

IAN-OTN 9/49  
8154  
1424-25  
2476.1  
2-116 Dept. of Tech. Sci.  
SR-7 Messo

Heating of a Cylinder by Solar Radiation, by  
D. I. Boyarintsev.

RUSSIAN, per, Iz Ak Nauk, Otdel ~~ENK~~ Tekh Nauk,  
Vol X, 1949, pp 1469-1480. CIA 9004655

TIL No 4765

Sci - Geophysics

48,479

Increased Accuracy in Calculating the Coefficient  
of Heat Exchange Between a Gas and Particles in  
Suspension Obtained by the Thermal Boundary Layer  
Method by L. I. Kudryashev

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk, 11,  
1949, pp 1620-1625

Sci Museum Lib No 50/3272 - London

Scientific

*Also RAE Farnborough No. 368*

GUBERGRITS, M. Y.  
- ASLIB-GB114. Mixing of gases and combustion in  
the heating system of coke ovens. Izvest. Akad. Nauk  
SSSR, O.T.N., no.11, p.1626-1641, 1949.

Molecular State and Electrical Conductivity of  
Silicate Melts, by A. S. Kheinman,  
L. I. Rybakova.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk,  
No 11, 1949, pp 1685-1700.

NLL Ref: 9022.09 1963 (3082) (Loan)

Sci  
Feb 64

Production of nitrogen by coals, by I. I. Ettinger,  
p. 4.

USSR, per, Is Ak Nauk SSSR, Otdel Tekh Nauk, No 11,  
1959, pp 1719-1722

Sci Museum Lib No 51/2058 — London

*Dept of Science*

TN 7, E 57

No 169

SLA 60-19915

IAN, OTEN

#12

(1949)

Some Basic Problems in the Theory of  
Plasticity

A.A. Il'yushin

AEC J. # 314  
Brookhaven

157T82

The Problem of Strength in Machine Construction, by  
I. A. Odintsov, 48 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No  
12, Dec 1949, pp 1753 - 1787.

NACA N-3875

Sci - Engineering

Feb 52 CTS

unpubl rpt. available on loan only

BS



Study of Influence of Tube Diameter and Position  
Upon Hydraulic Resistance and Flow Structure of Gas-  
Liquid Mixtures, by S. I. Kosterin

RUSSIAN, per, Iz Ak Nauk BSSR, Otdel Tekh Nauk,  
No 12, 1949, pp 1824-1831.

Bratcher Tr 3085

*K-H 2728d*

Scientific - Chemistry  
CTS/DEX

Price \$7.90

*1053*

Kosterin, S.I.

ONDERZOEK NAAR DE INVLOED VAN DIAMETER EN STAND VAN EEN BUIS OP DE STROMINGSWEERSTAND EN HET STROMINGSBEELD VAN GAS-VLOEISTOFMENGELS (Investigation into the influence of the diameter and position of a pipe on the resistance and the figure of flow of gasliquid mixtures). 18 p. 9 refs. MTWL: 457. (Text in Dutch).  
Order from OTS or ETC \$1.85 61-17036

Trans. of Akademiya Nauk SSSR Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1949, no.12, p. 1824-1831.

DESCRIPTORS: \*Gas flow, \*Fluid flow, Aerodynamics, Hydrodynamics, \*Resistance, \*Pipes.

61-17036

- I. Kosterin, S.I.
- II. MTWL-457
- III. Stichting Moelijk Toegankelijke Wetenschappelijke Literatuur.

Office of Technical Services

On the Theory of Heat Exchange in Furnaces, by  
G. L. Polyak, S. W. Shorin, 32 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1949, p 1832. 9094344

CIA/FDD X-4775

Sci - Phys

NSF TT-E

175,624

Doc 61

63-18216

Sokolik, A. S., Voynov, A. N., and Sviridov, Yu. B.  
INFLUENCE OF CHEMICAL AND TURBULENCE  
FACTORS ON THE COMBUSTION PROCESS UNDER  
ENGINE OPERATING CONDITIONS. [1963] 5p  
Order from OTS or SLA \$1.10 63-18216

I. Sokolik, A. S.  
II. Voynov, A. N.  
III. Sviridov, Yu. B.

Partial trans. (conclusions) of Akad[emiya] Nauk  
SSSR. Otdel[enie] Tekhnicheskikh Nauk. Izvestiya,  
1969 [no. 12] p. 1848-1873.

DESCRIPTORS: \*Combustion, Combustion chambers,  
Thermodynamics, Combustion chamber gases,  
Ignition, Flames, \*Turbulence, Velocity.

(Physics--Thermodynamics, TT, v. 10, no. 10)

Office of Technical Services

I i  
Heat Transfer Across Spherical Surfaces in the  
Presence of Free Convection, by D. P. Boyaryntsev  
4 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Teikh Nauk, No 2,  
Feb 1950, pp 249-252 .

Sci Museum Lib No 51/2245 - London

Sci

249/252

Sci Museum Lib 51/2245

IAN, OTN. 2/50

7273.2

5876

Conf on Cont. of Sci Res. Act. in

Industrial Waste Water Purification

Anon

26 June '50

LUKASHEVICH-DUVANOVA, YU. T.

Izvestiya Akademii Nauk Sssr, Otd. Tekh. Nauk, Jan.  
1950, no. 1, pp. 126-131; 10 figures, 3 tables,  
3200 words.

Sulphides in Alloy Steels.

Brutcher Trans, Order No. 2536, \$5.60

IAN, OTM No 1, 1950 pp 29-40

Reported in Process (awaiting  
assignment) in 1 Feb 1951 IB  
Status Report. Doc F-4700  
A & C Sec, Tech Br, ID, G-2

Title "Transportation and Soviet Science"  
V.V. ZVANKOV



The Electrical Resistance of Shales and  
Coals During Heating, by A. A. Agroskin,  
I. G. Petrenko.

RUSSIAN, per, Iz Ak Nauk SSSR Otdelenie  
Tekhnicheskikh Nauk, No 1, 1950, pp 89-100.

ATS-05R78R

Apr 67

523,138

**GLEMBOTSKII, V.A.**

**IZ. AK. NAUK, SSSR, Otd. Tekh. Nauk, #2, 1950, pp 253-8**

**Significance of Mechanism and Rate of Collecting for  
Intensification of the Flotation Process**

**Brutcher Trans. 2542, \$4.95**

GUDYSOV, N. I.  
KAZANOVA, Y. M.

Izvestiya akademii nauk SSSR, Otd. Tekh. Nauk, 1950,  
No. 3, pp. 386-393; 10 figures, 2 tables, 2900 words.

Influence of Boron upon the Kinetics of the Austenite  
Transformation of Steel.

Butcher Trans. Order No. 2617. \$4.90.

Iz Ak Nauk SSSR, No. 5 (May '50)  
Ot Tekh Nauk pp 641-645

"Sci of Ground Mech. & Foundations:  
Pres. State & Prob. of Development"  
N. M. Gershevanov  
(deceased)

{ Proj  
# 6754

{ Reg.  
CD. 7/56.1

Date:  
SR { 18 Oct 1950

Iz Ak Nauk SSSR Ot Tekh Nauk  
No. 5 (May 1950) pp 646-676

"Invest. the Freq.-Reg. Sys. of the  
A-C Comput. Table ENIN"

P. I. Zubkov

Proj # 6756

Date: { ST-154

SR { OCT-19-1950

IAN-OTN No. 5 (May '50)  
pp 668-681

"Brightness & Lightness in the  
Light of the Phy. Theo. of the Visual  
Process in the Retina" S.O. Mayzel'

Proj #6766

CD-7025.4

Date:

SR { DEC ? 1950

Iz Ak Nauk SSSR, Ot Tekh Nauk  
No. 5 (1950) pp 682-694

"Phen. of Efferv. Ejection in Heavy Lig.  
Fuels Burn. from a Free Surf."  
G.N. Khudyakov

Proj # 6807

CD-7025.4

SR { Date: OCT 18 1950

Turbulent Transfer in Process of Heat Exchange  
Diffusion and Chemical Processes, by S. A.  
Gol'denberg, 6 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 5,  
1950, pp 689-94.

Sci Museum Lib No 51/0465 - London

OTS 61-17302

Sci - Chemistry

*Proj 6768 ?*



ST-13

Mixing of Gas Currents in the Heating Channels of  
Coke Ovens, by M. Y. Gubergrits.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel ~~XXI~~ Tekh Nauk  
No 5, 1950, pp 695-701.

ASLIB-CB114

Sci  
Aug 58

71,928

Iz Ak Nauk SSSR, Otd Tekhn Nauk,  
No 5 (May 1950), P.781.

Report of a New Publication  
"Works of the Petroleum Institute"

Proj 6800

{ Reg. No.  
{ ST-24

Date:  
SR { OCT 19 1950

Iz Ak Nauk, Otd Tekh Nauk, No 5, May 50,  
pp 792-795

"Chronicle: Conference on Problems of Construction of Water-Well Filters."

Acad L. D. Shevyakov

Proj # 6843

7729

SR 18 Oct 1950

IAN-OTN No 5 (May '50) pp 795-798

"Chairman: 1949 Report of the  
Commission on Administration of  
M.A. Shostakov, Scholar"

6850

(D-7727)

100;  
OCT 19 1950

IZ AK NAUK, OT DEL TEKH NAUK  
No 6 (Jun'50)

MINING MACHINES FOR EXTRACTING MINERALS  
FROM THEIR BEDS

A. M. Terpigorev

Proj# 7257

ST- 24

DATE: \_\_\_\_\_

Development of Electric Discharges Across Long  
Gaps, by V. S. Komelkov, 16 pp.

RUSSIAN, per, Izvest Akad Nauk SSSR Otdel Tekh Nauk,  
No 6, 1950, pp 651-65.

ABC Tr 2572  
~~AF 664067 (ADDITIONAL)~~  
~~CIA C 37508~~

Sci - Electric  
Nov 56    CBS

*Physics*

*40, 441*

Zernov, D. V.

MECANISME DE LA PERFORATION ELECTRIQUE  
DES DIELECTRIQUES SOLIDES (Mechanism of the  
Electric Breakdown of Solid Dielectrics). 12p. 14 refs.  
Order from OTS, ETC or CNRS \$0.80 62-28091

Trans. in French of Akademiya Nauk SSSR. Otdelenie  
Tekhnicheskikh Nauk. [Izvestiya] 1950, no. 6,  
p. 866-872.

DESCRIPTORS: \*Dielectric films, \*Transients, Solids,  
Gases, Theory, Ionization, Shock, Electrical corona.

(Physics--Solid State, TT, v. 10, no. 8)

62-28091

I. Zernov, D. V.  
II. Centre National de la  
Recherche Scientifique,  
Paris (France)

Office of Technical Services

Heating Efficiency in Boiler Furnaces, by P. K.  
Konakov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 6, 1950, p 888.

Navy 2052/T-78

Sci - Engr  
Mar 59

83,129



Izvestiya Akademii Nauk, SSSR, Otdeleniye Tekhnicheskikh  
Nauk

No 6, 1950, pp 901-913

Some Measures for Increasing the Endurance of Open Hearth  
Furnaces and Improving their Utilization

author: P. O. Budnikov, et al

Project 11750, ST-288 (a), SR-28 Apr 52

Discontinuous Flow about Obstacles in the Form  
of Arcs of Curves of the Second Degree, by B. V.  
Malinin, UNCLASSIFIED

RUSSIA, per, Izv. Akad. Nauk, Otd. Tekh. Nauk,  
No 7, 1950, pp 986-984.

A.R.E.  
9  
OT/803

Scientific - Physics

15,505

IAN (OTN) No. 7, 1950 pp. 985-94

"Investig. the initial phase of a  
Discharge for Very small gaps"  
I.S. Stekol'nikov

Proj. 7491

6328.4

DEC 12 1950

The Role of Radiant Energy in Processes of Combustion, by S. N. Shorin, 21 pp.

RUSSIAN, per, Iz Akad Nauk SSSR, Otdel Tekh Nauk,  
No 7, 1950, pp 995-1015.

Sci Mus~~um~~ Lib No 51/2065 - London

Sci -

*Project 8687*

Shrinkage During Coking, by P. F. Volodin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, 1950, pp 1024-1033.

Dept of Int  
US Bur of Mines  
Central Exper Sta  
Pitts., Pa. Tr 228

Sci - Engr

*NLL 11,3867*

Jun 59

*89,909*

Oxidation as a Factor in Spontaneous Combustion of  
Coals, by G. L. Orleanskaya.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 7, 1950, pp 1071-1079.

United Kingdom Scientific Mission

SLA

54,443

Sci - Chemistry, fuels  
Oct 57

Poyarkov, S.G.  
AÉRODYNAMIQUE DES MIROIRS PARABOLIQUES  
ROTATIFS, ENVISAGÉE DU POINT DE VUE CAL-  
CUL DE LA RÉSISTANCE DES STATIONS D'ÉNERGIE  
SOLAIRE (Aerodynamics of Rotating Parabolic Mirrors  
with Intent to Calculate the Resistance of Solar Energy  
Stations). 22p. CNRS-XV 50.  
Order from OIS, ETC or CNRS \$2.60 TT-62-28195

Trans. in French of ~~Academiya Nauk SSSR, Otdelenie  
Tekhnicheskikh Nauk, Izvestiya~~, 1960, no. 8,  
p. 1112-1121.

DESCRIPTORS: \*Curved mirrors, Parabolic bodies,  
\*Aerodynamics, Solar energy, Wind, Pressure,  
Deformation.

(Astronomy--Astrophysics, TT, v. 11, no. 8)

TT-62-28195

I. Poyarkov, S.G.  
II. CNRS-XV 50  
III. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

Turbulent Heterogeneous Combustion, by S. A.  
Goldenberg, 19 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 8,  
1950, pp 1154-1164.

Sci Museum Lib No 51/0568 - London

Sci -



Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh  
Nauk

No 8, 1950, pp 1183-1188

Nature of the Deterioration Mechanism of High-Alloy  
Steels During Swaging

11751

ST-288

SR 1 May 52

The Effect of Moisture on the Sorption of Methane by  
Coal, by I. L. Ettinger.

RUSSIAN, per, Izvestiya AN SSSR, Otd Tekh Nauk., No 8,  
1950, pp 1198-1203.

\*NTIS TT 72-53017

Mar 72

Ignition Temperature of Coals as an Index to  
Their Liability to Spontaneous Combustion, by  
V. S. Veselovskiy and E. A. Terpogoseva, 6 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 3, 1950, pp 1204-1211

[The figures are only in the Russian original  
attached.]

Sci Museum No 51/2839

Scientific

OTS TT-62-26395 (RUSSIAN to FRENCH)

(OTAN)  
### Ivz Ak Nauk No. 9 (Sep'50) p 1433.

Proj # 7572

ST- 24

"Tables of Contents of Two 1950 Issues of the Periodical : Avtomatika i Telemekhanika"

date: DEC 23 1950

WAK

IZVESTIYA AKADEMII NAUK . OTDELENIYE TEKH NAUK  
No. 9 (Sept 1950). pp 1433-1440.

Proj 7584 ST-~~84~~<sup>176</sup>

"A Discussion of the Problems of Soviet Science in the  
Field of Strength and Plasticity of Metals"

DATE: JAN 4 1951

IAN-SSSR OTN No. 10 (1950)

PP1443-9

Proj # 8280

ST-256

"Movement of Gases Through Sand and  
Humus" by S. V. Kalinin

MAR 14 1951

of Date: \_\_\_\_\_

UK  
12 Feb 51

*elz ak Nauk SSSR, Otdel  
Tikh Nauk, No 11, 1950.*

*XST-1441*

Applications of the Theory of Effective Loads to the  
Calculation of Dynamically Loaded Bearings, by A. K.  
Dyachkov, 30 pp. UNCLASSIFIED

Full translation.

RUSSIAN, mo per, Iz Ak Nauk SSSR Otdel Tekh Nauk,  
No 11, USSR, 1950, pp 1615-1644.

Navy Tr 701/BuShips 500

Scientific - Engineering, bearings

Jan 53 CTS/DEX



62-10638

Khrushchov, M. M. and Berkovich, E. S.  
EXPERIENCE USING AN ELECTRON MICROSCOPE  
TO MEASURE PARTICULARLY SMALL IMPRES-  
SIONS OBTAINED DURING MICROHARDNESS TEST-  
ING. 11 Oct 61 [5]p. 1 ref.  
Order from OTS or SLA \$1.10 62-10638

I. Khrushchov, M. M.  
II. Berkovich, E. S.

Trans. of A[kademiya] N[auk S]SSR. Otd[elenie] Tekh-  
[nicheskikh] Nauk. Izv[estiya] 1950, no. 11, p. 1645-  
1647.

DESCRIPTORS: \*Electron microscopy, Measurement,  
\*Hardness, \*Microanalysis, Industrial diamonds,  
Photographs, Ruby.

The possibility is clarified of measuring the size of  
impressions obtained during hardness testing by means  
of imprinting by a diamond pyramid by using photo-  
graphs made from a replica on an electron microscope  
(Earth Sciences--Mineralogy, TT, v. 8, no. 8) (over)

Office of Technical Services

An Experimental Application of the Electron Microscope  
for the Measurement of Extra Small Indentations Ob-  
tained during Micro-Hardness Tests, by M. N. Khrushchav,  
J. S. Berkovich

RUSSIAN, Izv. Akad. Nauk, Otd. Tekn. Nauk, (11),  
1647-1648, 1950.

Associated Electrical Industries, LTD  
Tr No T/432 OF/154

Scientific - Physics

An Instance of the Application of the Limit of  
D-Separation for the Evaluation of the Quality  
of the System of Automatic Regulation, by M. V.  
Meyerov, 16 pp.

RUSSIAN, per, Iz Ak Nauk BSSR, Otdel Tekh Nauk,  
No 12, 1950, pp 1784-1794.

SLA 60-23942

Sci

Apr 61

146,209

POPOV, I. A.  
STARK, B. V.

Izvestiya Akademii Nauk SSSR, Otd. Tekh. Nauk,  
1950, No. 12, pp. 1806-1814; 6 figures, 3400  
words.

Influence of Calcium Oxide Additions upon Behavior  
of Manganese and Silicon in Acid Steel-making  
Process.

Butcher Trans., Order No. 2686, \$8.40

Mechanism of the Oxidation of Cadmium Sulfide, by  
D. M. Chizhikov, G. S. Frenta, B. Ya. Tratskevitskaya,  
13 p.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
1950, No 12, pp 1815-1826.

MDF C-116

Sci  
Apr 60  
Vol III, No 3

112,105

61-13599

Plaksin, I. N.  
EINWIRKUNG VON GASSEN UND REAGENZIEN AUF  
DIE MINERALIEN IM FLOTATIONSPROZESS  
(Vozdeystviye Razov i Reagentov na Mineraly vo  
Flotatsionnykh Protssessakh). [1961] [20]p. 29 refs.  
[DSIR LLU] M 2102.

Order from OTS or SLA \$1.60 61-13599

Trans. in German of A[kademiya]N[auk] SSSR.  
Ord[eleniye] Tekhn[icheskikh] Nauk. Izv[estiya] 1950,  
no. 12, p. 1827-1843 (pub. in Sowjetwissenschaft.  
Naturwissenschaftliche [Beiträge] (West Germany) 1951,  
v. 4, no. 1.

DESCRIPTORS: \*Gases, \*Reagents, \*Minerals,  
\*Flotation.

(Chemistry--Physical, TT. v. 6, no. 3)

I. Plaksin, I. N.  
II. DSIR LLU M. 2102

175201

Office of Technical Services

The Theory of Corona with DC Voltage, Part III,  
by V. I. Popkov, S. I. Ryabaya.  
RUSSIAN, per, Izv. AN SSSR OTN, No 1, 1951,  
pp 29-38.  
NLL Ref: 8732B    1966    (1207)

Sci-Elec  
Aug 66

308,509

The Solution of Some Heat Engineering Problems  
With Electric Models, by S. S. Vyalov  
and L. G. Kogan, 15 pp.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, Vol 1, 1951, pp 39-52.

Sci Museum No 51/2900



The Dependence of Heat Emission in Pipes on  
the Direction of Heat Flow and Natural Convec-  
tion, by Y. Y. Alad'ev, M. A. Kykheev and  
O. S. Fedunskyi, 15 pp  
RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Vol 1, 1951, pp 53-67.

Sci Museum No 51/2949

CFSTI IT 64-23529

Scientific

*On Loan*

Vanadium in Acid Steel-Making Process and Deoxidizing  
Power of Vanadium, by I. A. Popov, B. V. Stark.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Tekh Khim,  
No 2, 1951, pp 261-266.

Brutcher No 2843-B  
\$3.90

Sci - Min/metals

40,690

Use of the Luminescence Method for Characterizing  
the Properties of Coals, by I. I. Amosov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 3, 1951, pp 341-349.

Dept of Interior  
TP325 A55

Sci - Fuels

*207, 264*

Aug 62

The Application of the Bacteridal Effect of  
Ultraviolet Radiation to Purification of Drinking  
Water, by V. F. Sokolov.

RUSSIAN, per, Izv. Akad. Nauk SSSR, Otd. Tekh.  
Nauk, 1951, pp 360-368. P911143766

AEC DNL-tr-95

Sci/B&E  
Jan 67

516,210

Heat Exchange by Radiation in the Presence of an  
Absorbing Medium, by S. N. Shorin, 6 pp.

*Udel Tekh Nauk*  
RUSSIAN, per, Iz Ak Nauk SSSR, No 3, 1951, pp 389-406.

Engs Digest, Vol XII, No 10,  
Oct 1951

*Navy 2044/T-67*

Scientific - Engineering  
CTS/DEX

ALSO CIA/FDD/X-1114

*5917*

An Investigation of Circulation in Steam-Generating  
Tubes at High Steam Pressure, by M. A. Styrikovich,  
and G. E. Kholodovskii.

Full translation.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Nauk, No 4,  
1951, pp 506-528.

AEC Tr 1433

SSSR

Scientific - Engineering, physics, tubes, steam  
pressure

Nov 50 000/000

Kutateladze, S. S.  
 HYDRODYNAMIC THEORY OF THE CHANGE OF  
 BOILING REGIME OF A LIQUID WITH FREE CON-  
 VECTION (Gidrodinamicheskaya Teoriya Izmeneniya  
 Rezhima Kipeniya Zhidkosti pri Svobodnoi Konveksii).  
 [1964] 15p 10refs  
 Order from OTS, SLA, or ETC \$1.60 TT-64-16013

Trans. of Akademiya Nauk SSSR, Otdelenie Tekhnicheskikh Nauk, Izvestiya, 1951, no. 4, p. 529-536.  
 Another trans. is available from SLA as RT-1870.

(Physics--Thermodynamics, TT, v. 11, no. 11)

TT-64-16013

I. Kutateladze, S. S.  
 II. RT-1870

SLA R 2412

AEC 1424

Sci. Tech. 1850/0355

Office of Technical Services

L.I. Ginsburg  
The use of scale models for forced ventilation  
with heat loss in enclosed spaces, 18 pp  
RUSSIAN per, Izvestiya Akademii Nauk SSSR, Otdelenie  
tekhnicheskikh nauk, 1951, No 4, pp 537 - 549  
Sci Museum Lib no 52/0204



On the Critical Heat Load During Boiling of Liquids  
in Volume, by M. A. ~~Styrikovich~~<sup>y</sup>, G. M. Polyakov,  
11 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Tekh Nauk, No 5,  
1951, pp 652-656.

ATIC F-TS-9359/III

Sci - Phys

57,857

Jan 58

N.H.E. - 8713

Investigation of the Process of Turbulent  
Combustion Taking Into Account Secondary  
Reactions, by S. A. Gol'denbergh, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, No 5, 1951, pp 657-666.

R.A.E. Farnborough Tr 577  
Sci Mus Lib No 56/2440

Sci - Physics

42,840

VERESHCHAGIN, I. P., FEDORIN, I. K.,  
RUBINSHTEIN, A. M. and KUBENOV, I. U.  
ATS RJ 129. Effect of very high pressures on the  
catalytic activity of aluminum oxide. Izvest. Akad.  
Nauk SSSR, Otdel. Khim. Nauk, no. 6, p. 809-818,  
1951. (10p.)

On Methods *EX* for the Linearization of Non-Linear  
Equations of the Type of Thermal Conductivity  
Equations, by I. Z. Charnii, 15 pp.

Full translation.

RUSSIAN, Iz Ak Nauk SSSR, Otdel Tekh Nauk, 1951,  
No 6, pp 829-838.

OTA 63-13021

OTS 61-17288

Sci Mus Lib No 52/3245

Also T/482, OT348

Index Aeronautics  
Oct 1952.

Scientific -

27 December 1952

Investigation of Some Physical Properties of  
Alloys in the System Iron-Nickel-Tantalum by  
K. A. Osipov.

RUSSIAN, Iz Ak Nauk SSSR, Otd. Tekh. Nauk, 1951,  
No 6, pp 848-851.

Brutcher Tech Tr No 2859

On the Temperature Field of a Liquid Burning From a  
Free Surface, and on the Flame Over It, by G. H.  
Khudiyakov, 18 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 7,  
1951, pp 1015-1024.

SLA 59-15131

Sci - Fuels  
Sep 59  
Vol 2, No 2

98,004

i

Turbulent, Mixed Combustion in the High-Temperature Range, by S. A. Goldenberg, 12 pp.

RUSSIAN, no per, Iz Ak Nauk, SSSR, Otdel Tekh Nauk, No 7, Jul 1951, pp 1025-1030.

117

~~Scientific - Engineering, combustion, high-temperature, turbulent~~

~~Scientific - Engineering, combustion, high-temperature, turbulent~~

CIA/FDD/X-748

Scientific - Engineering, combustion, high-temperature, turbulent

The Initial Stage of Oxidation in Hard Coal, by  
V. S. Veselovskiy, G. L. Orleyanskaya, 8 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Tekh Nauk,  
No 7, 1951, pp ~~1041-1049~~.

Sci Tr Center RT-2176

Scientific - Chemistry  
Apr 55 CTS

22,803



On the Velocity of Rise and Hydraulic Resistance of  
Gas Bubbles in Liquids, by B. K. Korlov, M. A.  
Mologin, 19 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
1951, pp 1188-1197.

AEC Tr 3274

Sci - Phys

Sep 58

73, 758

Two-Directional Compaction of Powdered Substances,  
by I. A. Keskovich.

RUSSIAN, Iz Ak Nauk SSSR, OTM, 1951, No 8, pp  
1230-1233.

Brutcher Tech Tr 2853

Problem of the Voltage Step Above 220-kv for Long-Distance Transmission of Large Blocks of Power, by M. A. Basov, 30 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 9, 1951, pp 1265-1293.

~~XXXXXXXXXXXXXXXXXXXX-8696~~  
XXXXXXXXXXXX

LIA/FDL/X-749

Scientific - Electricity, hydroelectric plants, transmission, voltage, power

Kinetics of Regeneration of Silica-Alumina Catalysts.  
Nature of the Process of Oxidation of "Coke" on  
Silica-Alumina Catalysts, by G. M. Panchenkov and  
N. V. Golovanov.

Full translation.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekhn Nauk,  
No 10, 1951, pp 1513-1521.

Assoc Tech Sv Tr RJ-97

Scientific - Chemistry

Mar 53 CTS

\$14.75 (\$1.95)

Experimental Determination of Local and Average  
Coefficients of Heat Transfer During Turbulent  
Flow of Liquids in Tubes, by I. T. Alad'ev.

Full translation.

RUSSIAN, no per, Iz A: Nauk SSSR, Otdel Tekh Nauk,  
No 11, USSR, 1951, pp 1669-1681.

AEC Tr 1493

Scientific - Physics, coefficients heat transfer,  
liquids

*Revised report 4874 NACA 1956*

Diffusion of Elements in Molten Iron, by Stark,  
Tchelischev, Kazatshkov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 11.  
1951, pp 1689.      CIA 9005585

Sci - Min/Met

Jun 57                      48,221

On the Fundamental Concepts of the Theory of Phase Transformations in Solids, by V. I. Arkharev

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 11, 1951, pp ~~XXXX~~ 1744-1751.

5

Brutcher Tr 2851

Scientific - Minerals/Metals  
CTS/DEX

*Price 8 40*

*5911*

Current Asymmetry in A-C Arcs Between Electrodes of  
Dissimilar Current-Conducting Materials, by G. M.  
Tikhodeyev.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1951, pp 1777-1785.

HB 5176

Sci

Sep 61

*170,091*



61-25406

Yurov, S. G. and Khazanov, V. S.  
THE EFFECT OF TEMPERATURE ON THE  
SPECTRAL TRANSMISSION OF COLOURED GLASS  
(Vliyanie Temperatury na Spektral'noe Propuskanie  
Tsvetnogo Stekla) tr. by G. Belkov. 1961, 14p. 4 refs.  
NRCC Technical Trans. 965.  
Order from NRCC \$1.00 NRCC C-3721

Trans. of Akad[emiya] Nauk SSSR. Otdel[enie]  
Tekh[nicheskikh] Nauk. Izvest[iya] 1951, no. 12,  
p. 1792-1800.

DESCRIPTORS: Temperature, Light transmission,  
\*Spectrographic data, \*Glass, \*Colors, Optical filters.

(Materials--Ceramics, TT, v. 7, no. 9)

- I. Yurov, S. G.
- II. Khazanov, V. S.
- III. NRCC TT-965
- IV. NRCC C-3721
- V. National Research Council  
of Canada

Office of Technical Services

Combustion of a Carbon Particle Moving  
in a Gas Flow, by Z. S. Leont'eva.  
RUSSIAN, per, Izv Ak Nauk SSSR OTN,  
No 12, 1951, pp 1801-1811.  
NASA TT F-10,000

Sci-Fuels  
Apr 66

298,665

(FDD 21065)

Celebration of the 80th Anniversary of Member of the  
Academy G. M. Krzhizhanovskiy, 1 p.

RUSSIAN, no. par., Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 2, Moscow, Feb 1952, p 326.

CIA/FDD U-5928

1  
USSR

Scientific - Engineering, power

15,639

Heat Transfer in Boiler Furnaces, by P. K.  
Konakov. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 3, 1952, pp 367-373.

DSIR LLU (loan) M.373

Sci - Phys  
Jul 59

90, 164

Kinetics of the Regeneration of Aluminosilicate  
Catalyst. Mechanism of the Oxidation of Coke  
on Aluminosilicate Catalysts, by O. M. Pauchekov,  
H. V. Golovanov, 14 pp.

RUSSIAN, no per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, 1952, pp 384-394.

CIA/FID/X-2357

Sci - Chemistry  
Apr 1957 OTS/sex

46,048