

NCH-201 953

Field 7D, 20B

Sharoyan, E. G.; Tikhomirova, N. N.
NATURE OF PARAMAGNETIC RESONANCE IN
MOLECULAR CRYSTALS OF MAGNESIUM PHTHALO-
CYANINE (O Prirode Paramagnitnykh Tsentrov v
Molekulyarnykh Kristallakh Ftalotsianida Magniya).
Aug 66, 7p, 14 refs. TIL/T.5596.
Order from NLL

Trans. of Zhurnal Strukturnoi Khimii (USSR), v5 n5
1964

I. Technical Information and
Library Services,
Ministry of Aviation,
London (England)

S-5/63

Calculation Method of Short-~~EM~~Wave Field Intensity
at Long Range, by A. N. Shchukin

RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, Vol II,
No 6, 1932, pp 550-569.

*JPRS/DC-8360

Sci - Electron
Jan 63

A Synchronous Action of Self Excited Oscillatory
System, by J. B. Kobsarev.

RUSSIAN, per, Zhur Tekh Fiz, Vol III, 1933.

*Emmanuel College
Res Tr Center

Sci

20 Feb 62

SHITANKO, D. A.

ZHURNAL TEKHNICHESKOI FIZIKI, vol 3, No 7, 1933

Use of a Rotary Magnetic Field in the Casting of
Metals

Brutcher Tr 2126, \$3.90

Luminescence of a mixture of argon and nitrogen,
by V. A. Konovalov, and S. E. Frish, 12 pp,

RUSSIAN, per, Zhur Tekh Fiz, Vol 4, No 3, 1934,
pp 523-533.

Sci Museum Lib No 51/2060 - London

Study of the Diffusion Coefficient in Some Cu
Alloys, by V. Bugakov.
~~RUSSIAN~~ paper ~~Zhurnal Fiz.~~, Vol 4, 1934, pp 1342-
1346. Russian Zh Tekhn Fiz
*CESTI TT 70-59073

Sci- *Bluy*
June 70

Oxides of Silver Used in the Production of Cesium
Photocells, by Ye. V. Gernet, K. K. D'yakov.
RUSSIAN, per, Zhur' Tekh Fiz, Vol IV, No 10, 1934,
pp 1867-1876.
ERDL, Ft Belvoir T-1712
(AD 436422)

Sci - Phys
Sep 64

265,053

Mechanics of Frozen Ground, by G. I. Pokrovskiy, 21 p

RUSSIAN, per, Zhur.Tekh.Fiz., Vol V, No 6, 1935,
pp 1047-1056.

Sci Tr Center RT-2493

USSR
Scientific - Physics

28, 26 3

Nov 55
CTS/DEK

Zhur Tekh Fiziki

Vol VI No.1 (1936) pp 151-162

"Electrostatic Generators of
High-Voltage Direct Current"

Proj# 7698 (ST-213)

Date: _____ (by Bancroft) *wcl*

Quantitative Determination of Platinum and Accompanying
Substances (Satellites) in Ores, Ore Slimes and
Tailings by a Spectral Method, by V. V. Nedler, 14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol VI, No 3, 1936,
pp 553-560.

NRC TT-824

Sci
Jun 60
Vol III, No 5

119, 118

Zhur Tekh Fiz

Vol 3, No 9 (1936)

Knocking in an Internal-Combustion Engine

*H. Sokolik +
H. Voinov*

REC Index. 274

Rec'd @ Brookhaven

The Determination of the Effective Radius of Pores in
Porous Materials and Filters, by A. I. Aganov.

RUSSIAN, per, Zhur Tekh Fiz, Vol VI, No 9, 1936, pp
1601-1607.

Sci Mus Lib 50/1011

Scientific - Physics

12,929

Zhur Tekh Fiz Vol 6, page 1841 (1936)

The Problem of Magnifying Frequency by Means of
Magnetrons, by A. A. Slutskin

AEC Trans (avail. Brookhaven)

(FDD 19262)

A Method for Measuring the Velocity of Propagation of
Electro Magnetic Waves, by L. I. Mandelshtam,
H. D. Papalekhi, 37 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol VII, No 6, Moscow/
Leningrad, Jun 1937, pp 579-578.

CIA/FDD/U-5853

USSR
Scientific - Electronics

16,079

(FDD 19263)

The Experimental Investigations of the Velocity of
Propagation of Electro Magnetic Waves in the Broadcast
Band, by Ye. Ya. Shchegolev, 78 pp.

RUSSIAN, no per, ~~Zhur Tekh Fiz~~, Vol VII, No 6, Moscow/
Leningrad, Jun 1937, pp 579-613.

CIA/FDD/U-5854

USSR
Scientific - Electronics

16,077

The Dependence of the Coefficient of Thermal
Conductivity of Gases and Vapours on Pressure,
by M. B. Vargaftik.

RUSSIAN, per, Zhur Tekh Fiz., Vol VII, No 11,
1937, pp 1199-1216.

MLL RTS 2052

Sci - Phys

Aug 62

207,577

The Dependence of the Coefficient of Diffusion on the Concentration of the Diffusing metal, by W. S. Bugakov, et al. RUSSIAN, per. Zhur. Tekhn. Fiz. Vol. 7 no. 15, 1937, pp. 1577-1585
*CPSTI TT 70-57032

Sci/phys
Feb 70

Effect of Surface-active Substances on Work of
Welding Metals (in aqueous and aqueous-alcoholic
solutions), by E. P. Azkoshchikova.

USSRAN, per, Zhur Tekh Fiz, No 8, 1938, pp 22, 23.

Sci Museum Lib
50/0400

15,061

Scientific - Physics

Dobrolyubskii, A.

PHOTOSENSITIVITY AND SECONDARY ELECTRON
EMISSION FROM OXYGEN CESIUM LAYERS IN DIFFUSION
PROCESSES. [1963] [16p] AERDL T-1688.
Order from OTS or SLA \$1.60 TT-63-23942

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1938,
v. 8, no. 3, p. 226-231.

DESCRIPTORS: *Photoelectricity, *Semiconductors,
*Thin films, *Metal films, *Cesium compounds, Oxides,
Impurities, Silver, Diffusion, *Secondary emission

(Physics--Solid State, TT, v. 11, no. 6)

TT-63-23942

- I. Dobrolyubskii, A.
- II. AERDL T-1688
- III. Army Engineer Research
and Development Labs.
Fort Belvoir, Va.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Propagation of Oscillations in a Two-Phase
System by A. Viglin.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki
Vol VIII, Nos 3/4, 1988, pp 275-285.
*NASA TT F-10,943

Sci-Methods and Equipe
May 67

Zhur Tekh Fiz Vol 8, page 1014-22 (1938)

Distribution of the Energy of Secondary Electrons
Emitted by a Composite Cesium Cathode. By A. I. Pyatnit-
ski.

AEC Trans (avail. Brookhaven)

Zaitsev, N. S. and Khlebnikov, N. S.
SOME TECHNOLOGICAL PROBLEMS RELATING TO
OXYGEN-SILVER-CESIUM PHOTOELECTRIC CATH-
ODES. [1963] [28p] 9refs AERDL T-1689.
Order from OTS or SLA \$2.60 63-24016

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1938,
v. 8, no. 11, p. 1023-1033.

DESCRIPTORS: *Cathodes, Oxygen, Silver, Cesium,
*Phototubes, Manufacturing methods, Films, Tests,
Cathodes (Electron tubes).

(Engineering--Electronic, TT, v. 10, no. 12)

63-24016

- I. Zaitsev, N. S.
- II. Khlebnikov, N. S.
- III. AERDL T-1689
- IV. Army Engineer Research
and Development Labs,
Fort Belvoir, Va.
- V. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

The Effect of the Duration of the Load on the
Hardness of Metals and Their Alloys, by V. P.
Shishokin.

RUSSIAN, per, Zhur Tekh Fiz, Vol VIII, No 18,
1938, pp 1613-1628.

BISI 1766

Sci - Phys

SA/4/17

Oct 60

130,698

Goldbreich, Yu. V.
PREPARATION OF THERMOSTABLE BRIGHT SILVER
COATINGS FOR PHOTOELECTRIC CATHODES.
[1963] [18p] AERDL T-1691.
Order from OTS, SLA, or ETC \$1.60 TT-63-23944

Trans. of *Zhurnal Tekhnicheskoi Fiziki* (USSR)
[1938] v. 8, no. 13/14, p. 1229-1234.

DESCRIPTORS: *Phototubes, Glass, Plating, *Silver
electrodes, *Cathodes (Electron tubes), Metal films,
*Metal coatings, *Silver plating, *Optical phenomena,
Light transmission, Reflection.

(Engineering--Electronic, TT, v. 11, no. 4)

TT-63-23944

- I. Goldbreich, Yu. V.
- II. AERDL T-1691
- III. Army Engineer Research
and Development Labs.,
Fort Belvoir, Va.
- IV. Scripta Technica, Inc.,
Washington, D. C.

Office of Technical Services

Photoeffect and Secondary Emission of Cathodes
Consisting of Alloys, by N. M. Gopshtein,
D. M. Khorosh.

Full translation.

RUSSIAN, no per, Zhur Tekh Fiz, Vol VIII, No 24, 1938,
pp 2103-2106.

AEC Tr 1618

USSR
Scientific - Physics

Jul 53 CTS

4015

New Complex Photocathodes, by N. S. Khlebnikov, and
N. S. Zaitzev, 30 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1939, Vol IX, pp 44-64.

Sci Mus Lib No 52/3255

Scientific - Physics

27 December 1952

The Thermal Conductivity of Steam at High
Pressures and Temperatures, by ~~Maxim~~ N. D.
Vargaftik, D. I. Timrot, 15 pp. *J*

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 1, 1939,
PP 63-70.

Sci Tr Center
ET-1448

18,921

Scientific - Physics

Stability and the Critical Speed Region for
Rapidly Rotating Rotors with Friction, by
P. L. Kapitsa,
USSR, per, Zhurnal Tekh. Fiz., Vol 1A,
No 2, 1939, pp 124-147.
NLL 9022.00 (4179)

Sci-Phys
Apr 67

524,178

Electronic Conductivity in Dielectrics at
High Fields, by P. P. Vol'kenshtein, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 3, 1939,
pp 171-187.

Sci Tr Center
RT- 1447

Scientific - ~~Engineering~~ Physics

18,922

Physical Basis of Separating Helium and
Nitrogen, by R. M. Ruemann, A. Fedoritenko,
17pp.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol 7, No 4, 1937, pp 335-342.
CFSTI TT-64-71206.

322,380

Sci - Chemistry
Mar 67

Propagation of Oscillations in a Two-Part
System of a Liquid and Its Vapor, Part I,
by A. Viglin,
RUSSIAN, per, Zh. Tekh. Fiz., Vol VIII, No 3,
1938, pp 275-285.
NASA TT F-10,943

Sci-Pys
Jul 67

332,901

The Activation of Antimony-Caesium photocathodes
with Sulphur and Selenium, by V. V. Zhukov, 10 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1939, Vol 9, No 5, pp 376-
380.

Sci Mus Lib No 52/3280

Scientific - Physics

27 December 1952

Zh Tek Fiz Vol 9, pp 287-94, 1939

Residual stresses in quenched test pieces of ~~rod~~
cylindrical shape, by A. S. Kompaneets

AEC/BNL/Tr 120

Tsukhanova, O. A.
VERBRANDING VAN DE WANDEN VAN EEN KOOL-
STOFKANAAL BIJ GEDWONGEN ZUURSTOFDIFFU-
SIE (Combustion of the Walls of a Carbon Channel
under Conditions of a Forced Diffusion of Oxygen)
tr. by G. J. M. Fritschy. 16p. 10 refs. MTWL: 42.
(text in Dutch).
Order from OTS or ETC \$1.85 61-17660

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939,
v. 9, p. 295-304.

DESCRIPTORS: *Carbon, *Combustion, Oxygen,
Pipes, Aerodynamics, Gases.

61-17660

I. Tsukhanova, O. A.
II. MTWL-42
III. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Panchenkov, G. M. and Konstantinova, K. V.
FRICTION BETWEEN METALS IN THE PRESENCE
OF A LUBRICANT. [1961] 8p 23refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16810

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939,
v. 9, p. 537-544.

DESCRIPTORS: *Friction, Metals, *Lubricants,
Lubrication, Surface-active substances, Surface
properties, Oils,

(Materials--Lubricants, TT, v. 11, no. 4)

TT-61-16810

I. Panchenkov, G. M.
II. Konstantinova, K. V.

Office of Technical Services

A Piezo-Quarz Dynamometer for Measuring Impact
Stresses, by N. A. Andreyevskiy, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, 1939,
pp 680-686.

ARC SCL T-317

Sci - Phys
14 Oct 60

128,914

Heat Transfer and Hydraulic Flow Resistance for
Streams of High Velocity, by V. L. Lel'chuk, 20 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, No 9, 1939,
pp 808-818.

Sci Trans Center RT-532

Scientific - ~~Engineering~~
CIS/DEX

Aeronautics

10,987

Secondary Electron Emission of Tungsten, Copper and
Iron at High Tension, by V. A. Antonov, *VI. Roshin*

RUSSIAN, per, Zhur Tekh Fiz, Vol IX, 1939, pp 870-875.

AEC Tr

(D. Brookhaven)

Scientific - Min/Metals

12.793

Davidenkov, N. N. and Shevardin, Ye. M.
THE STUDY OF RESIDUAL STRESSES DUE TO
BENDING. [1961] [15]p. 4 refs.
Order from OTS or SLA \$1.60

61-10932

Trans. of [Zhurnal Tekhnicheskoy Fiziki] (USSR) 1939,
v. 9, no. 12. p. 1112-1124.

DESCRIPTORS: *Steel, *Stresses, Deformation,
*Chromium alloys, *Molybdenum alloys.

(Unannounced)

61-10932

I. Davidenkov, N. N.
II. Shevardin, Ye. M.

184005

Office of Technical Services

Certain Applications of Cascade of Secondary
Electron Photocells for Photometry at Low
Intensities of Light, by B. P. Rodionov, 13 pp.

Full tr

RUSSIAN, no per, Zhur Tekh Fiz, Vol IX, No 13,
Moscow, 1939, pp 1180-1187.

ATTC F-TS-8711/III

Scientific - ~~Electronics~~

Physics
37,995

CTB/Dax
Aug 56

~~Excerpt~~ Vol 9, page 1199-212 (1939)

Zh Tekh Fiz

Detecting Frequency Modulated Oscillations.
by V. N. Milshtein

AEC Trans (avail. Brookhaven)

The Antimony-Cesium Photocathode, by ~~XXXXX~~
S. S. Prilezhaev, 24 pp.

Full translation.

RUSSIAN, Zhur Tekh Fiz, 1939, ~~XXXXXXXX~~ Vol. IX, No 16,
pp 1439-1454.

Sci Mus Lib No 52/3272

Scientific - Chemistry

27 December 1952

Tribo-Electric Dust Charges, by N. H. Toonitakiy,
M. V. Tikhomirov, I. V. Petryanov.

RUSSIAN, no per, Zhur Tekh Fiz, Vol X, No 20,
1939, pp 1723-1726.

S.M.R.E.
Min of Fuel & Power
Tr 3783, OT/1190

Scientific - Electricity, Physics
CIS 70/Jul 55

25,255

Sound Absorption by Means of Two Resonant
Systems, by B. C. Nesterov.
RUSSIAN, per, Zhurnal Tekh Fiz, Vol 9, No 19,
1939, pp 1727-1739.
NLL Ref: 3774.5 (1860)

Sci-E, ec
Nov 69

395,664

On the Possibility Of Using an Evaporation Method
For Determining the Coefficient Of Intermetallic
Diffusion by A.M. Zagrubskii.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol IX,
No 19, 1939, pp 1767-1770.

CSIRO

Oct. 62

Likhter, A. I. and Tikhonovich, N. P.
VAPOR-LIQUID EQUILIBRIUM IN THE SYSTEM
ETHYLENE-METHANE-HYDROGEN, I. [1961] 9p
9 refs
Order from OTS, SLA, or ETC \$1.10 TT-61-16826

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1939,
v. 9, p. 1916-1922.

DESCRIPTORS: *Thermochemistry, *Liquefied gases,
Vapors, *Ethylene, *Methane, *Hydrogen, *Phase
studies

(Chemistry--Physical, TT, v. 11, no. 3)

TT-61-16826

I. Likhter, A. I.
H. Tikhonovich, N. P.

Office of Technical Services

Heat Loss and Evaporation of Droplets., by D.H.
Vyubor.

RUSSIAN, per, Zhur. Tekhn. Fiz., Vol. 8, 1939,
pp 1223-1231
GB/133/300

Sci -

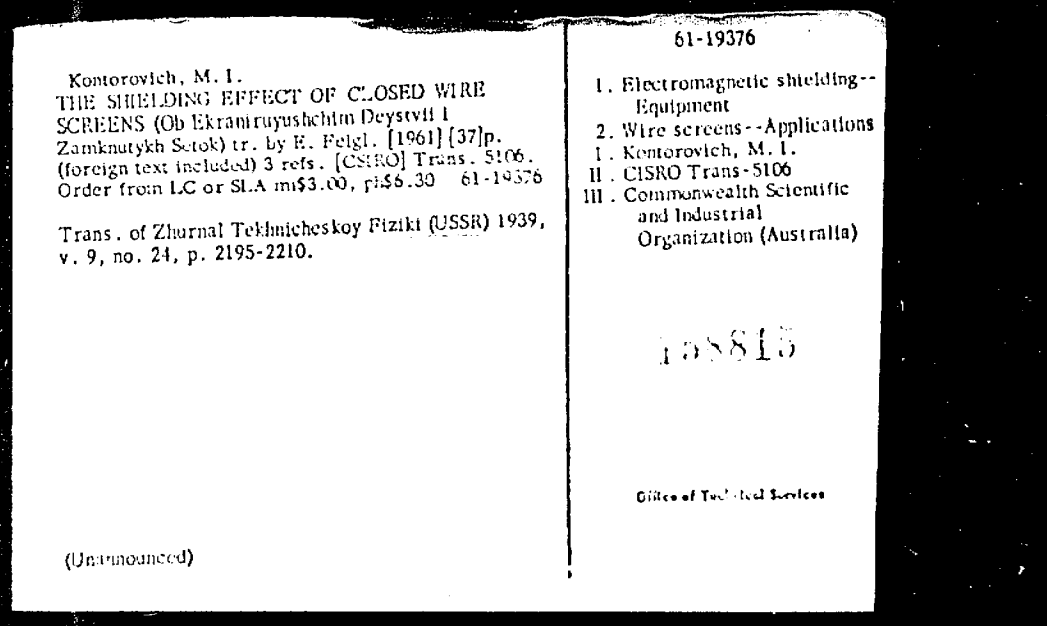
Chem. M. T.

334-610

Correlation Between the Conductivity and the
Emission Characteristics of Cesium Oxide Cathodes,
by P.Borziak.
RUSSIAN, per, Zhurnal Technicheskoi Fiziki, Vol.9,
No.22, pp.2032-2041, 1939.
AERDL-T-1840-66;AD-633 411
(CFSTI)

Chem/Eng
Aug 66

308,953



On Energy Expressions in Acoustics, by N. Andrejew,
33 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol II, No 4, 1940,
pp 305-312.

SLA Tr R-689

Sci Electronics

50,556

Aug 57

RUSSIAN, no per, Zhur Tekh Fiz, Vol IX, No 18, 1940,
pp 1677-1682.

*ATIC

Peculiarities of the Induction Heating of Steel, by
G. I. Dabat.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940.

AEC Tr

USSR

Scientific - Min/Metals

15,060

Zhurnal Tekhnicheskoi Fiziki, v.X, #3 ~~12~~

DC

P 177-198

High-voltage electrostatic Generators of ~~direct-current~~
voltage.

Gokhberg, B.M.

Proj 8314

ST-243

Copy to ST-10

Feb. 15, '51

(FDD 20639)

Electric Probe of Rochelle Salt, by B. V. Goralik, 14 pp.

RUSSIAN, NO PER, Zhur Tekh Fiz, Vol X, No 5, Moscow,
May 1940, pp 369-375.

CIA/FDD/U-5774

USSR

Sci - Physics

13,140

Apr 54 CTS

Hertzücken, S. and Feingold, M.
 THE CALCULATION OF THE DIFFUSION COEFFICIENT IN MIXTURES OF POWDERED SUBSTANCES
 June 47 [7]p. 8 refs. BISI-308; [DSIR L.L.U.]M. 2770.
 Order from OCS or SLA \$1.10 61-23307

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR) 1940,
 v. 10, p. 574-577

DESCRIPTORS: *Nickel, Diffusion, Mathematical
 analysis, Copper, *Powders, *Powder metallurgy.

A formula for the calculation of the diffusion coefficient, deriving from the symmetrical disposition of grains in mixtures of powdered substances, is given. The calculation by means of this formula of the diffusion coefficient of nickel in copper in mixtures of powdered substances can be considered to be reliable. (Author)

(Metallurgy, TT, v. 6, no. 7)

61-23307

I. Hertzücken, S.
 II. Feingold, M.
 III. BISI-308
 IV. DSIR L.L.U. M. 2770
 V. British Iron and Steel
 Industry Translation
 Service

1 2 3 4 5 6 7 8 9 10 11 12

Office of Technical Services

Gerf, S. F. and Galkov, G. I.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES [I] [1961] 8p. 11 refs.
Order from OTS or SLA \$1.10

61-18004

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940,
v. 10, p. 725-732.

DESCRIPTORS: *Liquefied gases, Viscosity, Mixtures,
Temperature, Mathematical analysis, Propenes, Pro-
panes, Ethanes, Methanes, Nitrogen, Ethylenes.

Coefficients of viscosity were determined by the method
of Poiseuille for propene, propane, ethane and mixtures
of methane with nitrogen, methane with ethylene and
ethane with ethylene. The measurements were carried
out in the temperature interval from the triple point to
the temperature close to the boiling point of these sub-
stances under atmospheric pressure. The results re-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18004

1. Title: Poiseuille flow
I. Gerf, S. F.
II. Galkov, G. I.

ATK

185417

Office of Technical Services

Determination of the Diffusion Coefficient
of Metals by the Method of Vaporization
of Metals, by S. D. Gertsriken, et al.
RUSSIAN, per, Zhur. Tekhn. Fiz. Vol. 10
no. 10, 1940, pp. 786-794.
*CFSTI TT 70-57029

Sci/phys
Feb 70

Borovik, E., Matveev, A., and Panina, E.
HEAT CONDUCTIVITY OF LIQUID NITROGEN, CAR-
BON MONOXIDE, METHANE AND ETHYLENE
[1961] 4p. 7 refs.
Order from OTS or SLA \$1.10

61-18111

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940,
v. 10, no. 12, p. 988-998.

DESCRIPTORS: Ethylenes, Methanes, Carbon com-
pounds, Monoxides, *Heat transfer, *Liquefied gases,
Nitrogen.

The heat conductivity of liquid nitrogen and carbon mon-
oxide were determined within the temperature interval
of from -196 to -160°C ., of methane from -170 to
 -100°C . and of ethylene from -160 to 0°C . The heat
conductivity of all these substances was found to de-
crease in proportion to the rise of the temperature.
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18111

I. Borovik E.
II. Matveev, A.
III. Panina, E.

185423

Office of Technical Services

Shur, J.S.
THE HEAT TREATMENT IN A MAGNETIC FIELD OF
PERMANENT MAGNET ALLOYS OF HIGH COERCIVE
FORCE. 7 p. 6 refs. MTWL: 674.
Order from OTS or ETC \$1.55

61-17186

Trans. of Zhurnal Tekhnicheskof Fiziki (USSR), 1940,
v. 10, no. 9, p. 757-760.

DESCRIPTORS: *Magnetic alloys, Magnetic field,
*Heat treatment, Magnetic properties, Magnetic
materials.

61-17186

I. Shur, J.S.
II. MTWL-674
III. Stichting Moeitijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Thermal Conductivity of Water at High Temperatures,
by D. L. Timrot, N. B. Vargaftik.

RUSSIAN, no per, Zhur Tekh Fiz, Vol X, No 13,
1940, pp 1063-1073.

Assoc Tech Sv
Tr \$15.95
RJ-585

52,237

Sci - Physics
Sep 57

Likhter, A. I. and Tikhonovich, N. P.
VAPOR-LIQUID EQUILIBRIUM IN THE SYSTEM
ETHYLENE-METHANE-HYDROGEN. II. III. [sic].
[1961] 7p. 9 refs. 61-16825
Order from OTS or SLA \$1.10

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940,
v. 10, p. 1201-1206.

DESCRIPTORS: *Ethylens, *Methanes, *Hydrogen,
*Liquids, *Gases, Solubility, Thermodynamics.

Liquid-vapor equilibrium diagrams were determined by
the static method for the binary system methane-hy-
drogen at temperatures of -115, -105, -95 and -85°C
and pressures up to 80 atm. By the same method liquid-
vapor equilibrium diagrams were determined for the
ternary system ethylene-methane-hydrogen under pres-
sures of 30, 40 and 80 atm. at temperatures of from
-115 to -85°C. (Author)
(Chemistry--Physical, TT, v. 6, no. 10)

61-16825

I. Likhter, A. I.
II. Tikhonovich, N. P.

157696

Office of Technical Services

The Fundamental Causes of Escalator Noise in the
Moscow Subway, by V. S. Kazunskiy, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 15, 1940,
pp 1251-1255.

ATS

S&I

Aug 59

93, 690

The Spark-Over of Compressed Gases, by
A. S. Matveyev, F. F. Kharakhorin.
UNCLASSIFIED

RUSSIAN, no per, Zhur Tekh Fiz SSSR, Vol X,
No 12, 1940, pp 1021-1026.

Navy Tr 1207/NRL 521

Scientific Physics

25,711

The Generation of Powerful Oscillations With
a Magnetron in the Centimeter Band, by N. P.
Aleksyev, D. D. Malyarov, 13 pp.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol X, No 15, 1940, pp 1297-1300.

Sci Tr Center RT 3538
36,158

Physics

Jun 56 CTS

The Combustion of a Coal Particle in a Current of
Gas Flowing Past It by A. S. Predvoditelev

RUSSIAN, Zhur Tekh Fiz, Vol X, No 16, 1940, p-1311.

Sci Museum Lib No 50/3342 - London

Scientific

Zhur Tekh Fiz Vol 10, page 1324-30 (1940)

Heat Exchange at very low Prandtl Numbers.
by M. A. Stirikovich and I. E. Semenovker.

AEC Trans (avail. Brookhaven)

NLL 79.4574

Equations of Transport of Radiant Energy and
Similarity of Radiating Systems, by A. S. Nevaki,
19 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 18, 1940,
p 1502.

CIA/FDD X-4707

Sci - Phys

166, 450

Sep 61

Sulfide Rectifier, by Yu. A. Dunayev &
B. V. Kurchatov.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki SSSR,
Vol 10, No 22, 1940, pp 1857-1870.
*NASA TT F-11,450

Sci/Phys
Mar 68

Fatigue of Antimony-Cesium Photocathodes, by
N. S. Khlebnikov, P. A. Sinitsyn, 14 pp.

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22, 1940, pp 1913-1918. 9

SLA Tr R-717

Sci - Electricity

50,627

Aug 57

New Oxygen-Silver-Cesium Photocathodes
by N. S. Khlebnikov, P. A. Sinitsyn.
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CFSTI TT 6471451

Apr 67

323, ~~29~~100

The Burning of Ash-Bearing Coal, by L. A. Vulis.
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p 1959.

DSIN LLU W.1218

(loan)

Sci - Fuels
Feb 60

108,374

Method

The Model ~~RESEARCH~~ of Study of Electromagnetic
Fields in Systems of Induction Heating, by O. I.
Babat.

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AEC Tr

Scientific - Physics

15,055

V
(FDD 80345)

The Height Gain Factor and Phase Relations ⁱⁿ UHF
Fields, by S. A. Vvedenskiy, 14 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XI, No 1/2,
Moscow/Leningrad, Jan/Feb 1941, pp 37-43.

CIA/FDD/U-5957

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Scientific - Electronics, ultra-short waves

15,646

Ultrasonic Methods for Studying the Properties
of Hardened Steel and for Detecting Internal
Defects in Steel Parts, by S. Ya. Sokolov,

RUSSIAN, per, Zhur Tekh Fiz, Vol XX: XI,
No 1-2, 1941, pp 160-169.

23,163

Brutcher Tr No 3392
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Scientific - Min/Metals

Apr
~~May~~ 55 CTS

Levitskaya, E.P.
ÉTUDE DE L'ÉQUILIBRE LIQUIDE-VAPEUR DU SYSTÈME TERNAIRE: ÉTHANE-MÉTHANE-HYDROGÈNE (Issledovanie Ravnovesiya Zhidkost'-par Troinoi Sistemy: Etane-Metan-Vodorod) (Investigation of the Liquid-Vapor Equilibrium in the Ternary System Ethane-Methane-Hydrogen). 17p. (foreign text included)
9refs. CNRS-VI 801.
Order from OTS, ETC or CNRS \$0.80 TT-62-28588

Trans. in French of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, no. 7, p. 197-204.
Other translations are available in English from
ATS as RJ-306; from OTS or SLA \$1.10 as
TT-61-18036 and \$1.60 as TT-62-18807; and in Dutch
from OTS or ETC \$1.85 as TT-61-17751.

DESCRIPTORS: *Ethanes, *Methanes, *Hydrogen,
*Liquids, *Gases, Pyrolysis, Solubility, Temperature,
Pressure, Vapors, Phase studies, Thermodynamics.
(Chemistry- Physical, TT, v. 11, no. 8)

TT-62-28588

I. Levitskaya, E.P.
II. CNRS-VI 801
III. Centre National de la Recherche Scientifique, Paris

Office of Technical Services
European Translations Centre

<p>Kushnir, Yu. M. and Frumln, M. I. ENERGY DISTRIBUTION OF SECONDARY ELEC- TIONS AS A FUNCTION OF ANGLE OF EMISSION. [1960] 8p. 14 refs. Order from RIS \$4.00</p> <p style="text-align: right;">RIS E-642</p> <p>Trans. of Zhur[nal] Tekhnicheskoy Fiz[iki] (USSR) 1941, v. 11, no. 4, p. 317-322.</p> <p style="text-align: center; font-size: 2em;">143,131</p> <p>(Physics: Electronics, TT, v. 5, no. 1)</p>	<p style="text-align: center;">61-12045</p> <p>I. Secondary emission-- Energy 1. Kushnir, Yu. M. II. Frumln, M. I. III. RIS E-642 IV. Research Information Service, New York</p> <p style="text-align: center;">Office of Technical Services</p>
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61-18072

Strelkov, P. G. and Lin'kov, V. I.
STANDARDIZATION OF A RESISTANCE THERMOM-
ETER AT THE OXYGEN POINT. [1961] 13p. 12 refs.
Order from OTS or SLA \$1.60 61-18072

I. Strelkov, P. G.
II. Lin'kov, V. I.

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 367-377.

DESCRIPTORS: *Resistance thermometers, Thermom-
eters, Standardization, Oxygen, Determination.

(Physics--Thermodynamics, TT, v. 7, no. 9)

Office of Technical Services

Reduction of Carbon Dioxide in Carbon Channel, by
L. A. Vulis, L. A. Vitman, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XI, 1941, pp
509-518.

SLA R-2976

Sci

Jul 59

92,446

Galkov, G. I. and Gerf, S. P.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES, IL [1961] 4p. 6 refs.
Order from OTS or SLA \$1.10

61-18003

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 613-616.

DESCRIPTORS: *Liquefied gases, Viscosity, Mixtures,
Temperature, Mathematical analysis, Oxygen, Ethanes,
Propanes, Propenes, Nitrogen.

Coefficients of viscosity for liquid oxygen, ethane, pro-
pane, propane and mixtures of ethane with propene and
of oxygen with nitrogen were determined by the method
of Poiseuille. The measurements were carried out in
the interval of temperatures from the melting to the
boiling points. The results are reported as viscosity-
temperature and viscosity-composition curves.
(Author) (See also 61-18004)

61-18003

I. Title: Poiseuille flow
I. Galkov, G. I.
II. Gerf, S. P.

* ATIC

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(Physics--Thermodynamics,
TT, v. 6, no. 9)

Office of Technical Services

ZHURNAL TEKHNIЧЕСКОY FIZIKI Vol. XI No. 7 (Jul '41)
pp 617-8.

"A SCHEME FOR A HIGH-VOLTAGE ELECTROSTATIC GENERATOR WITH
A METAL GROUNDED AXIS" by Ioffe and Golberg.

PROJECT # 7788

ST- 243

TD 15-Jan '51

DATE: *Jan 18 1951*

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Gerf, S. F. and Galkov, G. I.
VISCOSITY OF LIQUEFIED PURE GASES AND THEIR
MIXTURES, III. [1961] 8p. 7 refs.
Order from OTS or SLA \$1.10

61-18002

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941,
v. 11, p. 801-808.

DESCRIPTORS *Liquefied gases, Viscosity, Mixtures,
Measurement, Ethanes, Carbon compounds, Monoxides,
Methanes, Ethylenes, Nitrogen.

Coefficients of viscosity for liquid ethane, carbon mon-
oxide, methane, ethylene and mixtures of methane with
nitrogen, methane with ethylene and carbon monoxide
with nitrogen were determined by a method involving the
use of a rotating cylinder. The measurements were
carried out within the temperature interval from the
boiling points to the critical temperatures and the re-
sults are represented as viscosity coefficient-tempera-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

61-18002

L. Gerf, S. F.
II. Galkov, G. I.

5415

Office of Technical Services

Zh Tekh Fiz Vol 11, page 842-53 (1941)

Investigation of Vibrations in Piezoelectric Quartz
Plates by the Method of Light Interference.
by M. L. Kotlyarevski and E. Ya. Pumper.

AEC Trans (avail. Brookhaven)

Mechanism of the Diffusion in the Cementation of
Iron and Nickel by Chemical Compounds, by M. G.
Okhov, L. S. Moroz, 22 pp.

RUSSIAN, per, Zhur Tekh Fiz, E Vol ^{XI}~~II~~, 1941,
pp 689-699.

SLA R-768

Sci - Minerals/Metals
Oct 57

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Stability of Salt Crystals in Respect of
Secondary Retention, by H. M. Vudman.

ISSUED, 1951, *Chem. Techn. Dig.*, Vol. 25, No. 12, 1951,
p. 1000-1001.

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Zhu Sekh Fiz. Vol 11 (11), 1941.

"About The Mechanism of Failure
of Metals"

Done in S. B. by ACSIL (Admiralty)

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See Index Aero, May 1950, p. 63

112 - 4170

Kharakhorin, F. F.
PHASE RELATIONSHIPS IN COMPRESSED GAS SYSTEMS. II. EQUILIBRIUM IN COEXISTING LIQUID AND VAPOR PHASES IN THE SYSTEM ETHANE-ETHYLENE. [1961] Sp. 3 refs.
Order from OTS or SLA \$1.10 61-18034

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1941, v. 11, p. 1133-1139.

DESCRIPTORS: *Ethanes, *Ethylenes, Liquids, Vapors, Phase studies, Chemical equilibrium, Determination.

Equilibrium compositions of the liquid and vapor phases in the binary system ethane-ethylene were determined by the circulation method for temperatures from 169.3°K to 273.15°K under pressures from 0.5 to 40 atm and p-x and T-x diagrams constructed. It was shown that the data for the liquid and vapor phases may (Chemistry--Physical, TT, v. 6, no. 9) (over)

61-18034

I. Kharakhorin, F. F.
II. Title: Equilibrium...

195421

Office of Technical Services