

The Study of the Method of Elastic Vibrations in the Kinetic Changes in the Properties of Melts on Heating, by  
M. G. Lozinskiy, et al.  
RUSSIAN, per, Izvest. Akad. Nauk SSSR  
O.T.N., no. 6, 1958, pp. 19-29.  
\*CFSTI TT 70-57076

Sci/phys  
Feb 70

Redundant Systems With Contact: 2 Elements, by  
G. V. Drushinin, 12 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 6, 1958, pp 96-98.

Dept of Commerce  
Dr Henry Hirshman  
Natl Bur of Standards

Sci - Physics  
Feb 59

80,575

Effect of Slightly Permeable Inclusions on Formation  
Flooding, by V. A. Karpychev, 5 pp.

RUSSIAN, par, in Ak Nauk SSSR, Otdel Tekh Nauk,  
No 6, 1958, pp 134-136.

AFB-39K23R

Sci - Engineering, Fuels  
May 59  
OTS V. I, No 8

88, 095

On Effective Coefficients of Friction for  
Vibrations, by I. I. Blekhnman, G. XM Yu.  
Dzhanelidze, 8 pp.

RUSSIAN, per, Izvestiya Akademii Nauk SSSR,  
Otdeleniye Tekh Nauk, No 7, July 1958.

CSIR 173

Sci - Engr

Oct 61

Transition of Flow From the Single-Phase To the  
Two-Phase State, by S. A. Lebedev, V. F. Usenko.

RUSSIAN, per, AK NAUK SSSR, Iz Otdel Khim Nauk,  
X No 7, 1958, pp 56-60.

Dept of Interior  
Tr No 230  
ATS/RT: 2797

Sci

Jan 63

Kononenko, V. O.  
RESONANT OSCILLATIONS OF A ROTATING SHAFT  
WITH A DISC (Rezonansnye Kolebaniya Vrashchayush-  
chegosya Vala s Diskom). June 61 [7]p. 3 refs.  
RTS 1866.

Order from OTS or SLA \$1.10

61-23638

Trans. of ~~Akademiyi Nauk~~ SSSR. ~~Ofdelenie~~  
~~Tekhnicheskikh Nauk~~. Izvestiya, 1958, no. 7,  
p. 87-90.

DESCRIPTORS: \*Shafts, Rotation, Oscillation, Disks,  
Turbine wheels.

The oscillatory system being studied is the rotor of an engine (a turbine) the disk of which is subject to a moment  $L(\varphi)$  depending on the speed of rotation of the engine. An analysis of the motion shows that certain vibrational phenomena occur in the resonant region, depending on the characteristics of the engine. The solutions obtained explain the familiar experimental facts and contain the theory of the Sommerfeld effect.

61-23638

I. Kononenko, V. O.  
II. RTS-1866  
III. Department of Scientific  
and Industrial Research  
(Gr. Brit.)

180591

Office of Technical Services  
(Machinery--Engines,  
TT, v. 6, no. 5)

Hypersonic Plan Around a Cone at an Angle of Attack,  
by A. I. Gonor, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 7,  
1958, pp. 102-105.

Morris D. Friedman G-154  
9092765

Sci - Physics  
May 59  
OTS V. 1, No 3

89.617

On Turbulence in Flans, by A. G. Proskov.

RUSSIAN, part, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 7, 1958, pp 130-133.

Navv 1978/T-41  
SLA 59-11898

Sci. - Physics  
Jan 59

79,873



Composition vs Hot Strength Diagrams of Alloys  
of the Titanium-Vanadium-Columbium System,  
by V. B. Vlasov, I. I. Kornilov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, No 7, Jul 1958, pp 136-139.

Henry Bratcher 2346  
\$7.30

Sci - Mlb/mec  
Oct 58

75,730

Some Principles for Developing Alloys Based on  
Borides [of High-Melting Metals], by K. I.  
Portnov, G. V. Sansonov.

RUSSIAN, Dok. Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, No 7, Jul. 1958, pp 140-141.

Henry Bratcher 4344  
\$4.30

Sci - KID/Mot  
Oct 58

75,729

Study of Combustion of a Homogeneous Mixture in a  
Turbulent Flow by Recording Temperature Vari-  
ations, by N. V. Kozushkin,

RUSSIAN, paper, in: Aviatsionnaya Tekhnika, Otdel Tekhn. Nauk,  
No. 3, 1958, pp. 3-11.

Navv 1968/1-56

Sci - Physics  
Jan 59

79,882

On the Coefficient of Resistance to Motion of  
Burning Particles, by V. N. Basov, V. A. Popov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 8, 1958, p 12.

Navy 2300/T-101

Sci - Physics  
Sep 59

96 217

Coefficient of Resistance to Motion  
of Burning Particles, by V. N. Basov.  
V. A. Popov.  
RUSSIAN, per, Iz Ak Nauk SSSR, OTN,  
No 3, 1958, pp 12-14.  
NASA TT F-10,033

Sci-H/M  
May 66

300,861

On the Time to Failure During Creep, by L. M.  
Kachanov. UFGI

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 8, 1958, pp 26-31.

DSIR LIU RTS 1114

15s. Cd.

Sci - Min/Met  
Sep 59

95, 846

The Creation of Vertical Fractures in  
Formations with the Aid of Infiltrating  
Fluids, by Yu. P. Zheltov, 9 pp.

RUSSIAN, pap, Iz Ak Nauk SSSR, Otdel  
Tekh Nauk, No 8, 1957, pp 56-62.

ATS-24M4R

Sel  
Vol IV, No 11  
Jun 62

<p>Zavalishin, D. A. NEW TECHNIQUES FOR A. C. FREQUENCY CON- VERSION BY MEANS OF VALVE CONVERTERS AND GENERATORS HAVING A VALVE COMMUTATOR (Novye Sistemy Preobrazovaniya Chastoty Peremennogo Toka pri Pomoshchi Elektronno-ionnykh Preobrazovate- lei i Generatorov s Ionnyim Kollektorom). July 61 [13 p. 4 refs. RTS 1888. Order from OTS or SLA \$1.60      61-2729'</p>	<p>61-27297</p> <p>I. Zavalishin, D. A. II. RTS-1888 III. Department of Scientific and Industrial Research (Gt. Brit.)</p> <p>7350</p> <p>Office of Technical Services</p>
---	--



Study of Structural Changes in Nickel-Chromium Alloy During Creep, by G. Ya. Kozyrskiy, et al.

RUSSIAN, par, in Ak Nauk SSSR, Otdel Tekh Nauk, No 8, 1958, pp 90-92.

Henry Bratcher 4:02  
\$5.25      ~~APR~~

Sci. - Min/Mat

Jan 59

78,646

TT-62-28212

Malyutin, I.S.  
FLAMBEMENT D'UNE TIGE AU-DELÀ DE SA LIMITE  
D'ELASTICITE (Buckling of a Bar Beyond the Elastic  
Limit). 12p. 6refs. CNRS-XV 115.  
Order from OTS, ETC or CNRS \$0.80 TT-62-28212

I. Malyutin, I.S.  
II. CNRS-XV 115  
III. Centre National de la Recherche  
Scientifique, Paris

Trans: in French of Akademiya Nauk SSSR. Otdelenie  
Tekhnicheskikh Nauk, Izvestiya, 1958, no.8, p.:12-  
116.

DESCRIPTORS: \*Rods, Pressure, Elasticity, \*Defor-  
mation, Plasticity, Theory.

(Mechanics, TT, v. 11, no. 6)

Office of Technical Services  
European Translations Centre

The Vortex Wake Accompanying Flow Past  
Oscillating Cylinders, by M. A.  
Pavlikhin, L. P. Smirnov, 7 pp.

RUBISYAN, per, Iz Ak Nauk SSSR, Otdel  
Tekh Nauk, No 8, 1958, pp 124-127.

ATS-49442R

Sci  
Vol IV, No 9  
Mar 62

187, 235

RJ-3818

61-11190

Grodzovskiy, G. L.  
SEVERAL EXACT SOLUTIONS TO THE PROBLEM  
OF GAS FLOW IN A TUBE WITH CONSIDERATION  
OF FRICTION AND CONVECTIVE HEAT EX-  
CHANGE, tr. by R. P. Illwitzer. 21 Nov 60. 5p.  
4 refs. APL/JHU TG 230-T199.  
Order from OTS \$0.50

61-11190

Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya 1958, no. 8, p. 127-129.

Solutions are obtained in general form that can be used for calculating gas flow in a pipe under arbitrary conditions, for example, for an arbitrary distribution of wall temperature along the pipe.

(Mechanics--Pneumatics, TT, v. 5, no. 12)

1. Gas flow--Mathematical analysis
2. Pipes--Aerodynamic characteristics
- I. Grodzovskiy, G. L.
- II. APL/JHU TG-230-T199
- III. Applied Physics Lab., Johns Hopkins, U., Silver Spring, Md.
- IV. Contract NOrd-7386

142978

Office of Technical Services

On Energy Balance in Separated Turbulent Flow,  
by B. A. Fidanov, 9 pp.

RUSSIAN, Izv. Ak. Nauk SSSR, Otdel. Tekhn. Nauk,  
No 8, 1958, pp 139-142.

SLA 60-44337  
1

181, 323

Sci.  
Jan 62  
Vol. III, No 10

Effect of Hydrogen on Structure and Properties  
of the Industrial Titanium Alloys VT 2, VT 3,  
and VT 3-1, by S. T. Glazunov, I. I. Kornilov,  
A. M. Yakimova.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk,  
No 9, 1958, pp 17-24.

Henry Bratcher 4506  
\$7.25

Sci • Chem

May 59

86,631

<p>El'yasberg, M. Ye.  <b>STABILITY OF THE METAL CUTTING PROCESS</b> (Ob          Ustoychivost' Protsessa Rezan'ya Metallov) tr. by          M. Slade. [1960] 34 p. (foreign text included) 7 refs.          Trans. no. 4493.          Order from LC or SLA ml\$3.00, ph\$6.30 60-23209          #9.30 61-10615</p> <p>Trans. of Akademiya Nauk SSSR. Otdeleniye          Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9,          p. 37-52.</p>	<p>60-23209</p> <ol style="list-style-type: none"> <li>1. Metals--Machining</li> <li>2. Cutting tools--Mechanical properties</li> </ol> <ol style="list-style-type: none"> <li>I. El'yasberg, M. Ye.</li> <li>II. CSIRO Trans-4493</li> <li>III. Commonwealth Scientific and Industrial Research Organization (Australia)</li> </ol> <p style="font-size: 2em; text-align: center;">142,991</p> <p style="text-align: center;">Office of Technical Services</p>
<p>A theory of self-induced oscillations in machining is developed which makes use of the mechanisms accompanying the deformation of the metal being worked.</p>	
<p>OTS TT-62-26398          RUSSIAN TO ENGLISH</p>	
<p>(Machinery--Manufacturing, TT, v. 5, no. 3)</p>	

Degassing of Aluminum Alloys by Ultrasonic Vi-  
brations, by M. B. Al'tman, et al.

RUSSIAN, Izv. Ak Nauk SSSR, Otdel Tekh  
Nauk, No 9, 1958, pp 25-30.

Henry Bratcher 4417  
~~XXXX~~ 05.35

Sci - Chem, Min/Met

Jan 59

79,594



Thermal Waves in a Layer and in a Plate in Contact  
With the Layer, by E. I. Chernigovskaya.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 9, 1958, p 91.

Navy 2010/T-55

Sci - Physics  
Jul 59

92,809

Testing of Thick-Walled Tubes Under High,  
Short-Duration, Internal Pressures, by  
P. J. Ogibalov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, No 9, 1958, pp 134-139.

ACSI I-0962  
ID 2191521

Sci .. Phys  
18 Apr 62

191,541

The Thickness of the Turbulent Mixing Zone at the  
Boundary of Two Gas Streams With Different Velocity  
and Density, by O. V. Yakovlevskiy,

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 10, 1958, pp 153-155.

ATS NJ-2206

Sci - Chem

DSIR LRU M. 1959  
ATS-24/1138R  
115,462

May 60

Experimental Verification of the Laws of Isotropy  
and Retardation in the Case of Complex Loading,  
by V. S. Lenskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 11, 1958, pp 15-24.

DSIR LLU M.1232  
(loan)

128,830

Sci - Phys

Oct 60

A Single-Axle, Electric Gyro-Stabilizer With the  
Rotor-Cage Axis at an Oblique Angle, by N. T.  
Kuzovkov,

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 11, 1958, p 70.

Navy 2057/T-86

Sci - Engg  
Mar 59

83,133

Heat Balance of Direct Current Welding Arc in Gases  
During the Period of Drop Formation, by I. D.  
Kulagin, A. V. Nikolayev.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 11, 1958, pp 89-91.

ATS RJ-2069

Sci - Chem  
Dec 59

104,070

The Regular Precession of a Gyroscope of  
Variable Mass, by V. S. Novoselov.

RUSSIAN, par. In Ak Nauk SSSR, Otdel Tekh  
Nauk, No 11, 1958, p 98. 9087052

Envy 2056/T-135

Sci - Physics  
Mar 59

83,134

Ammosov, I. I. and Musyal, S. A.  
VARIATION IN THE MICROHARDNESS OF COAL  
WITH REFERENCE TO ITS ORIGIN [Izmenenie  
Mikroverdsti Uglei v Zavisimosti ot Ikh Proiskhozhde-  
niya]. [1961] [13]p. (foreign text included) 5 refs.  
Order from OTS or SLA \$1.60 62-10206

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhni-  
cheskikh Nauk. Izvestiya, 1958, no. 11, p. 136-138.

DESCRIPTORS: \*Coal, Sources, Hardness,  
Geophysics.

Investigations were made of the changes in the micro-  
hardness of the petrographic components of a wide  
range of coals of various Soviet origins. Measurement  
of the micro-hardness was effected by means of the  
PMT-3 instrument with an indenter load of 10 g. The  
experiments were carried out in reflected light with  
(Materials: - Fuels, TT, v. 7, no. 10) (over)

62-10206

I. Ammosov, I. I.  
II. Musyal, S. A.

Office of Technical Services



(NY-3120).

Nikolay Nikolayevich Kachalov (75th Birthday),  
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 11, 1958, pp 1281-1282.

JPRS-L-1106-N

Sci - Misc  
Jan 60

<sup>21</sup>  
The Perturbation Method for the Problem of a Strong  
Detonation, by E. I. Andriankin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1958, p 5-14

SLA 60-21770  
Navy 2220/T-129

Sci - Physics  
Jul 59

92, 818

Absorption and Dispersion of Weak, Induced Waves  
of Very Low and Very High Frequency Under the In-  
fluence of Radiative Heat Transfer, by V. A.  
Prokov'yev.

<sup>A</sup>  
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1958, p 15.

Navy 2221/T-130

Sci - Physics  
Jnl 59

92, 820

Swirling Flow of an Incompressible Fluid in a  
Circular Tube, by M. A. Gol'shtik, 12 pp.

RUSSIAN, part, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1958, pp 24-31. 9093732

AEC Tr-4832

Sci - Engr, Phys  
Dec 61

177, 424

Investigation of the Slippage Mode in an Automatic Control System, by M. V. Starikova, 6 pp.

RUSSIAN, per, Iz Ak Nauk, Odel Tekh Nauk, No 12, 1958, pp 53-58.

Automation Express  
Vol I, No 8  
Internat'l Physical Index

Sci  
Jun 59

available in SLIB

40,423

PLASTIC DEFORMATIONS IN A THICK-WALLED TUBE U  
NDER THE ACTION OF HEAT PULSES AND

IL'YUSHIN, A.      LANGUAGE-RU      COUNTRY-UR

IZV. AKA. NAUK-OTD. TEKH. NAUK., NO. 12, 1958  
, 85-89

FSTC-HT-23-0441-73

On the Plastic Deformations of a Thick-Walled  
Tube Subjected to Thermal Pulses and Pressure,  
by A. A. Il'iushin, P. M. Ogibalov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1958, p 85-88

SLA 66-31763  
Navy 2222/T-131

Sci - Physics  
Jul 59

92,821

Development of the Combustion Process of Moving  
Particles in Nonstationary Hydrodynamic and Thermal  
Conditions, by V. A. Popov, *10 pp*

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 12, 1958, pp 90-95. 9049282

Johns Hopkins Univ  
Applied Phys Lab  
Silver Spring, Md.  
Navy 2418/T-132.

Sci - Phys

Jun 60

SLA 60-21061

120,182



THE EFFECT OF HYDROGEN ON STRUCTURAL TRANSFORMATIONS IN TITANIUM ALLOYS, BY N. I. BLOK, A. I. GLAZOVA, ET AL, 13 PP.

RUSSIAN, PER, IZVESTIYA AKADEMII NAUK SSSR, OTDELENIYE TEKHNIЧЕСКИХ НАУК, NO 12, 1958, PP 96-99.

JPRS 17990

SCI - M/M

MAR 63

224,614

Decomposition of Sulphedral Collectors  
Under Flootation Conditions, by I. N.  
Pikasin, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel  
Khim Nauk, No 12, 1958, pp 115-119.

SLA 60-16812

Sci  
Vol IV, No 7  
Apr 62

193,847

Mechanism of Oxidation of Some Ni-Cr  
Base Alloys, by D. Ignatov, R. Shanguova.  
RUSSIAN, per, Iz OTN Akad Nauk SSSR,  
No 3, 1959, pp 83-87.  
\*FTD-TT-65-1919

Sci-Chem  
Det 65

Calculating the Critical Velocities During Movement  
of Loads Over a Beam, by A. B. Morgayevskiy.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
~~Fizik~~ No 3, 1959, pp 176-178.

\*FTD-MT-62-29  
MACHINE TRANSLATION

Sci - Phys

Aug 62

Contribution to the Theory of Spherical Air  
Bearings, by Ya. M. Kotlyar,

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, No 6,  
1959, pp 21-26.

\*ATIC

Sci - Phys

16 May 61

C-925

(SF-1965)

Nikolay Antonovich Dollezhal', 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel  
Tekh Nauk, No 6, 1959, pp 196-197.

JPRS 12803

USSR  
Biog  
Mar 62

# 14

(DC-4054)

An Approach Toward a Theory of Nonperturbed  
Systems With Three Channels for Automatic  
Compensation of Accelerations Due to Gravity,  
by V. A. Bodner, V. P. Seleznev, 17 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 1, Jan/Feb 1960, pp 76-85.

JPRS 3843

Sci - Phys, Space Research  
Sep 60

125,671

Application of Low Angle Scattering of ~~XX~~  
X-Rays to the Study of Ultra Fine Porosity  
of Coal, by M. A. Davydova, G. M. Plavnik.

RUSSIAN, per, Ak Nauk SSSR Izvestiya Otdel  
Tekh Nauk, No 6, 1960, pp 150-155.

CRL/T. 1042

Sci-Fuels & Propulsion  
Mar 63



Equilibrium of Cylindrical Rubber-Cord  
Envelopes, by V. L. Biderman and B. L. Bukhin.  
RUSSIAN, per, Akademiya Nauk SSSR. Izvestiya.  
Otdelenie Tekhnicheskikh Nauk. Mekhanika, No 6,  
1960, pp 156-158.  
NTC 13870-20K

Feb 72

Sulfate Roasting of Vysokogorsk Iron Ores in a  
Fluidized Bed, by L. A. Petrov.  
RUSSIAN, per, Izv Ak Nauk SSSR, Otd Tekh Nauk Met i  
Toplivo, No 1, 1961, pp 31-38.  
ATS RJ-5126

Sci-Mat  
July 69

385,504

Some Problems of Thermal Stability, by M. Yu.  
Bal'shin, Day Shou-Huey,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
No 3, 1961, pp 73-76.

\*FTD TT-61-160

Sci - Engr  
Oct 61

Izvestiya Ak Nauk SSSR, Otdel Tekh Nauk, Jan 1962,  
cover-to-cover, will be made ~~xxx~~ available by  
Scientific Information Consultants Ltd.

Per AEC list 71

Jan 62

90 30 42 STS 69-20309

ESK Derivatives of Perfluodicarbonic Acids, by  
I. L. Khmyants, N. P. Krasnikaya, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 1  
1963, pp 190-192. 9669401

FFD-TT-63-463

Sci-Chem  
July 63

235,825

Pressure and Erosion in Region of Separation  
Cavitation of a Round Profile, by

K. K. Shal'nev. 17 pp.

RUSSIAN, per, Iz AN SSSR, Otdeleniye

Tekhnicheskikh Nauk Energetika i

Avtomatika, No 6, 1954, pp 111-120.

P100115767

FTD MF 65-657

Mechanical

May 67

3254,958

One-Phase Rectifiers of Frequency Converter  
Applied to the Electric Drive Using a Single  
Armature Converter, by V. S. Kulebakin, A. A.  
Yanushin, 1959, pp.

RUSSIAN, per Izvestia Akad. Nauk. Otdel. Tekh.  
Nauk. Elektrotekhnika i Avtomatika No 1, 1959,  
pp 11-19.

Automation Express  
Vol 1, No 8  
Internat'l Physical Index

*sci*

Jan 59

AVAILABLE BR 5 91,048  
LIBRARY

(NY 3005/1).

<sup>a</sup>  
Application of the Electroanalytical Method to  
the Solution of Radiant Heat Transfer Problems,  
by V. N. Adrianov, 10 pp.

RUSSIAN, EPR, in Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 1, 1959, pp 20-29.

JPRS-L-1117-M

Sci - Eng  
Dec 59

103,477



(NY-3905/1)

On the Derivation of a Basic Equation of the  
Hydrodynamic Theory of Heat Transfer, by P. M.  
Binkov, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 1, 1979, pp 26-32.

JPRS-L-1117-N

Sci. Engr  
Dec 59

103,476

(NY-9905/1).

Calculation of Heat Transfer and Friction of a Flat Plate Swept by a Supersonic Flow in the Presence of Porous Intake of a Gas and Sublimation Under Laminar Boundary Layer Conditions, by V. P. Potulovich, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Energetika i Avtomatika, No 1, 1959, pp 33-38.

JPRS-L-1117-N

Sci - Engr  
Dec 59

103,472

TT-63-23955

Filinov, M. V. and Charnyi, I. A.  
APPROXIMATE METHOD OF CALCULATION FOR  
FORCING GAS INTO A WATER BEARING LAYER  
AND COMPARISON OF THIS METHOD WITH SOME  
EXACT SOLUTIONS. [1963] [5p] 5refs.  
C. E. Trans. 2736.  
Order from OTS, SLA, or ETC \$1.10 TT-63-23955

- I. Filinov, M. V.
- II. Charnyi, I. A.
- III. CE Trans-2736
- IV. Central Electricity  
Generating Board  
(Gt. Brit.)

Trans. of Akademiya Nauk SSSR, Otdelenie  
Tekhnicheskikh Nauk, [izvestiya]: Energetika i  
Avtomatika, 1959, no. 1, p. 100-103.

*NLL (LOAN) Ref:*  
*9/22/79 176 (2-1-0)*

DESCRIPTORS: \*Gases, Injection, Geology, Storage,  
Water, Fluid flow, \*Hydrodynamics, Hydraulic  
research,

(Mechanics--Hydrodynamics, TT, v. 11, no. 5)

Office of Technical Services

On the Transmission Capacity of A Multi-path Information System, by I. A. Ovseevich, M. S. Pinsker.

RUSSIAN, per, Izvestia Akademi Nauk, Otdel Tekh Nauk, Energetika i Avtomatika, No 1, Jan 1959, pp 133-135.

Internatl Physical Index  
Automation Express  
Vol 2, No 1

Sci

Aug 59

93,843

Conference on the Theory and Application of Discrete  
Automatic Control Systems, by I. S. Morozanov.

RUSSIAN, per, Iz Ak Nauk, Otdel Tekh Nauk, Energetika  
i Avtomatika, No 1, Jan 1959, pp 137-138.

Internatl Physical Index  
Automation Express  
Vol I, No 9

Sci

Aug 59

93, 852

(NY-3905/1).

Conference on the Theory of Invariance, Resolu-  
tions of the Conference, by V. A. Bodner,  
3 pp.

RUSSIAN, por, Iz Ak Nauk SSSR, Otdel <sup>k/</sup> Tekh Nauk,  
Energetika i Avtomatika, No 1, 1959, pp 139-140.

JPRS-L-1117-N

Sci - Engr  
Dec 59

103,473

(100 305/11)

November General Meeting of the Department of  
Technical Sciences, by M. G. Solomonov. 5 pp.

RUSSIAN, per, Ye An Hach USSR, Otdel. 1951, No. 1,  
Energobiznes i Akkumulatsiya, No. 1, TsSU, p. 10-11

JPRS-L-1117-5

SLI - 100  
Per 19

103,469

(NY-3905/1).

Twelfth Scientific and Technical Session on  
Gas Turbine Building, by I. P. Stul'nikov,  
4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 1, 1959, pp 144, 145.

JPRS-L-1117-N

Sci - Engr  
Dec 59

103,465



Lower Branch of Hugoniot's Curve as a Set of  
Points Describing the Combustion Regime in  
Rocket Motor Chambers, by Ya. K. Troshin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk.  
Energetika i Avtomatika, No 2, 1959, pp 3-12.

Amer Rocket Soc  
500 5th Ave Ny 36, NY

Sci - Engr

Oct 59

100,319

Structure of Turbulent Flame of Homogeneous and  
Heterogeneous Mixtures, by V. Ya. Rasovich, S. M.  
Kupchko, 6 pp. UNCL

RUSSIAN, part, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 2, 1959, pp 13-20.

American Rocket Society Journal  
Oct 1959, Vol XXIX, No 10, Part I

Sci - Chem  
Nov 59

100,703

Effect of Flow Pulsations on the  
Turbulent Speed of Flame Propagation,  
by L. S. Kosachenko, 4 pp. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 25, 1959, pp 21-25.

American Rocket Society Journal  
Oct 1959, Vol LXIX, No 10, Part I

Sci - Flava      OTS 62-11464      100,705  
Nov 59

Effect of Pressure on the Expansion Rate of  
a Flame in a Turbulent Flow, by B. A. Gol'd-  
sberg, V. S. Pelevin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 2, 1959, pp 26-31.

Amer Rocket Soc  
500 5th Ave NK 36, NY

Sci - Engr

Oct 59

98,869

Evaluating the Operation of the Simplest  
Ramjet Combustion Chamber, by A. V. Talantov.

RUSSIAN, per, Iz Ak Nauk SSSR, Gidrol Tekh Nauk,  
Energetika i Avtomatika, No 2, 1959, pp 32-37.

Amer Rocket Soc  
500 5th Ave NY 36, NY

Sci - Engr

Oct 59

98,870

One Problem in Nonstationary Heat Conduction, by  
V. G. Zerubin, 4 pp. UNCL.

RUSSIAN, par, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 2, 1959, pp 38-41.

American Rocket Society Journal  
Oct 1959, Vol XXIX, No 10, Part I

Sci - Phys  
Nov 59

100,706

(NY-3905/1).

Calculation of Servo Systems With Self Regulating  
Parameters, by Yu. M. Kozlov, 10 pp.

RUSSIAN, per Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 2, Mar/Apr 1958,  
pp 65-76.

JPRS-L-1117-N  
Internat'l Physical Index  
Automation Express  
Vol 2, No 2

Sci - Engr  
Dec 59

103,474

The Application of the Oscillation Index to the  
Design of Nonlinear Servosystems, by S. M. Fedorov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomat, No 2, 1959, pp 71-76.

Internatl Phys Index  
Automation Express  
Vol II, No 4

Sci - Phys

Jun 60

120,186



(NY-3905/1).

Accelerated Testing of the Reliability of Electrical  
Elements of a Technical System, by A. M. Polovko,  
7 pp.

RUSSIAN, part, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 2, Mar/Apr 1959,  
pp 99-103.

JPRS-L-1117-N

Sci - Engi  
Doc 59

103,475

Measurement of the Speed of Propagation of Turbulent  
Combustion, by K. I. Shebekin, 2 pp.

RUSSIAN, per, ~~LE Ak Bank~~ ~~ISIR~~, Otdel Tekh Nauk,  
Energet i Avion, No 2, 1959, pp 137, 138.

ARB, Vol XXX, No 1,  
January 1960

Sci - Hayden  
Feb 60

107,613

(NY-3905/1).

Observations of Temperature Waves During  
Oscillations of a Flame in a Tube, by S. A.  
Abrukov, 2 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh  
Nauk, Energetika i Avtomatika, No 2, Mar-Apr  
1959, p 139.

\*JPRS - L-1117-N

Sci - Engr  
Aug 59

(BY-3505/1).

Motion of Bodies in Supersonic Flow, by O. J. Kuznetsov, Ye. A. Mitkin, A. S. Prokhorov,

RUSSIAN, Tr. Akad. Nauk SSSR, Ser. Mekh. i Mash. Stroyeniya, No 2, Jan/Apr 1959, pp. 100-104.

JPRS-SECRET  
MDF-R-174  
RAF 105/ 103,480

(DC-3696)

Nikolay Vasil'yevich Mel'nikov, Corresponding Member  
of the Academy of Sciences USSR, by L. D. Shevyakov,  
L. N. Marchenko, 3 pp

RUSSIAN, per, Iz AN SSR, OTN, No 2, 1959, pp 175-176

JPRS 3846

USSR  
Biog  
Sep 60

The Five-Year Plan and Goals in the Technical  
Sciences, KX

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energet i Avtomat, No 3, 1959, pp 5-6.

\*RAND

Sci-Misc  
Jan 63

(NY-3098)

On the Theory of Inertial Damped Systems With an Arbitrary Period, Which Are Invariant With Respect to the Object's Maneuvering, by V. A. Rodner, V. P. Seleznev, V. Ye. Ovcharov, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Energetika i Avtomatika, No 3, 1959, pp 11-18.

JPRS 20016

Sci - Engr

134,329

Dec 60

(NY-3098).

Transient Processes in Optimal Control Systems,  
by G. M. Kryzhanovskiy, V. M. Kuntsevich, 23 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Otd, Energetika i  
Avtomatika, No 3, 1959, pp 32-42.

JPRS-2009-N

USSR  
Sci - Engineering  
Dec 59

101, 505



20m P

22919

DC

Spec B

21 Apr 69

SF

Piecewise Approximation of a Television Signal  
Using the Properties of Sight, by V. A. Makhonin.

Russian, per, Izvestiya ~~AM~~ Ak Nauk, OTN, Energetika  
i Avtomatika, No 3, Moscow, 1959, pp 50-54.

Special type B: translator's draft plus one  
copy.

Calculation of the Heating of Shells at High  
Speeds, by E. N. Sokolova, 4 pp.

RUSSIAN, part, In Ak Nauk SSSR, Otdel Tekh Nauk,  
Energiya i Avtomat, No 3, 1959, pp 90-94.

ARS  
Apr 60

Sci

Apr 60

115, 514

The Theory of the Transient (Unsteady) States of  
Gas Turbine Engines, by Yu. P. Nikolayev.

RUSSIAN, Doc, Iz Ak Nauk OTN Energet i Avtomat,  
1959, No 3, pp 95-99.

TIL/T. 5224

175,998

Sci - Physics

Doc Cl

Connection Between the Flame Temperature Measured by  
Optical Means and by Other Methods, by K. P. Vlasov,  
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel. Tekh. Nauk,  
Zhurnal: I Avtomat., No 3, 1959, pp 100-103.

APS, Vol. XX, No. 1,  
January 1960

*ADP V-151*

Sci. - Physics  
Feb 60

*107,609*

(NY-3998).

The Use of Automatic Digital Computers for  
Accomplishing Design Work, by I. S. Bruk, 28 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Eng. Energetika i  
Avtomatika, No 3, 1959, pp 141-150.

JPRS-2028-W

USSR  
Sci. - Engr  
Dec 59

102,259

(NY-3028).

The Use of Biocurrents for Control Purposes, by A.  
Ye. Kobrinshiy, 9 pp.

RUSSIAN, Tr. Ak. Nauk SSSR, OTD, Energetika i  
Avtomatika, No 3, 1959, pp 151-154.

JPRS-3030-H

*0.17-8-1*

USSR  
Sci - Engineering  
Dec 59

*101,507*

(NY-3098).

A Comparison of Systems' Reliability in the  
Case of Redundancy in Individual Components and  
the System as a whole, by Kh. L. Smolitskiy, P. A.  
Chukreyev, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 3, 1959, pp 176-178.

JPRS-2007-N

USSR  
Sci - Electronics  
Nov 59

101,557

(BY-3098).

Large Capacity Logic Machine for Relay Circuit  
Analysis, by P. P. Parkhomenko, 5 pp.

RUSSIAN, per, Iz Ak. Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 3, 1959, pp 179, 180.

JFRS 2031-B

USSR  
Sci - Electronics

Mar 60

111, 444



(NY-3098).

On the Application of a Quantitative Estimate of  
Operational Reliability of Devices in Automatic  
Systems, by A. V. Mayorov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,  
Energetika i Avtomatika, No 3, 1959, pp 181-182.

JPRS-2008-N

USSR  
Sci - Engineering  
Nov 59

101,558

(NY-3098).

On Codes which Limit the Range of Error, by M. Ye. Kirillov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, OTD, Inzhetika i Avtomatika, No 3, 1959, pp 183-184.

JPRS-2029-F

USSR  
Sci - Math  
Dec 59

101,478

(SI-3096).

Conference on Problems of Statistical Coding, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, OTD, Energetika i  
Avtomatika, NO 3, 1959, pp 191, 192.

JPRS-2032-N

USSR  
Sci - Math  
Dec 59

101,506