303

(NY-6257/5)

On the Question of the Design of an Inertial
Navigation System With a Platform Stable in
Inertial Space, by M. I. Zacharin, 8 PP.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk --
Energet i Avtomat, No 1, Jan/Feb 1961, pp 153-155.

JPRS 9741

Sci - Electron, Engr

Aug 61

165, 265

Clamping and Holding Device for Nuclear Reactors,
by Arno Mueller, Armin Zacharis, 4 pp.

GERMAN, Patent Application 5 Dec 1961.

AEC Tr-5166

212,663

Sci - Nuc Phys

Sep 62

Regeneration of the Constituents of Sintered
Ceramide Scrap, by B. Zacharszewski.

CZ20H, per, Autok, Vol 20, No 3, 1953.

pp 63-73.

*JISI 3541

101-Hat
Sep 73

B. Zacharszewski

QUALITY ASSESSMENT OF POLISH SINTERED CARBIDES,
BY BOLESŁAW ZACHARZEWSKI, 13 PP.

POLISH, PER, MECHANIK, NO 6, 1962, PP 425-427.

JPRS 15836

EUR-POLAND

ECON

NOV 62

215,240

Reaction of Sodium Peroxide and Hydroperoxide
with Sodium Bicarbonate, by T. V. Kozlov,
A. A. Golder, and A. V. Zuchatskaya, 3 pp.

RUSSIAN, per, Zhur Neorgan Khim, No 3, 1961,
pp 538-539.

Cleaver-Hume Press

Sci

Oct 62

130,129

Reaction of Sodium Peroxide and Hyperoxide
with Sodium Hydroxide and the Hydroperoxide
A. V. Kozlov, G. K. Gribchenko, and N. V.
Zachatskaya, 3 pp.

RUSSIAN, per, Zhur Morgan Khim, No 3, 1964,
pp 529-534.

Cleaver-Euro Data

001

Oct 60

130,128

and others.

FRACTIONATION OF SOLUBLE RIBONUCLEIC ACID.

[1962] 6p. 8 refs.

Order from S.A. \$1.10

63-10792

63-10792

I. Zachau, H. G.

Trans. of Biochim[ica et] Biophys[ica] Acta (Netherlands)
1961, v. 51, p. 221-223.

DESCRIPTORS: *Distillation, *Ribonucleic acids,
Solubility, *Chromatographic analysis, Enzymes, Amino
acids, Biochemistry, Chemical analysis.

(Biochim[ica et] Biophys[ica] Acta, v. 10, no. 1)

Office of Technical Services

502
Measuring the Electrical Conductivity of the
Air in the Free Atmosphere from an Aircraft,
by S. I. Zachek, 35 pp.
RUSSIAN, per. Trudy Glavnyy Geofizicheskoy
Observatorii imeni A. I. Voznesenskogo, Leningrad,
No 157, 1964, pp 94-130.
JPRS 48921

S. I. Zachek
Sci-Atmos Sci
Oct 69

392.574

(NY-10)

On the Accuracy of the Method of Geodetic
Intersections, by G. Zacher, 17 pp.

GERMAN, par, Vermessungstechnik, Vol IX,
No 5, 1961, pp 145-149.

JPRS 11062

Sci - Engr, Phys
Dec 61

176,204

Results of the Performance and Handling Tests
of the Glider D30 "Cirrus" by H. Zacher,

Vol VI,
GERMAN, par, D.V.L. Mitt, Ser-6, No 1,
1944.

R.A.E. 537

30,868

Sci - Engineering
aerona. ties

A Polytonic System of Number Transmision in Long
Distance Channels, by V. M. Zacharov, 8 pp.

RUSSIAN, per. Elektrosvaz, No 3, Mar 57, pp 50-57

618 606 864

ATIC F-TS-9223/7

Sci - Electronics

Apr 58

61,729

Reclaiming Rubber in the Form of Aqueous
Dispersions, by B. A. Dogadkin, G. N. Zacharova,
6 pp.

RUSSIAN, per, Kautchuk i Rezina, Vol XX, No 12,
1961, pp 15-21.

RAIRA

Sci

Nov 62

216,471

The Preparation and Properties of Aqueous Dispersions
of Vulcanized Synthetic and Natural Rubbers, by
S. I. Bogodkin, G. N. Lucnesova, I. I. Lukin.
6 pp.

RUSSIAN, per, Kolloid Zhur,
Vol. XXIII, No. 2, 1961,
pp. 150-156

CB

Sci

189,033

Mar. 62

Zachmann, Hans Gerhard and Schmidt, Günther
Friedrich

MELT AND CRYSTALLIZATION PHENOMENA OF
MACROMOLECULAR SUBSTANCES. VI RESULTS
OF SMALL AND WIDE ANGLE X-RAY STUDIES
OF POLYGLYCOLTEREPHTHALATE (TERYLENE).
[1963] 25p. 15 refs.

Order from SLA \$2.60

63-16565

Trans. of Makromolekulare Chemie (Switzerland)
1962, v. 52, p. 23-35.

DESCRIPTORS: *Fibers (Synthetic), *Polyester
plastics, *Dacron, Glycols, *Phtalates, Ethylenes,
Melting, Crystallization, Molecular structure, X-ray
diffraction analysis.

X-ray investigations show that the small angle period
decreases with increasing crystallinity in the course
(Materials--Textiles, TT, v. 10, no. 7) (over)

63-16565

I. Title: Polyglycoltere-
phthalate

I. Zachmann, H. G.

II. Schmidt, G. F.

III. Title: Results...

1447557

Office of Technical Services

Studies on the Occurrence of M- and H-Receptors in
Tumor Tissues, by Alfred Zacho, 15 pp.

GERMAN, per, ~~XXXXXX~~ Zeitschrift für
Immunitätsforschung und experimentelle Therapie,
Vol LXXVII, Nos 5, 6, 1932, pp 520-528.

NIH

Scientific - Medicine
May 1954 CTS/DEX

12,139

The Stm Behaviour of Heat-Resisting Steels During
Creep Testing at 500-700° C. V. Scatter in the
Measurement of Long-Time Creep Data, by Schluter;
Miniature Creep Tests and Their Evaluation, by K. Helle
Stauffer; Statistical Evaluation of Results of Creep
Tests as a Means of Establishing Minimum Design σ Data
by Zachokko.

GERMAN, per, Arch Eisenhüttenwesen, Vol XXVIII, Nov
1957, pp 717; 719; 726.

Co-op Tr Sch Tr 843 60,841

Sci - Min/mat
Apr 58

K. Zachos

Petroleum Prospecting in Greece.

ENGLISH, rpt, World Petroleum Congress (no. 6).

19-26 June 1963, Section I, pp 311-321.

WTC 72-13601-081

Nov 72

EVALUATING SCIENTIFIC WORK AT INSTITUTIONS OF
HIGHER EDUCATION FOR 1961, BY LEO J. JENNINGS,
12 PP, GOVERNMENT USE ONLY.

CHECK, PERS. VETERAN SERVICE, VOL. 22, NO. 5, 1962-1963,
PP 100-101.

JAN 63

LA-000A
SEC
JAN 63

100-101

100-10
The Problem of the Critical Frequency of
Intermittent Exposures, by Ladislav Zachvatov,
7 pp.

SIKOLIN, J., Ceskoslovensky časopis pro
Fyziku, Vol VIII, No 1, 1954, pp 17-22.

SLA 60-14659

100

187, 181

Vol 4, No 1

[illegible]

TRIDIAN, et, Anachoridae, Vol VI, No 1.

Azer Inst of Biol Sci
\$10.00

304 - 322.

Jan 59

88,964

15

A Course on the History of Minnesota Literature
During the Period Between the Two World Wars,
by Marvin Stone, M. Oronstein, 20 pp.
KIMMEL, M. Oronstein, Vol VII, No 17,
20 Apr 1944, 20-4, 9.
SP25 20440

EE-200000
200
Jul 1944

242,721

Studies in Regard to the Problem of Osmotic Con-
centration of Liver Cells, by G. Riecker, W. Koch
and H. E. Ranschler, 1 p.

GERMAN: par, Pringlers Arch Ges Physiol, Vol CCLXIV,
1967, pp 245-259.

SIA 57-3114

Sci

Aug 58

21 122

F. Zacuto

Instantaneous Circulation Changes After Electrical
Reduction of Severe Arrhythmias.

GERMAN, per, Deutsche Gesellschaft fuer
Kreislaufforschung, Verhandlungen, Vol 29, 1963,
pp 255-262

NTC 72-13470-06K

Oct 72

(NY-7165)

PROGRAM OF ACTIVITIES FOR THE INSTITUTE OF
SCIENTIFIC RESEARCH OF THE UPPER SILESIA:
INDUSTRIAL OKREG IN ZABRZE, BY EUGENIUSZ
ZACZYNSKI, 21 PP.

POLISH, PER, NAUKA POLSKA, VOL X, NO 2 (3-),
1962, PP 95-102.

EEUR-POLAND
ECON
31 JUL 62

JPRS 14585

203,017

PROFILES AND SHEETS FROM MAGNESIUM ALLOYS, BY
STANISLAW ZACZKOWSKI, 11 PP.

POLISH, PER, RUDY I METALE NIEZELAZNE, VOL VII,
NO 9, SEP 1962, PP 400-407.

JPRS 16624

EEUR - POLAND
ECON .
DEC 62

218,351

Prevention of Brown Stains When Blowing Oxygen Through
Steel Buns, by G. S. Sel'kin, N. I. Zhdalya.

RUSSIAN, per, Stal, Vol XVII, No 10, 1957, pp 887-
88 887.

Brutcher Tr 4056
\$5.85

Sci - Physics
Mar 58

62 363

USSR Steel Millers Congress. The Problem of Mechanization and Automation of the Oxygen Supply to the Electric Steel-Refining Furnaces, by G. S. Galina, B. P. Lavina, 8 pp.

RUSSIAN, Izv. Moshburg, No 2, 1957, pp 8-10.

Consultants Bureau

Vol. 1 - Moshburg 11 vol.
Part 10

Handwritten signature

Generalization of the Problem of Calculating the
Permeability of Top and Bottom Layers of a
Formation During Movement of Fluid Through It.
by N. A. Gulyaev-Sade, 12 p.

RUSSIAN, per, Trudy Moskovskiy Nertyanoy Inst,
1956, Vol XVI, pp 70-83.
51.

ATS-531342

S
Per
Apr 6.
Vol III, No 2

11/578

Investigations on Malaria in Iran; Salt Lakes
Near Ashk (Soulstanabad) and Their Vicinity,
by A. Zaden, 2 pp.

GERMAN. per, Acta Med Scand, Vol CVII, No 6, 1941.

SLA 57-1624.

Sci-Medicine
Mar 58

60, 4544

Transmission of Plasma Across Magnetic Barrier
in the Presence of High-Frequency Fields, by
I. I. Babayev, Yu. G. Zhdoskiy, et al. 6 pp.
RUSSIAN, per. Fizic-Tekhnicheskii Institut
1963. 822705J
AEC UCRL-Tr-1143(L)

to E. Zhdoskiy

Sci/Physics
May 66

301,067

(MTD 28366)

The Influence of Inhibiting Agents on the Planting
value of Potatoes, by I. Zadina, B. Votoupal, B.
Gavlichkov, 26 pp.

RUSSIAN, bino per, Sotsial Sel'skikh, Vol III, No 4,
Moscow, Jul/Aug 1954, pp 350-364.

CIA/MTD U-9011

USSR

Sci - Biology

Oct 56 ODS

40, 781

Influence of Certain Pharmaceutical Products on the
Acetylcholin Contraction of the Ileum, by Dr Rudolf
Zadina, 5 pp. UNCLASSIFIED

CZECH, Casopisn lékařu ceskych, Vol LXXXV, No 1292,
1946, p 173.

ID GSUSA F-6538

Sci - Med

Aug 1951 CTS

Contribution to the Pharmacology of Local Anaesthetics, by Dr. Rudolf ~~Radica~~, Dr B. Schovanec, 6 pp.
UNCLASSIFIED

CZECH, Časopis lékařů českých, Vol LXXVI, No 810,
1947.

ID GSUBA F-6539

Sci - Med

Aug 51 CTS

The Influence of Various Factors on the Histamine Con-
traction of the Guinea-Pig's Ileum, by Dr R. Zadina,
25 pp. UNCLASSIFIED
(ID 888562)

Full translation.

CZECH, Obecná farmakologic histaminu.

ID CSUBA F-6540

Sci - Medicine
Biology

May 52 CTS

(C90: 9970-8)

The Material-Technical Base of Communism and the
Victory of the USSR in the Economic Competition
With Capitalism, by V. Zadnepryanets, 11 pp

RUSSIAN, per, Kommunist@raiy, No. 4, Kiev,
Apr 62, pp 73-80

JPRS: 15,218

USSR
Econ
Sep 62

211, 043

Machine Tools for Machining Radiators and Boiler
Sections, by A. S. Zadonin, 4 pp.

RUSSIAN, per, Stanki i Instrument, Vol XXXII,
No 12, 1961, pp 12-14.

PERA

Sci
Sep 62

210,555

The Work of the Zabaykal Section of the Eastern
Siberia Society for Regional Studies, by B. P.
Zadornov.

RUSSIAN, per, Za Industrializatsiya Sovet Vost, No 2,
Sov Aziya, Moscow, 1932, pp 231.

Available ORR/E Geo Div
OSU Series A, No 27

USSR

Scientific - Geophysics

2133

Questions About the Zabaykal Study, by B. P.
Zadornov.

RUSSIAN, per, Za Industrializatsiya Sovet Vostk, No 2,
Moscow, 1932, pp 232-233.

Available ONS/Geo Div
OSU Series A, No 20

USSR

Scientific - Geophysics

2134

NEW ROADS TO NEW TECHNIQUES, BY P. ZADOROGIN, 5 PP.

RUSSIAN, 1P, TRUD, 10 OCT 1962.

JPRS 16571

USSR

ECON

JAN 63

215,657

Tissue Culture Investigation of Antivirus Pro-
perties of Actinomyces Isolated From Ukrainian
Soil, by N. M. Oserynskaya, M. A. Zadorenko.
11 pp

RUSSIAN, per, Antibiotiki, Vol 8, No 7, 1963,
pp 611-613.

SLA-TT-64-19293

M. A. Zadorenko

Sci/NSM

Jul 66

305,928

Б. З. Задорозный

Luminescence of Systems with Hydrogen Bonds,
by B. Z. Zadorozhnyi
RUSSIAN, per, Akademika Nauk SSSR, Izvestiya,
Seriya Fizicheskaya, Vol 24, 1960, pp 758-762
NTC 71-15507-07D

Feb 72

On the Transfer of Litter Patients from Ship to Ship
on the Open Sea, by A.A. Zadorozhnyy

RUSSIAN no war, Voenno Med Zhur, No 4, Moscow,
April 1958, pp 80-81

US JPRS/RY -599

USSR
Title
Aug 58

69.133

The Metabolism of Certain Trace Elements in the
Long Tubular Bones in General Skeletal Disease,
by M. G. Belan, ~~Elman~~ B. A. ~~Adorzhnyy~~. 15 pp.
RUSSIAN, per, Ortoped, Travmat i Proctirovaniye,
Vol XXV, No 1, 1964, pp 41-48.
JPRS 24153

Sci - Med
Apr 64

254, 373

Peculiarities of the Luminescence of Ortho-
Disubstituted Aromatic Hydrocarbons III. The
Fluorescence and Absorption Spectra of Some
Carboxylic Acids, by Yu. V. Maboikin, B. A.
Zadoroshny, E. N. Pavlova, 3 pp

RUSSIAN, per, Optika i Spektro, Vol VIII, No 5,
1960, pp 651-656

OSA

Sci
May 61

150,708

The Artificial Satellite and International Law, by
G. Zadorozhnyi, 8 pp.

RUSSIAN, 12 Nov 1957.

SLA R-3411

Sci

Aug 59

95, 317

(NY-5100)

TRANSPORT CONNECTIONS IN KAZAKHSTAN, BY
ZADONCHENKO, 4 PP.

KAZAKHSTAN, SP, HOOK, 5 OCT 1981.

JPRS 12614

USR
ZADONCHENKO
DA 12

1 3,221

Fractionation of Isotope Oxygen in the Soil, by
L. N. Khitrov, I. K. Zadorenko, 8 pp.

RUSSIAN, per, Pochvovedeniye, to 1, 1960, pp 5-11.

AIS

Sci
Jul 61

157,606

Chloroplatinic Acid as a Catalyst for the Addition
of Silanes Containing Silicon-Attached Hydrogen to
Unsaturated ~~XXXXXXXXXXXX~~ Compounds, by V. A.
Ponomarev, V. G. Cherkayev, A. D. Petrov, N. A.
Zadorozhnyi, 8 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,
No 2, 1958, pp 247-248.

Consultants Bureau

Sci - Chem

May 59

86,903

The Alliance of Science and Practice, by
V. Zolotarev. 8 pp.
UCHABIAN, PIR, Cheshkovskaya Pishche,
No 9, 1968, pp 24-28.
JPRS 20000

4

UNCL
Recd
Jan 64

24,222

Petroleum Refining in the Krasnodar Territory, by
A. G. Zadov, 3 pp.
Atal

RUSSIAN, bk, Neftyanaya Promyshlennost'
Krasnodarskogo Kraja, Moskva, 1957, pp 57-60.
Encl to IR-1875-58

AP 1187309

USSR
Econ
Feb 59

81,353

Petroleum Refining in the Krasnodar
Territory, by A. G. Zador, et al, 4 pp.
UNCLASSIFIED

RUSSIAN, per, Krasnodarskogo Kraja, Moscow,
no. 1957, pp 57-60.

AF 1187309

USSR

ECON

Sci - Fuels

Jan 59

78, 920

Металлическая Промышленность Краснодара,
№ 1. 11. 1960, 1; 57-60.

•АИД

A Particular Solution of the Equations of the
Theory of Perfect Plasticity, by A. A. Zadoran,
1964.

Trudy, Ser. Sov. Akad. Nauk. Physics Sections,
Vol. XLVI, no. 1, May 1964, pp. 55-59.

Sov. Inst. of Phys
Moscow Sov. Phys
Vol. IX, no. 5

501

Jan 65

270,555

Creep of a Cylindrical Tube Subjected to the
Combined Effect of Internal Pressure, Axial
Force and Torque, by H. A. Zolotarev.
RUSSIAN, Izv. Akad. Nauk SSSR, Mekh. Tverdogo Tela, No 1,
1968, pp 157-160.
CIA A-6708

H. A. Zolotarev

August 68

357,523

Zakoyan, M. A.
THERMAL STRESSES IN INFINITE CONCRETE
SLABS WITH CONSIDERATION OF CREEP [1962]
21p. 2 refs.
Order from OIS or CIA \$2.60 63-10198

Trans. of Akad[emiya] Nauk Armyan[skoi] SSR
[Fizika] [Izvestiya. Seriya] Fiz[ika]
Mat[ematicheskii] Nauk, 1958, v. 11, no. 1,
p. 27-46

DESCRIPTION: *Concrete. *Thermal stresses.
*Creep. Temperature. Cooling. Air. Mathematical
analysis

The stress condition of an infinite concrete slab is
examined for cases of harmonic variation of the
temperature of the outside air and cooling of the slab
surface.

(Mechanics, 11, v. 2, no. 12)

63-10198

1. Title Slab
1. Zakoyan, M. A.

Office of Technical Services

The Spreading of the Plastic Zone in an
Inhomogeneous Tube Under the Dynamic In-
fluence of Pressure, by M. A. Zadayan, 9 pp.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSSR,
Fiziko-Matematicheskiye Nauki, Vol XIII,
No 3, 1960, pp 89-95. 9670992

FTD MCL-1114/1 + 2

Sci - Phys

Sep 61

169,293

Creep of a Concrete Plate Subjected to
the Action of Gamma Radiation, by M. A.
Zadovyan.

RUSIA, for, Doklady Akad Nauk Armianskoi
SSR, 1990, Vol 30, No 5, pp 257-263.
RUSIA 2450 (On Loan or Purchase)

M. A. Zadovyan

AUG 65

257,018

Creep in a Concrete Block at Elevated
Temperatures, by M. A. Ladoynov.

ROSIAD, per, Iz Ak Nauk SSSR, Otdel Tekhn. Nauk,
Mekh i Mash, No 4, 1961, pp 130-135

ILL M. 3855

Not - Engr

Nov 62

219,538

THE EMISSION AND WITHDRAWAL OF MONEY IN
YUGOSLAVIA, BY B FRANKO ZADARNEC, 7 PP.

CROATIAN, PER, EKONOMSKI PROGLAS, NO 8,
1962, PP 603-615.

JPRS 17501

EEUR - YUGO
ECON .
MAR 63

223,79

21
The Synthesis of Logic Circuits Transforming
Information to a Herring Code, by A. G.

adrevskiy, 7 pp.

RUSSIA, Ek, Gibernetika -- Na Sluzhbu Komandirov.

Teoriya Informatsii, Vychislitel'naya Tekhnika,

Teoriya Informatsii, Vol 3, pp. 8-20.

JPRS 6533

100

Sci-180

Jul 67

100.32

(NY-5478)

Methods of Calculating Stock Index in Days for Raw
Material, Other Materials, and Fuels, by Stefan
Zadzynski, 12 pp.

POLISH, per, ^oWiedomości Statystyczne, Vol V, No 4,
Jul/Aug 1960, pp 14-17.

JPRS 7696

EEur - Poland
Econ
Mar 61

141,457

(17-10)

of Therapy by Means of Intracranial
Stimulation of Reticular Cells in
the Brain. Results and Limits of
the Treatment, by H. Alvarez, M.
C. Alvarez, M. Adubian, 6 pp.

1971, par. Neoptoma, Vol VIII
pp 331-335.

JPRS 11907

1971, 1971

174, 046

1971, 1971

23

**Normal Pattern of Feeding of Gull on the Flaming
Grounds of the Burren, by E. S. Smith, M.A.,
E. S. Smith.
SMITH, M.A., M.A., Trudy Vassanagay Numbin-Jahed
Indonesian Language Exchange Class I Class, Vol IV,
1968, pp 22-23.
Publication No 24 of Canada**

Sci-Stat, 1964
Aug 64

205,27

36
Feeding and Food Relationships of Freshwater Fishes
in the Southern Part of the Khabarovsk Reservoir,
by E. S. Zakharenko, 37 pp.
RUSSIAN, 1964, 114 pp. 345-493. 92M544
OTS 63-3827
PL-400

Sol - Sol & Med Sol
May 64

287,446

Feeding and Food Relationships of Predatory Fishes
in the Northern Part of Rybinsk Reservoir, by
Zh. Z. Zechul'skaya, 61 pp.

RUSSIAN, per, Trudy Dneprovskoi Gosudarstvennoi
Zapovednik, No 6, 1960, pp 345-405.

NOTS 63-11127
FL-480

Sci
Mar 64

Diurnal Pattern of Feeding of Cod on the
Fishing Grounds of the Barents Sea, by E. S.
Zadulskaya, K.S. Sainov.

RUSSIAN, per, Trudy Vses M I Inst Morskogo
Rybnogo Khoz i Okean Vnizro, No 4, 1939,

pp 38-321

NRC/Ref C-4/21

ES ZADULSKAYA

Sci -

Jul 7

221, 11

Feeding and Food Relationships of Predatory Fishes
in the Northern Part of Rybinsk Reservoir (Pitkhanie
i Pishchevye Bzaimootnosheniia Khishchnyykh Ryb
Severnoi Chasti Rybinskogo Vodokhranilishcha), by
E. Z. Zadul'skaia.

RUSSIAN, Trudy Darvinskii Godudarstvennyi
Zapovednik, No 6, 1960, pp 345-405.

*PL-480

Sci -
Aug 63

Effects of the Method of Preparation and of
Raw Material Quality on the Stability of
Thiamine Hydrochloride Aqueous Solutions for
Injections, by Z. Zwolinska, M. Zaduminski, 6 pp.

POLISH, per: Acta Polonica Pharmaceutica,
Vol XX, No 4, 1963,

CE 63-11412/4
PL-400

Sci
Jul 64

263,056

Statistical electronic theory of the interphase
surface energy of metals on a crystal-melt interface
By S. N. Zadumkin, 9 PP.

RUSSIAN, per, Fiz Metal i Metallov, Vol XIII, No 1,
1962,

PP

Sci

Aug 63

342,537

Zadumkin, S. N. and Khotonov, Kh. B.
SURFACE ENERGY OF THIN METAL FILMS. [1963]
[9p] 12 refs
Order from OTS, SLA, or ETC \$1.10 TT-63-20728

Trans. of Fizika Metallov i Metallovedeniye (USSR)
1962, v. 13, no. 5, p. 658-662. (Abstract available)

DESCRIPTORS: *Metal films, *Surface tension,
*Quantum mechanics,

The statistical electron theory of surface energy of
metals is used for a qualitative estimate of the surface
energy σ_{ph} of thin metal films as a function of thickness.
It is shown that the change of σ_{ph} relative to σ_0 of bulk
metal is small in determining the decoverage of the
film. (Author)

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

TT-63-20728

I. Zadumkin, S. N.
II. Khotonov, Kh. B.

Office of Technical Services

The Surface Energy of Copper Oxides, Sulphides
and Selenides, by S. N. Zadumkin, V. Kh. Khudayev, 1967,
5pp.

RUSSIAN, per, Iz Izvestiya Vyschish Uchebnykh
Zavedeniy, Kazan, No 6, 1967, pp 112-114, 9216713

PADA TT P-167

Sol- Cit
JUL 1967

246,183

Surface Tension and Heat Vaporization of Metals,
by G. M. Zadumkin, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR,

ABC JPLAI Tr-16

Sci - Min/Met
May 61

150,376

Zadumkin, S. N.

15. **ENERGY OF THE SURFACE OF IONIC CRYSTALS** (Prilozheniya. Raschet Poverkhnostnoy Energii Ionnykh Kristallov) tr. B. G. Belkov. 1961. 15p. 23 refs. NRCC Technical Trans. 948.

Order from NRCC \$1.00

NRCC C-364

Trans. of Investirovaya Vysokikh Uchebnykh Zavedeni
Pizika (USSR) 1954, no. 2, p. 151-155

DESCRIPTORS: Alkali metals; Halides; Quantum mechanics; *Crystals; Surface properties; Ions; Energy

61-22396

I. Zadumkin, S. N.

II. NRCC TT-948

III. NRCC C-364

IV. National Research Council of Canada

(Chemical Abstracts 57:15150d)

Approximate Calculation of the Surface Energy of
Some Semiconductors Having the Structure of
Diamond and of Zinc Blende, by S. N. Zadumkin,
1 pp

USPISAN, Izv Fiz Tverdogo Tela, Vol II, No 5,
1960 pp 878-882.

AIP
Sov Phys-Solid State

138, 134

Jan 61

The Interphase Surface Energy of a Metal at the
Crystal-Melt Interface, by S. N. Zudumkin, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXX, No 4,
1960, pp 810-811.

CB

150,018

Sci

Apr 61

Approximate Estimation of Critical Temperatures
of Metallic Liquids, by S. N. Zadumkin, 4 pp.

RUSSIAN, per, Inz-Fiz Zhur, Ak Nauk Belorus SSR,
Vol III, No 10, 1960, pp 63-65.

AEC Tr-4404

Sci - Phys
Apr 61

149,057

Surface Tension and Heat of Vaporization of
Metals, by S. N. Zadumkin.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR,
Vol XCII, No 1, 1953, pp 115-118.

Brutcher Tr

No 3330

82.75

Scientific - Minerals/Metals

OTS/DEX

20,092

On the Temperature Dependence of the Surface Tension
of Metals, by L. M. Zolunkin, 5 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CI, No 3, 1955,
pp 507-509.

A.E.R.E. Harwell Lib Tr 698
Sci Mus Lib Tr 56/1535

Sci - Min/metals

40,639

A Simple Method of Calculating the Surface Energy of
Ionic Crystals

By S.I. Zadurkin and V.Kh. Khulankhanov pp3

RUSSIAN, per, Fizika Tverdogo Tela, Vol V, No 1,
1963, pp48-51

Amer Inst of Phys
Sov Phys - Solid State
Vol V, No 1

Sci

Sep 63

344 050