

REQ TR CHECK

8-1-1

BR71-0022

A Weekly Transonic Flow Over Slender Bodies
Fal'kovich, S.V. and Lemeshinskaya, O.M.
Russ: Transzvukovyye Tcheniya Gaza. Sbornik
Statey. Saratov. Izd-vo Saratovskogo
Universiteta. 1964
pp. 9-21

TELEPHONE NEGATIVE - 8 Jan 71

*In process as**HT-23-71-31*

REQ TR CHECK

8-1-3

BR71-0024

Self-similar Solutions in Transonic Gas
Dynamics

Chernov, I.A.

Russ: Transzvukovyye Tsecheniya Gaza. Sbornik
Statey. Saratov, Izd-vo Saratovskogo
Universiteta. 1964

pp. 63-100

TELEPHONE NEGATIVE -8 Jan 71

In progress as

HT 23-71-35

Types and Causes of Fractures in Steam Turbine
Discs, by V.M. Nikiforova and N.A. Reshetkina
RUSSIAN, per, Sbornik Tsentral'nogo Nauchno-
Issledovatel'nogo Instituta Tekhnologii i
Mashinostroyeniya (TSNIITMASH), No. 92,
1950, pp. 73-82.
C.E. Trans. 5446

Agency: U.S. Army Cold Regions Res. & Eng. Lab.
P.O. No.: 72-P-37 2-14386-8
Title: Rasvitiia protsessa predpostroyeniya
otkryvaniya i uplotneniya vechnozems-
logo grunta (Development of the process
of pre-construction thawing and consol-
idation of permafrost)
Authors: Zhukov, V.F. & I.I. Prolov
Source: Sbornik Trudov N.-I. Inst. Otkryvaniya i
Podzemnykh Sooruzhenii 50:72-79, 1962.
Language: Russian

S:8

Raising the Level of Industrialization in
Rural Construction, by V. Gushchin, 6 pp.
RUSSIAN, per. Sel'skoye Stroitel'stvo, No 6,
Jun 1966, pp. 1-2.
JPRS 38600

USSR
Econ
Nov 66

313,884

The Tasks of the Ministry of Reclamation and
Water Resources RSFSR During the New Five-
Year Plan Period, by N. Ovsyannikov, 7 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 7,
Jul 1966, pp. 34.
JPRS 38304

USSR
Econ
Nov 66

313,679

Introduction of New Machinery Into Rural
Construction, by M. Shulenin, 6 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 9,
1966, pp. 20-21,
JPRS 39131

USSR
Sci-Mech, Industrial Engr
Feb 67

315,266

The Annual Plan for Rural Construction Must
be Fulfilled, 8pp'
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 11,
Nov 1966, pp 1,2.
JPRS 39668

USSR
Econ
Feb 67

318.895

Ways for Improving Rural Construction in Russia
in 1967, 5 pp.

RUSSIAN, per, Sel'skoye Stroitel'stvo, No. 12,
Dec 1966, pp. 1-2.

JPRS 40222

USSR
Econ
Apr 67

321,251

When Will the Farms Have Full-Value Mixed Feed?
by P. Chaykin, 6 pp.
RUSSIAN, per, Sel'skoy Zhizn, 26 Feb 1967, p. 2.
JPRS 40485

USSR
Sci-Agric
June 67

323,390

Results of Investigations of the Outer Range of
the Ionosphere According to Radiosignal Obser-
vations of the First Artificial Satellite of the
Earth, by Ya. I. Al'pert and E.F. Chudsenko.
RUSSIAN, per, Rak 1 Sput:Shor Stat, 1958, vol.1,
sect.2, pp.40-108.
OTS-TT-64-19743

ES/Astron
Aug 66

7
306,666

Experimental Determination of the Magnitude of
Critical Pressures for Conical Shells, by
I. I. Trapezin.

RUSSIAN, per, Sbornik Statey, Raschety na Prochnost
Teoreticheskiy i Eksperimenta''nyye Issledovaniya
Prochnosti Mashinostroitel'nykh Konstruktsiy,
No 6, 1960, pp 217-230.

*FTD-MT-62-63

Sci - Engr
Oct 62

On Criteria of Shells, by A. S. Vol'mir.
RUSSIAN, per, Sbornik Statey Raschet
Prostranstvennykh Konstruktsiy, No 9,
1964.
*FTI-MT-65-511

Sci/Engineering;
Oct 65

Review of Investigations on Statistical Dynamics
of Elastic Systems, by V. V. Bolotin.
RUSSIAN, mono, Sbornik Statey, Raschety No Prochnost',
No 10, 1964, pp 211-260.
*FTI-MT-64-522

Nov 64

Forestry and Timber Industry in the Taiga Zone
of the USSR, by M. V. Kolpikov,
RUSSIAN, rpt, Sbornik Statei po Rezul'tatam
Issledovaniy v Oblasti Lesnogo Khozyaystva
i Lesnoi Promyshlennosti v Tayozhnoi Zone
USSR, 1987, pp 1-289.
CPSU, IT 68-50036

Sci-Agr
Dec 80

315,514

62-15685

Nerazov, I. L. and Ryznichenko, Yu. V.
EARTHQUAKE FREQUENCY AND A SEISMIC ACTIVITY CHART, tr. by Burton J. Hobson, July 61 [12].
28 refs. Am-MetSoc: T-R-369.
Order from: ODS of SLA \$1.60

62-15685

Trans. of Seismicheskii i Giyatologicheskii Issledovaniya: Sbornik Statei (USSR) 1959, no. 2, p. 31-38.

DESCRIPTORS: *Earthquakes, Frequency, Distribution, *Mapping, *Seismic waves, Micrometams, Measurement.

I. Nerazov, I. L.
II. Ryznichenko, Yu. V.
III. Am-MetSoc: T-R-369
IV. American Meteorological Society, Boston, Mass.
V. Contract AF 19(604)6113

(Earth Sciences--Seismology. TT, v. 9, no. 5)

Office of Technical Services

Theory of an Arrangement to Reduce Parachut
Landing Speed, 15 pp.
RUSSIAN, per. Spetsial. Sposoby, Teoretich i Prik Mekh,
Vol II, 1962, pp 611-622. 9096083
FTD-IT-64-777

Sci - Aero
Mar 65

275,646

Belyayev, A. F. THEORY OF DEFLAGRATION OF HIGH EXPLOSIVES tr. by F. E. Wallwork. June 60 [23] p. 7 refs. AWRE Trans. U. 135; DSIR NLL M. 2370. Order from OTS or SLA \$2.60 61-19116 Trans. of mosk. <u>Sbornik Statei Teorii Vzryvchatki</u>, n. p. 1940, p. 21-38. DESCRIPTORS: *Explosives, *Vaporization, Ignition, Decomposition, Detonation, Explosive gases, Vapor pressure, Temperature. (Engineering--Ordnance, TT, v. 7, no. 8)	61-19116 I. Belyayev, A. F. II. AWRE U-135 III. DSIR NLL M. 2370 IV. Atomic Weapons Research Establishment (Gt. Brit.) 201416 Office of Technical Services
---	--

Determining Suitable Conditions for Plane Case-
Hardening, by V. V. Spershtkov.

RUSSIAN, per, Sbornik Statey Trudov Krasnogo Znameni
Zavod. Opyatnogo Mash. Imeni S. Ordzhonikidze.
No 6, 1958, pp. 61-69.

DSIR LDU NTS 1402

Sci. - Eng.

Aug 60

122,524

Contributions to Long-Range Weather Forecasting
in the Arctic,
RUSSIAN, rpt, Sbornik Statei po Voprosam Dolgos-
rochnykh Prognozov Pogody Na Arktiki, 1963,
pp 1-240.
CFSM TT 66-51059

Sci-Atmos Sci
Mar 67

320,213

Experimental Operation of a Unit for Rapid
Processing of Oil Shale Fines Using a Solid
Heat Transfer Medium, by N. Ye. Kunakov,
S. L. Spitsyn, et al, 13 pp.

RUSSIAN, monograph, Sbornik Statey
Voprosy Tekhniki i Ekonomiki Prom
Kolkhozovaniya Seryuchiki: Slantsov,
1957, pp 293-307.

AMS-064364R

188,866

Sci
Mar 62
Vol IV, No 2

Equipment and Components of the Large-Scale Pilot Unit Using a Solid Heat Transfer Medium, by O. A. Baidar, ~~XXXX~~ Aronovich Yu. V. P. A. Trufanov, 3 pp.

RUSSIAN, monograph, Sbornik Statey Voprosy Tekh i Nauk Proizvodstva Goryuchikh Sil'nykh, 1977, pp 307-315.

AMB-88368

Sci
Mar 62
Vol IV, No 2

188,861

Tests on Removing Dust From the Vapor-
Gas Mixture Produced at the Plant for
the ~~XXX~~ Sintering of Shale Fines Using
a Solid Heat Transfer Medium, by I. N.
Arabashi, N. N. Shipkov, V. I. Chikol,
8 pp.

RUSSIAN, monograph, *Sbornik (Materialy
Voprosy Tekh i Nauch Prom Poliskovaniya
Goryuchikh Slantssev*, 1957, pp 315-323.

AMB-89150R

188,869

Sci
Mar 62
Vol. IV, No 2

Several Methods for Cleaning Gases Obtained
From Semicoking of Oil Shale, by S. L.
Epsteyn, V. R. Kalar, 10 pp.

RUSSIAN, monograph, Sbornik itatey
Voprosy Tekh i Nauch Prom Promyshlennosti
Goryuchikh Slantsay, 1957, no 584-335.

AMS-9436R

Sci
Mar 62
Vol IV, No 2

188,864

Skrjabin, A. C.
 METHOD OF CALCULATING THE HYDRAULIC
 RESISTANCE IN PIPES FOR PUMPING OF VISCOUS
 AND ELASTIC VISCO-PLASTIC PRODUCTS UNDER
 CONDITIONS OF HEAT EXCHANGE AND HIGH
 PRESSURE. 24 Aug 61 [12p. 12 refs. MCL-994
 AD-264 630.
 Order from DTIC or SLA \$3.60

62-24042

Undated rough draft trans. of ~~Vysokopressurnye~~
~~islozheniya~~ (4) (1) Khranitel'skii Institut Khimich-
 eskogo Mashinostroyeniya [Shtetnik State] (USSR)
 1958, no. 24, p. 10-12.

DESCRIPTORS: *Petr (dum), *Hydraulic pressure
 pumps, Pipes, Viscosity, Fluid flow, Turbulent flow,
 Pressure, Heat exchangers, Heat transfer, Mathe-
 matical analysis

During the manufacture of synthetic liquid fuel, a
 (Mechanics... Hydraulics, TT, vi. 8, no. 10) (over)

62-24042

- I. SKRIBIN, A. C.
- II. MCL-994
- III. Petrov, I. A. [Petrov, A. I.].
 Systems of control, design,
 Patterson, A. B., Ohio.
- IV. AD-264 630

Office of Technical Services

THE EFFECT OF THE VELOCITY OF THE MEDIUM
ON THE CORROSION OF STEEL. ~~XXXXXXXXXX~~
1KH18NST, BY G. I. SHVARTS, I. G. VOLIKOVA.

RUSSIAN, ~~REXX~~ BK, SBORNIK STATEY VSESOYUZ NAUCH X
ISSLEDOVANIYA I KONSTR INST KHIM MASHINOSTR,
VOL XXV, 1958, PP 75-86.

NLL M.3506

6151 2293

SCI - CHEM

JUN 62

100,110

(SF-1433).

Viktor Vladimirovich Vinogradov, by N. S. Pospelov,
RUSSIAN, bk, Sbornik Statey po Yazykoznaniiu, 1958,
pp 9-23.

*JPRS

USSR
Bio
18/1/61

62-17087

Zhigalov, L. N.
SOME FEATURES OF THE VARIATION OF THE
GEOMAGNETIC VERTICAL COMPONENT IN THE
ARCTIC OCEAN, tr. by E. R. Hope. Oct 61, 4p.
4 refs. DSIS T 338 R.
Order from NRCC NRCC C-3856

Trans. from [Zemnoi Magnetizm i Zemnye Toki:
Sbornik Statist.] (USSR) 1960, no. 4.

DESCRIPTORS: *Arctic Ocean. *Terrestrial
magnetism. Magnetism. Measurement. Periodic
variations. Weather stations.

(Physics--Magnetism. TT, v. 8, no. 2)

- I. Zhigalov, L. N.
- II. DSIS-T-338-R
- III. NRCC C-3856
- IV. Directorate of Scientific
Information Services
(Canada)

Office of Technical Services

Kalinin, Yu. D., ed.
**GEOMAGNETIC DISTURBANCES: COLLECTION OF
 ARTICLES** (Geomagnitnye Vozmushcheniya. Sbornik
 State). Doc 61, 66p 29 refs N64-11657.
 Order from DTIC \$1.75 NASA TT-F-105

Trans. of [Geomagnetizm i Zemnye Toki: Sbornik
 State] (USSR) 1960, no. 4.
 Separate entries have been prepared for the individual
 articles. (Abstract available)

DESCRIPTORS: *Terrestrial magnetism, *Magnetic
 storms, Ionospheric disturbances, *Geophysics, Re-
 ports, Polar regions.

Included are articles discussing large geomagnetic
 storms and problems in their theory, latitudinal varia-
 tions in the yearly course of magnetic activity, mag-
 netic disturbances in the Arctic, the vertical component
 (Earth Sciences--Meteorology, TT, v. 11, no. 6)(over)

TT-64-11502

- I. Kalinin, Yu. D.
- II. NASA-TT-F-105
- III. N64-11657
- IV. National Aeronautics
and Space Administration,
Washington, D. C.

Office of Technical Services

Afanas'eva, V. I., and Kalinin, Yu. D.
**VERY LARGE AND LARGE GEOMAGNETIC STORMS
 AND SOME PROBLEMS IN THEIR THEORY.** Dec 63,
 14p 6refs N64-11658.

Order from OTS \$1.75 in NASA-TT-F-105 (p. 1-14)

Trans. from [Zhurnal Magnetizm i Zemnye Toki;
 Sbornik State] (USSR) 1960, no. 4. (Abstract available)

DESCRIPTORS: *Magnetic storms, *Terrestrial mag-
 netism, Ionospheric disturbances, Catalogs, Analysis

A number of questions on the theory of geomagnetic
 storms was considered using the catalogs of geomag-
 netic storms for 1878-1959 as a basis. Besides the
 well-known cycle (11-year) variations, 30-year varia-
 tions of summary duration of moderate storms were
 detected. Displacement of the maximum of a storm
 number in the 11-year cycle as to the maximum of rela-
 (Earth Sciences--Meteorology, TT, v. 11, no. 6)(over)

TT-64-11502 (p. 1-14)

- I. Afanas'eva, V. I.
- II. Kalinin, Yu. D.
- III. NASA-TT-F-105 (p. 1-14)
- IV. N64-11658
- V. National Aeronautics and
 Space Administration,
 Washington, D. C.

Office of Technical Services

Mishin, V. M., Mishina, N. A., and Kalininskaya, G. P.
ANALYSIS OF LATITUDINAL VARIATIONS IN THE YEARLY COURSE OF MAGNETIC ACTIVITY. Dec 63, 11p. N64-11659.
Order from OCS \$1.75 in NASA-TT-F-105 (p. 15-25)

Trans. from Zemnyi Magnetizm i Zemnaya Toki: Sbornik Statist (USSR) 1960, no. 4. (Abstract available)

DESCRIPTORS: *Magnetic storms, *Terrestrial magnetism, *Ionospheric disturbances, Periodic variations, Analysis

The main regularities of annual variations of magnetic activity obtained according to the data of 1955-1956, are analogous to those obtained according to the II IGY and IPY materials. In the polar region the average level of activity varies several times with the transition from local winter to local summer. According to the data of (Earth Sciences--Meteorology, TT, v. 11, no. 6) (over)

TT-(4-11502 (p. 15-25)

- I. Mishin, V. M.
- II. Mishina, N. A.
- III. Kalininskaya, G. P.
- IV. NASA-TT-F-105 (p. 15-25)
- V. N64-11659
- VI. National Aeronautics and Space Administration, Washington, D. C.

Office of Technical Services

Ol', A. I.
SYNOPTIC CHARTS OF MAGNETIC DISTURBANCE IN
THE ARCTIC. Dec 63, 10p 4refs N64-11660.
Order from CTS \$1.75 in NASA-TT-P-105 (p. 26-35)

Trans. from [Zemno Magnetizm i Zemnye Told:
Sbornik State] (USSR) 1960, no. 4. (Abstract available)

DES(RIPTORS: *Magnetic storms, *Terrestrial mag-
netism, *Ionospheric disturbances, Arctic regions,
*Meteorological charts

Based on the material of the Soviet high-latitude ob-
servatories and drifting stations synoptical charts of
magnetic disturbances (r¹) for 1957-1958 were made.
There are given mean two-hour charts for 1957 and
some examples of successive hourly charts of disturb-
ances. There is found to be a considerable variation of
disturbance distribution in the universal time. This
distribution is characterized by the existence of sepa-
(Earth Sciences--Meteorology, TT, v. 11, no. 6) (over)

TT-64-11502 (p. 26-35)

- I. Ol', A. I.
- II. NASA-TT-P-105 (p. 26-35)
- III. N64-11660
- IV. National Aeronautics and
Space Administration,
Washington, D. C.

Office of Technical Services

Zhigalov, L. N.
SOME PECULIARITIES OF VARIATIONS IN THE
VERTICAL COMPONENT OF THE MAGNETIC FIELD
OF THE EARTH IN THE ARCTIC OCEAN. Dec 63,
7p 4refs N64-11661.
Order from OITS \$1.75 in NASA-TT-F-105 (p. 36-42)

Trans. from [Zemniye Magnitizm i Zemnye Toki:
Sbornik State] (USSR) 1960, no. 4. (Abstract available)
Another trans. is available from NRC as NRC-C-3854,
DSIS-T-358-R, Oct 61, 4p.

DESCRIPTORS: *Arctic Ocean, *Terrestrial magnetism,
Magnetism, Measurement, Periodic variations,
Weather stations, Marine geophysics

The material of geomagnetic observations of the North
Pole-6 drifting station has been considered together
with the material of the USSR high latitudinal Arctic
geomagnetic observatories. It is detected that far from
(Earth Sciences--Meteorology, TT, v. 11, no. 6) (over)

TT-64-11502 (p. 36-42)

- I. Zhigalov, L. N.
- II. NASA-TT-F-105 (p. 36-42)
- III. N64-11661
- IV. National Aeronautics and
Space Administration,
Washington, D. C.

Office of Technical Services

Ponomarev, E. A.
ON THE NATURE OF THE COASTAL EFFECT.
Doc 68, 10p. Refs: 264-11662.
Order from OTS \$1.75 in NASA-TT-P-105 (p. 43-52)

Trans. from Zemnoi Magnitizm i Zemnnoye Toke,
Sbornik Statei (USSR) 1960, no. 4. (Abstract available)

DESCRIPTORS: *Marine geophysics, *Terrestrial
magnetism, Beaches, Antarctic regions, *Magnetic
fields, Equations, Numerical analysis

The coastal effect, discovered by S. M. Mansurov in the
region of the Muravy blavatory, is accounted for as a
skin-effect on a geophysical scale. There are given the
results of calculations and they are com-
pared with the experimental data. (Author)

(Earth Sciences--Meteorology, TT, v. 11, no. 6)

PA.

TT-64-11502 (p. 43-52)

- I. Ponomarev, E. A.
- II. NASA-TT-P-105 (p. 43-52)
- III. 64-11662
- IV. National Aeronautics and
Space Administration,
Washington, D. C.

Order from OTC \$1.75

Lipetskaya, N. V., Deniskin, N. A., Egorov, Yu. M.,
and Shel'ting, V. P.

STATIONARY MICROVARIATION STATION WITH
PHOTOELECTRONIC AMPLIFICATION. Dec 68, 8p
3 refs N64-11663.

Order from OTS \$1.75 in NASA-TT-F-105 (p. 53-60)

Trans. from [Zemnoi Magnetizm i Zemnye Toki:
Sbornik state] (USSR) 1960, no. 2. (Abstract available)

DESCRIPTORS: *Terrestrial magnetism, *Magnetom-
eters, Photoelectrons, Amplifiers, Physics laboratories,
*Measuring devices (Electrical and Electronic)

There is given a description of a microvariation station
with photoelectron amplification. The station is de-
signed for durable registration of microvariations of the
earth's magnetic field with a resolution by amplitude of
some thousand parts of a gamma (10^{-8} oersted) and with
a frequency up to one cycle per second. High-sensitive.
(Earth Sciences--Meteorology, TT, v. 11, no. 6) (over)

TT 64-11502 (p. 53-60)

I. Lipetskaya, N. V.

II. Deniskin, N. A.

III. Egorov, Yu. M.

IV. Shel'ting, V. P.

V. NASA-TT-F-105 (p. 53-60)

VI. N63-11663

VII. National Aeronautics and
Space Administration,
Washington, D. C.

Office of Technical Services

Mansurov, S. M.
 SECULAR VARIATION OF THE GEOMAGNETIC
 FIELD OF THE EAST ANTARCTIC. Doc. 63, 6p (info.
 NO4-11664.
 Order from GTS \$1.75 in NASA-TT-P-106 (p. 61-66)

Trans. from Journal Magnetism i Zemnyy Tok
 (Soviet Acad. Sci.) (USSR) 1960, no. 4. (Abstract available)

DESCRIPTION: *Terrestrial magnetism, *Magnetism
 *Field, *Secular, *Regional, Periodic variations.
 Measurements

The secular geomagnetic variations for the 1957-1959
 period were drawn using the data of the USSR Antarctic
 magnetometer observations. The attention was drawn to the
 great amplitude of the long-period variation in the
 present, superimposed on general secular variations.
 The change of Z-magnetic variation sign at Travy and
 Vostochny observations were noticed. (Author)
 (Earth Sciences - Meteorology, TT, v. 11, no. 6)

TT 64 11502 (p. 61-66)

- I. Mansurov, S. M.
- II. NASA-TT-P-106 (p. 61-66)
- III. NO4-11664
- IV. National Aeronautics and
 Space Administration,
 Washington, D. C.

Some Data on the Effect of Added Oxygen
on Heat Emission as Bottom Flow through
a Cooled Pipe, by A. S. Andreev, E. D.
Fedorovich, A. V. Shcheglov, 1963.
RUSSIAN, Unedited rough draft trans. of
mono. Reactive Metals. Summary: Steel,
1963, pp 109-13.
GPO AD-631,581

332, 236

Sci
Jul 67

Effect of Liquid Sodium on Enduring Strength of
Structural Materials, by G. P. Dykova, V. I. Nikitin,
9 pp.
RUSSIAN, per, Strength Steels and Alloys
1968, pp 292-299. 9896278
FTD-17-64-120

Sci - M/M
Mar 65

276,896

Effect of Liquid Sodium on Relaxation of Stresses
in Steel, by V. I. Nikitina, 8 pp.
RUSSIAN, per, Energeticheskoye Mashinostroyeniye,
1963, pp 300-306. 9090297
FTD-TT-63-123

Sci - M/M
Mar 65

276,912

The Structure and Properties of Organic
Glasses, by P. P. Koteko, 11 pp.

RUSSIAN, per, Sbornik, Stroenie Stekla, (1953),
1955, pp 19-25.

Sci Mus Lib Tr 57/1877

Sci - Physics
Nov 57

55, 118

Rayleigh Scattering in Glasses and the Structure
of Glass, by D. I. Levin, 9 pp.

RUSSIAN, per, Sbornik, Stroenie Stekla, (1953),
1953, pp 198-201.

Sci Mus Lib Tr 57/1879

Sci - Physics
Nov 57

55, 119

Investigations of and Methods of Overcoming
Vibrations of Milling Machines in Standard and Climb
Milling, by D. A. Smilovenko, O. V. Zhilinskiy.

RUSSIAN, per, Sbornik Stud Rabot II Izdat.
Ak Nauk Belor Minsk, 1955, pp 29 — 39.

TIL Tr 4847

Sci - Engr
Mar 58

59,192

Questions of the Microstructure of Certain Cheeses. by
G.A. Mikhcheva.

RUSSIAN. per Sb. Stud. Rab. Mosk. Tekh. Inst. Iyasa I
Moloch. Prom.

No. 3. 1957. pp 115-120

NLL 0828.4 1965 (5643)

Sci -

Seg 6

115-120

Zhongolovich, I. D. and Amelin, V. M.
COLLECTION OF TABLES AND NOMOGRAMS FOR
THE PROCESSING OF OBSERVATIONS MADE ON
ARTIFICIAL EARTH SATELLITES, tr. by P. Basu.
Mathematical Tables, v. 12. 1961, 1v.
Order from PP 15

Trans. of mono: [Sbornik Tablit i Nomogramov dlya
Obrabotki Nablyudenii Iskusstvennykh Spurnikov Zemli,
Moscow, 1960, 188p.].

DESCRIPTORS: *Astronomical data, Nomographs,
Tables, *Mathematical analysis, *Satellite vehicles.

(Astronomy--Astrophysics, TT, v. 8, no. 7)

62-17038

- I. Zhongolovich, I. D.
- II. Amelin, V. M.
- III. Title: Mathematical ...
- IV. DSIR NLI. E. 21590
- V. Pergamon Press, Inc.,
New York

Office of Technical Services

1958

Anonymous.

Handbook of specifications on the cooling, refrigeration,
salting, and smoking of fish (Sbornik tekhnologicheskikh
instruktsii po okhlazhdeniiu, zamrazhivaniu, posolu i kopch-
eniiu ryby).

Moskva, Izd-vo Sntrososfuzs. 61p. 1958. In Russian.

X 72 100
100

Conditions for Existence of Universal
Optimal Automatic-Control Systems,
by O. M. Kozlov.
RUSSIAN, per, Sbornik Tekh Kibernet, 1963,
pp 97-103.
*FTD-TF-65-2008

Sci - Eng
Jkn 66

A Collection of Theoretical Works on Aerodynamics,
by A. A. Nikolskiy, 510 pp.

RUSSIAN, bk, Sbornik teoreticheskikh rabot po
aerodinamike, Oborongiz, 1957.

*Pergamon Inst

May 59

Temperature of a Cone in Supersonic Flow With
Consideration of Radiation, by T. N. Sokolova, 10 pp.
RUSSIAN, in: Zhurnal Tekhnicheskikh Rabot po
Aerodinamike, Moscow, 1957, pp 222-229. 9695929
FTD-TT-64-766

Sci - Engr
Feb 65

272,797

Unsteady Boundary Layer Theory, by V. V. Struminskiy,
43 pp.
RUSSIAN, per, Zhurnal Tekhnicheskikh Rabot po
Aerodinamike, 1957, pp 220-232. 9692023
FTD-TT-63-778

Sci - Phys
Apr 64

253,424

Data for Study of the Wolf With Description of a
New Method for Ascertaining Age Variability of
Mammals, by V. G. Geytner, L. G. Turova-Morozova.

Full translation.

RUSSIAN, per, Sbornik Trudov, Vol VII, 1951,
pp 5-14.

Nova Scotia No 201

Scientific - Medicine

Aug 53 CTS

4595

The Selection of a Pump for a Water Jet Propulsor, by
S. A. Parshchik.

RUSSIAN, per, Sbornik Trudov, No 6, 1956, p 123.

Navy 2130/T-104

Navy 21 2414/APL T-104

Sci - Engr

May 59

86, 463

On the Possibility of Printing by the Utilization of
Electric Force, by M. P. Serabryanaya, 21 pp.
UNCLASSIFIED

ENGSTAD, bc, Sbornik Trudov, No 5, 1957, Moscow,
pp 121-122 135.

US JPRS/DC-L-155

USIA
Econ - Printing and Publishing Industry
Apr 58

61, 104

Theoretical Questions in Determining the Production
Capacities of Printing and Publishing Enterprises in
the USSR, by L. M. Khayrta, 8 pp. UNCLASSIFIED

RUSSIAN, in, Sbornik Trudov, No 5, 1957, Moscow
pp 107-112.

US JPRS/DC-L-156

USSR
Econ - Printing and Publishing Industry
Apr 68

601, 401f

Equipment for Simultaneous Recording of Entry of
Water Into the Root System of a Plant, of Trans-
piration and of Changes in the Weight of the Green
Mass, by O. Ivanov,
RUSSIAN, per, Sbornik Trudov Agron Fiz, No 9,
1961, pp 180-187.
CSIRO No 6359

Sci - B/M
Apr 64

257,242

The Performance of Dynamic Systems Near
the Stability Limits, by L. N. Dnshevskiy,
6 pp.

RUSSIAN, per, Sbornik Trudov Ak Nauk
URSS, Inst Elektrotekh, Vol. XIII, 1956,
pp 35-41.

SLA 59-22503

Sci
Mar 62
Vol IV, No 2

188, 252

Tikhonchuk, V. I. and Yampolskiy, N. G.
 HEAT TRANSFER DURING THE CONDENSATION OF
 WATER VAPOR ON A WIRE (OR MIXED WITH AIR) ON
 THE SURFACE OF A VERTICAL PIPE (Teploobme-
 nyeni na kablakh i v smesnykh potokakh
 pri kondensatsii vodnogo para (Gustego i s
 Prikladnaya Mekhanika i na Poverkhnosti Vertikal'noy
 Trubki). [1964] 22 p. (foreign text included) 13 refs.
 (English transl.) 511.015
 Gandy from OLS no. SLA 52.60 61-13032

I. Tolubenskiy, V. I.
II. Yampol'skiy, N. G.
III. DZR 1.11 M. 1658

61-13032

17762.

Trans. of ~~Almaty State Univ.~~ ~~USSR. Inst. Inst.~~
 Topogr. 1944 ~~Normal Trocky~~ 1953 [v. 9] no. 10.
 p. 24-31

Distillation: Water vapor, Condensation, Heat transfer, Pipes.

Research into heat transfer during the condensation of water vapor was conducted on the strand of a vertical evaporator with natural circulation of the condensate. When pure vapor condensed on the outer surface of an (Physics-Thermodynamics, IT, v. 6, no. 4) (over)

Office of Technical Services

Selection of a Pump for a Hydraulic-Jet Propeller,
by S. A. Parobik.

RUSSIAN, per, *Stornik Trudov Ak Nauk Ukrain SSR*,
Laboratoriia Gidravlicheskikh, No 6, 1956,
pp 123-134.

JEU/AFI
TG 230-T104

3cl - Engr

pr 61

145,264

The Principle of Minimum Drag and the Construction
of the Characteristics of the Runner of an Axial-
Flow Fan, by V. N. Yerashov, 21 pp.

RUSSIAN, per, Sbornik Trudov Ak Nauk USSR,
Kiev, Laboratoriya Hidravlicheskikh Mashyn, No 6,
pp 74-85.

SLA 59-42672

Sci
OTB, Vol III, No 8
Apr 61

145,159

On the Formation and Properties of Bulk Masses of
Coke, L. S. A. Volkova.

RUSSIAN, per, Sbornik Trudov ~~Nauchno-Issledovatskii~~
Ordona Trudovogo Krasnogo Znameni Metallurgicheskii
Institut imeni I. V. Stalina, No 33, 1955,
pp 442-448.

Co-op Tr Sch Tr 416

Sci - Chemistry
Mar 58

59,352

Evaluation of Production Indices From Tests on the
Quality of Coke, by Z. A. Volkova.

RUSSIAN, per, ~~Sbornik Tirov~~ ~~Nauchno-tekhnicheskii~~
~~Ordenatrudovogo Krasnogo Znameni Metallurgicheskii~~
Institut imeni I. V. Stalina, No 33, 1955, pp 449-
456.

Co-op Tr Sch Tr 415

Sci - Chemistry
Mar 58

59, 354

Determination of Drawing Forces and Stresses in
Wiredrawing With Back Tension, by A. A. Dinnik,
9 pp.

RUSSIAN, per, Sbornik Trudov Ispytaniy Otdela
Trudovogo Krasnogo Zvezda Metall Inst. Ispyt
I. V. Buzina, No 33, 1936, pp 172-178.

Sci Mus Lib Tr 57/2265

Sci - Physics
Nov 37

55, 131

Some Kinematic Laws of the State of Deformation, by
A. P. Grudov, 18 pp.

RUSSIAN, per, Sbornik Trudov Dnepropet Ordona Trudovogo
Krasnogo Znamenai Metall Inst ISSSI I. V. Stepanov,
No 33, 1956, pp 179-194.

Sci Mus Lib Tr 57/2192

Sci - Physics
Nov 57

55, 132

55, 132

Investigation of the Operation of a Phase-
Comparator, by G. I. Gladyshev, 4 pp.

^r
RUSSIAN, per, Sbornik Trudov Inst Elektrotekh
Ak Nauk UR SSR, No 12, 1955, pp 115-117.

SIA Tr R-677

Sci - Electricity

50,628

Aug 57

On the Defect Indices of Linear Operators in
Banach Space and on Some Geometric Questions,
by M. G. Krein & M. A. Krasnosel'skii.
RUSSIAN, per, Sbornik Trudov Inst Mat AN USSR,
Vol 11, 1948, pp 97-112.
Dept of Navy/ APL/JHS TG 230-1530

Sci/Math
Feb 68

349,547

14 091

GF-1

LYASHCHENKO B. G.

Neutron structure analysis to localize carbon atoms in an
austenite lattice

Neutronen-Strukturanalyse zur Lokalisierung der Kohlen-
stoffatome im Austenitgitter

Sbornik Trudov Inst. Metallov. i Fiz. Met., 6, 378-380 (1959)

German

E u r a t o m

Adopting the Manufacture of Bent Collin,
Profiles of Finned Plate Type Luring
Calibration with Residue of wave
Preparation, by I. S. Trishovskiy,
V. V. Alepanda, et al, 13 pp.
RUSSIAN, per, Sbornik Trudov, Institut
Metallurg, No 9, 1964, pp 240-251.
FI00000367
FID AT 66-361

Sci-Mechanical,
Apr 67

525,070

(PC-5957)

Electrical Irradiation Produced by Natural
Ultraviolet Radiation Under Controlled
Atmospheric Conditions, by D. M. Tyndall, 7 pp.

RUSSIAN, per. Spornik Tsvetov, Institute,
Radiatsionnyy Gigiyena, 1959, pp. 48-55.

JPRS 8745

165, 417

Sci. - 1959
Sup. 61

(DC-5958)

The Effect of Bactericidal Irradiation on
the Virulence of Microorganisms, by R. S.
Mostova, 6 pp.

DK
RUSSIAN, ~~per~~, Sbornik Trudov, Inst
Radiatsionnoy Gigiyeny, 1959, pp 150-157.

JPRS 8724

164,395

Sci - Med
Aug 61

LOSSES IN TURBINE GUIDE VANE CASCADES, BY A. S.
EREMENKO, A. P. FEDOSENKO.

RUSSIAN, PER, SBORNIK TRUDOV INST TEPLOENERGETIKI
AK NAUK URSSR KIEV, NO 14, 1958.

NLL M. 3868

SCI - ENGR

OCT 62

214,788

AN INVESTIGATION OF LOSSES IN TURBINE ROTOR BLADE
CASCADES, BY A. S. EREMEENKO, A. P. FEDOSENKO.

RUSSIAN, PER, SBORNIK TRUDOV INST TEPLOENERGETIKI
AK NAUK UKRSSR KIEV, NO 14, 1958.

NLL M. 3867

SCI - ENGR

OCT 62

214,787

Request translation check

4.6-31C

3762-4-596T

On a simple method of calculating the Laval Nozzle

A. Sh. Dorfman

AN UkrSSR, Institut Teploenergetiki, Sbornik Trudov nr 14

"Teplotekhnika i Mekhanika". Kiev, Izd-vo AN UkrSSR,

1953, 26-31.

Calculation of the Stressed State of an Arch
Dam Caused by the Action of a Lateral Seismic
Load, by V. G. Orekhov
RUSSIAN, per, Inzhenerno-Stroitelnyi Institut,
Moscow. Sbornik Trudov, No 46, 1964, pp 35-47
NTC 71-16601-13M

Feb 72

Clinical-Epidemiological Characteristics of
Rickettsialpox, by R. I. Kiselin, V. M. Zhdanov,
N. K. Aleksandrova, 9 pp.

RUSSIAN, per, Sbornik Trudov Khar'kovskogo Nauch-
Issled Inst Vektov i Sverotok imeni Meshnikova,
Virusnye Infektsii, Vol XX, 1956, pp 253-257.
9045377

NIH 2-3-60

Sci - Med

Mar 60

109,377

Study of the Biological Properties of Ricket-
tsial Strains "Zh" and "Z-M", by T. T.
Lavrushina, R. S. Korshnit, R. I. Kiselev,
10 pp.

RUSSIAN, per, Sbornik Trudov Khar'kovskogo
Nauko-Issled Inst Vektora i Vyvrotok imeni
Mikhailova, Virusnye Infektsii, Vol XI,
1974, pp 239-284. 9046596

NIH 2-6-60

Mar 60
Sci. - Med

109,378

Immunological Study of the Rickettsiae of
Rickettsialpox, by V. M. Zhdanov, R. S.
Korochilt, T. T. Lavrushina, 13 pp.

RUSSIAN, per, Zhurnal Trudov Khark'kovskogo
Nauchno-Issled Inst Vektorn i Svyaznykh Infektsii
Mikrobnaya, Virusnyye Infektsii, Vol XI,
1954, pp 255-271. 9046698

WHE 2-13-60.

Sci - Med

Mar 60

109,375

Cutaneous Reaction in Experimental Rickettsialpox
of the Guinea pig, by R. B. Khrushchik, R. I.
Kiselev, 9 pp.

RUSSIAN, per, Zhurnal Tsvetov Khim'kovskogo Nauch-
Issled Inst Vektin i Syvrotch imeni Mednikov,
Virusnyy Defektit, Vol XI, No 1954, pp 273-278.
904699

MIN 2-15-60

109,380

Sci - Med
Feb 60

Experimental Study of the Pathogenesis of
Pickett's Pox in House Mice, by R. I.
Kiselev, 11 pp.

REKIAN, per, Zhornik Trudov, Khar'kovskogo
Kuch. Issled. Isp. Vektora i Syvorotok imeni
M. Khilova, Virusnye Infektsii, Vol. XX,
1976, pp. 279-284. 9048700

WIK 2-16-60

Eni and

Mar 60

109,379

Epidemiology of Rickettsialpox, by M. I. Levi, R. A.
Kiselev, G. I. Chayeva, L. N. Kislyakova, 13 pp.

RUSSIAN, ^{CIA}Obornik Trudov Khar'kovskogo Nauchno-
issledovatel'skogo Instituta Vaktsin i Sывороток im.
Mashukova, Virusnye Infektsii, Vol IX, 1954,
pp 285-291. CIA 9047526

Sci - Medicine
Apr 60

REC 3-9-60

SLA 60-15738

111,566

Some Problems of the Epidemiology of Cholera
 1961, by H. I. Kiselev, 8 pp.

RUSSIAN, per, Sbornik Trudov Khimicheskogo i Biologicheskogo
 Meditsinskogo Instituta imeni N. I. Pirogova, Vol. XX, 1961, no. 1, pp. 1-8.

11/11/61

11/11/61

11/11/61

The Principle of Minimum Drag and the Determination
of the Characteristics of the Runner of an Axial
Flow Fan, by V. M. Brehov.

UKRAINIAN, per, Shornik Trudov Laboratorii
Gidravlicheskikh Mashin, Ak Nauk Ukrain SSR,
No 6, 1956, pp 74-85.

DSIP LUN K 575

122,562

Sci - Engr

Aug 60

The Hydrodynamics of Gravity Concentration Processes
and the Modelling of These Processes, by E. E.
Rafales-Lamarka.

UKRAINIAN, per, Sbornik Trudov Laboratorii
Gidravlicheskikh Mashin. Ak Nauk Ukrain SSR,
No 6, 1956, pp 142-148.

DSIR LLU RTS 1298

Sci - Engr

Sep 60

125,561

Matrix Method for the Investigation and Synthesis of
Relay Contact Networks, by N. V. Zapletin.

RUSSIAN. per, Sbornik Trudy Leningrad Elektrotekh,
Inst Svyazi, No 3, (33), 1957, pp 143-150.

*TTD-TT-61-265

Sci - electricity, engr

15 Nov 61

The important technological principles of
silicalcite materials, by V. P. Petrov,
O. V. Kuntsevich,
RUSSIAN, per, Sb. tr. Inst. inzh. zhelz. transp.
Leningr., 1959, No 157, pp 3-8
NLL 5196 (1351)

Sci - Cement, concrete
May 67

305,839

60-21173

- I. PL-480 HEW (60-21173)
- II. National Science Foundation,
Washington, D. C.

PROBLEMS OF PSYCHIATRY AND NEUROPATHOL-
OGY, VOL. 1 (Voprosy Psikhatrii i Nevropatologii)
tr. by Jan Szyz. [Dec 61] 375p. 283 refs. PL-480 HEW.
Order from OTS \$3.75 60-21173

Trans. ~~Leningradskoe Nauchnoe Obshchestvo Nevro-~~
~~patologov i Psikhiatrov (Sbornik Trudov USSR)~~ 1958, v. 3.

DESCRIPTORS: *Psychiatry, *Neurology, *Pathology,
*Psychoses, *Infections, *Brucellosis, *Encephalitis
vires, *Mental diseases, *Head injuries, Equine:
encephalomyelitis, Meningitis, *Aschima, Poliomyelitis,
*Neoplasms, *Brain tumors, Hepatolenticular degen-
eration, *Leukemia, *Acoustic nerve, *Aorta, Blood
vessels, *Venereal diseases, *Epilepsy, *Electroen-
cephalography, *Frenum.

(Biological Sciences--Neurology and Psychiatry,
TT, v. 7, (no. 4) (over)

Office of Technical Services

60-21174

PROBLEMS OF PSYCHIATRY AND NEUROPATHOLOGY, VOL. 2, (Voprosy Psikhiiatrii i Nevropatologii) tr. by Zvi Lothane and Jan Syr. [Dec 61] 276p. 169 refs. PL-480 HEW.
Order from OTS \$3.00

60-21174

Trans. of Leningradskoe Nauchnoe Obshchestvo Nevropatologov i Psikhiatrov. Sbornik Trudov (USSR) 1958, v. 4.

DESCRIPTORS: *Psychiatry, *Neurology, *Pathology, Brain, Ataxia, *Tuberculosis, *Meningitis, Muscular atrophy, Autonomic nervous system, *Epilepsy, Injuries, *Poliovirus, *Psychoneuroses, Childbirth, *Therapy, *Shock therapy, Insulin, *Electroshock, Sleep, *Drugs, *Psychoses.

(Biological Sciences--Neurology and Psychiatry, TT, v. 7, no. 4) (over)

- I. PL-480 HEW (60-21174)
PL-480-PST-211
- II. National Science Foundation, Washington, D. C.

Office of Technical Services

(DC-1008)

Characteristics of the Brucellar Bacteriophage
Isolated at the Tbilisi Scientific-Research
Institute of Vaccines and Sera, by M. G.
Pouchkova, M. G. Abashidze, 4 pp.

RUSSIAN, Stornik Trudov Mezhdunarodnogo
Kongressa Bakteriologii, Vol V, 1952,
pp 321-325.

JPRS 6113

127,514

Sol. - 1952
Oct 50

J-686/60

(DC-1241)

The Preparation of Brucella Phage and the
Determination of Some of Its Properties, by
E. G. Mamtsashvili, 5 pp.

RUSSIAN, bk, Sbornik Trudov Mezhnstitutskoy
Nauchnoy Konferentsii Bakteriofagiya, Vol V,
1955, pp 327-332.

JPRS 3858

Sci - Bio

Sep 60

125, 511

The Influence of Chemical Composition and
Admixtures on the Combustion of Fuel in Jet
Engines, by Ia. M. Pashkin, R. V. Sychev,
25 pp.

RUSSIAN, bk, Sbornik Trudov, Mashinostroikiye
Soyuzchaniya Po Khimii Motov, 1960, pp 293-314.
9667389

FID-TT-62-743

Sci - Chem
Jan 63

219551

Effect of Chemical Composition and Additives
on Fuel Combustion in Jet Engines, by Ya. M.
Paushkin, R. V. Sychev, et al.
RUSSIAN, per, Sbornik Trudov Mezhdunarodskogo
Soveshchaniya po Khimii Nefti, Izd-vo Mosk. Univ.,
Moskva, 1961, p 293.
*FTD-MT-64-299

Sci - Fuels
Jul 64

The Use of Extraction Methods in the Analysis of
Certain Ions, by V. N. Polyanskiy.

RUSSIAN, per, Sbornik Trudov Moskovskogo
Vechernego Metallurgicheskogo Instituta, No 1,
1955, pp 143-155.

SEP 65-1110
DSIR LLJ M.935
(loan)

128,770

Sci - Chem

Oct 60

Contribution to the Theory of Formation of the Latent
Electrophotographic Image, by V. M. Fridkin, 10 pp.

RUSSIAN, per, Sbornik Trudov, Nauch-Issled Inst
Poligraf Mashinostroyeniya, No 5, 1992, pp 113-122.

CIA/FDD NX-1175

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

198,436

May 92

UNCLASSIFIED INTERNAL USE ONLY

Mashovetz, V. P. and Lundina, Z. F.
DENSITY OF MIXTURES OF SOME MOLTEN
ELECTROLYTES. [1963] [27]p.
Order from OTS or SLA \$2.60

63-18141

Trans. of mono. Sbornik Trudov Pervoi Vsesoyuznoi
Konferentsii Neorganicheskoi Khimii (All-Union
Conference on Inorganic Solutions (no. 1) [Kiev]
1935, p. 191-212.

DESCRIPTORS: *Electrolytes, Density, Chlorides,
*Fused materials, Mixtures, Electrochemistry,
Statistical data, Graphic analysis.

(Chemistry--Physical, TT, v. 10, no. 11)

63-18141

I. Mashovetz, V. P.
II, Lundina, Z. F.
III. Title: All-Union...

Office of Technical Services

Protection of the Negative Branches of
Thermocouples Against Aging, by A. N.
Vorobin, R. Z. Grinberg.
RUSSIAN, in, Elektr. Trudov 1-go t. s.
Purposo 1 2-go t. s. Vorobin, Sovetskii
pp 123-127, 1963
AEC-TR-6893 9229590

S-1-11-68
Nov 68

290,655

Method of Bridging of Branches of $Bt_2 Te_3$ -
 $Sb_2 Te_3$ and $Bt_2 Te_3$ - $Bt_2 Se_3$ Thermocouples
with Subsequent Heat Treatment, by A. N.
Voronin, R. Z. Grinberg.
RUSSIAN, bk. Stroitel'nyi 1-go G. S. Perovogo
12-go G. S. Voronin Stroitel'nyi 1-go G. S.
Stroitel'nyi 1-go G. S. Voronin Stroitel'nyi 1-go G. S.
ALL-TR-6596

Sci-Phys
Nov 65

290,657

Investigation of the Influence of Ketatin and
Glas Retarders on the Properties of Gypsum
Hemihydrate, by S. A. Krzhendaskiy.
RUSSIAN, per, sbornik Trudov Resp. Nauchno-
Issledovatel. Inst. Mostnykh Stroitel. Mat-
erialov, No 16, 1959, pp 90-99.
ATS RJ-2063

Sci-Materials
Oct 66

313,003

Changes in the Radiosensitivity of Animals
as a Result of Previous X-Irradiation.

by A. I. Mazentsev, G. D. Gubin.

RUSSIAN, rpt. Sb. Tr Sverd Med In-t

Vol XXXIX, 1963, pp 110-116.

*FTD IT 23-886-67

Sci-BM
Jun 67

Pilot-Plant Unit for Electrolytic Tinning of
Steel Strip in Salt Melts, by A. I. Viskin.
RUSSIAN, per, Sb. Tr. Tekhn. Nauchn.
Issled. Inst. Chernol Met. No 28, 1962,
pp 138-145. M. 28, 1962
BISI 4538

Sci-MEM
Jul 66

306,464

Thermoelectric Characteristics of
Metallic Sintered Alloys on a Tungsten
and Molybdenum Base, by
N. I. Svodo-Shvets, Yu. A. Byduk, et al,
18, pp.
RUSSIAN, per, Tsentral'nyy Nauchno-Issled
Institut Chernoy Metallurgii, Sbornik
Trudov, No 30, 1963, pp 7-16.
PND-TT-65-642

Sci-M/11
Aug 65

288,548

Carbide Analysis of a Cast Chromium-Nickel
Alloy, by L. N. Zhdina.
RUSSIAN, per. Sb Tr Izvestiia n-1 Inst Chern Met.
No 32, Pt 2, 1963, pp 103-110.
MLL Ref: 9022.4 (67/249)

Sci-Chem
Aug 68

363,618

Effect of Titanium, Aluminum, Carbon and
Boron on the Structure and Phase
Composition of Ni Base Alloys by
G. B. Chernyak, A. V. Smirnova, et al.
RUSSIAN, per, Trudy Tsentral'nyy
Nauchno-Issledovatel'skiy Institut
Chernoy Metallurgii, Sbornik, 1964,
no 34, pp 51-65.
*FTD-TT-65-1412

Sci-Phys
Sep 65