

Determination of the Density of the Atmosphere
of the Moon According to Information of the
Radio-Emission of the Sun, by G. A. Gurzadyan.

RUSSIAN, per, Iz Ak Nauk Armyanskay BSR, Ser
III Fiz-Matem, Vol X, 1957, pp 55-74.

RAND Corp EM-3456-PB

Sci-Geophys
Jan 63

219,477

Zadayan, M. A.
THERMAL STRESSES IN INFINITE CONCRETE
SLABS WITH CONSIDERATION OF CREEP. [1962]
21p. 7 refs.
Order from OTS or SLA \$2.60 63-10198

Trans. of Akad[emiya] Nauk Armyan[skoi] SSR
[Erevan]. [Izvestiya. Seriya] Fiziko-
Mat[ematicheskikh] Nauk, 1958, v. 11, no. 1,
p. 27-46.

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

The stress condition of an infinite concrete slab is
examined for cases of harmonic variation of the
temperature of the outside air and cooling of the slab
surface.
(Mechanics, TT, v. 9, no. 12)

63-10198

1. Title: Slabs
1. Zadayan, M. A.

Office of Technical Services

Temperature Stresses caused by the Exothermic reaction
of Cement in Flagstone Type Blocks With Consideration
of the Creep of Concrete, by M. M. M. Manukian

RUSSIAN, per, Izv. AKAD. NAUK, ARM. SSR., SER FIZ,
MATEM, NAUK, Vol. XI, No 2, 1958, pp 99-109.

~~SECRET~~

Sci - Phy * PICATINNY ANNUAL (JPRS) 1962
Jan 62

Biography of Viktor Amazaspovich Ambartsunyan, 5 pp.
UNCL

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR, Ser Fiz-
Materat Nauk, Vol XI, No 5, 1958, pp 3-7. 654588

ATIC MCL-41/III

USSR
Bio
Sci-Misc
Jun 60
Telecom 40697

119,323

(DC-4280)

Shock Waves in Thickening Viscous-Plastic Medium,
by V. N. Kukudshanov, 15 pp.

RUSSIAN, per, Iz Ak Nauk Armyan SSR, Ser Fiz-Matemat
Nauk, Vol XI, No 6, 1958, pp 61-71.

JPRS 6103

Sci - Phys

129,073

Oct 60

Radiation of a Relativistic Electron Moving
in a Circle in a Plasma, by N. L. ~~ISSI~~
Ter-Mikayelian, 5 pp.

RUSSIAN, per, Iz Ak Nauk Armianskiy SSR,
Fiz-Matemat Nauk, Vol XII, No 3, 1959,
pp 95-99.

MDF T-149

Sci - *Phys*
Jul 61

161,369

61-12181

Akopyan, A. A.
DIDACTIC REMARKS ON THERMODYNAMICS. [1960]
16p. 7 refs.
Order from MDF \$8.50 MDF A-154

Trans. of A[kademiya] N[auk] Arm[yanskoy] SSR
[Yerevan]. Izvestiya. [Seriya] Fiz[iko]-Matem[ati-
cheskikh] Nauk, 1959, v. 12, no. 5, p. 115-128.

- I. Thermodynamics--Theory
- I. Akopyan, A. A.
- II. MDF A-154
- III. Friedman, Morris D.,
Inc., West Newton, Mass.

109.2.1.

Office of Technical Services

(Physics--Thermodynamics, TT, v. 5, no. 3)

On the Theory of Dynamic Stability of Laminated
Anisotropic Flat Shells, by V. Ts. Gnuni.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR, Ser
Fiz-Matemat Nauk, Vol XIII, No 1, 1960, pp 47-53.

*FTD-MT-62-37
Machine translation

Sci - Phsy

23 Aug 62

On the Theory of Dynamic Stability of Lamellar
Anisotropic Shells, by V. Ts. Giuin.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR, Fiz-Matemat
Nauk, Vol XIII, No 1, 1960, pp 47-58.

*FTD-MT-62-28
MACHINE TRANSLATION

Sci - Phys,

Aug 62

61-12576

Burunsuzyan, E. S.
THRESHOLD OF RELIABLE DETECTION AND
LIMITING SENSITIVITY OF RADIO TELESCOPES.
[1960] [12]p.
Order from MDF 56.50

MDF B-174

Trans. of Akademiya Nauk Armianskoy SSR
[Yerevan]. Izvestiya Seriya Fiziko-Matematicheskikh Nauk, 1960, v. 13, no. 1, p. 141-151.

148,627

- 1. Extraterrestrial radio waves--Detection
- 2. Radio astronomy--Instrumentation
 - I. Burunsuzyan, E. S.
 - II. MDF B-174
 - III. Friedman, Morris D., Inc., West Newton, Mass.

Office of Technical Services

(Astronomy--Astrophysics, TT, v. 5, no. 7)

Bagdov, A. G.
DETERMINATION OF PRESSURE IN A HETEROGE-
NEOUS ELASTIC HALF-SPACE. [1963] 4p. 1 ref.
Order from OTS or SLA \$1.10 63-18754

Trans. of Akademiya Nauk Armyanskoi SSR, Eriuan-
Izvestiya, Seriya Fiziko-Matematicheskikh Nauk
1960, v. 13, no. 2, p. 105-108.

DESCRIPTORS: *Elasticity, *Pressure, Stresses,
Tensor analysis.

(Mechanics, TT, v. 10, no. 12)

63-18754

I. Bagdov, A. G.

Office of Technical Services

Radiation of a Charge Moving Parallel to
the Interface of Two Media, by G. M. Garibyan,
O. S. Margelyan. 11 pp.

RUSSIAN, per, Iz Ak Nauk Armyanskaya SSSR,
Ser. Fiz. Matemat. Nauk, Vol XIII, No 2, 1960,
pp 123-129. 9663470

FTD MCL-1032/1

Sci - Phys

171, p 27

24 Oct 61

The Spreading of the Plastic Zone in an Inhomogeneous Tube Under the Dynamic Influence of Pressure, by M. A. Zadoyan, 9 pp.

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

FED MCL-1114/1 † 2

Sci - Phys

Sep 61

169,293

A Gas-Discharge Stabilizer, by
A. M. Resikyan, Yu. G. Agbalyan, K. A. Madatyan,
5 pp.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSSR,
Ser Fiz-Matemat Nauk, Vol XIII, No 4, 1960,
pp 65-68. 9671172

FED MEL-1063/1

Sci - Engr

171,565

23 Oct 61

On the Theory of the Dynamic Stability of Laminated
Anisotropic Sheels of Revolution, by Zh. Ye.
Bagdasaryan, V. Ts. Gnumi.

RUSSIAN, per, Iz Ak Nauk Armyan SSR, Ser Fiz Matemat
Nauk, Vol XIII, No 5, 1960, pp 27-26.

*FTD MT-62-38
Machine Translation

23 Aug 62

Radiation of a Charged Particle in a Medium
With a Periodically Varying Density, by
A. Ts. Amatuni, N. A. Korshunyan, 13 pp.

RUSSIAN, per, Iz Ak Nauk Armianskoy SSSR,
Ser: Fiz Matem Nauk, Vol XLII, No 5, 1960,
pp 55-64. 96/2409

FTD-TI-61-115

Sci - Phys

180,311

24 Jan 62

The Spectrum of Certain Non-Self-Adjoint
Operators, by R. M. Martirosyan.
RUSSIAN, per, Izvestiya Akademii Nauk
Armyanskoy SSR, Ser. Fiz. Mat.- Nauk, Vol 14,
No 1, 1961, pp 9-19. 9231242
ABC URCL-Tr-10011

Sci/Nuclear Sci
May 66

300,500

Ionization Losses and the Capture of Slow,
Heavy, Negative Particles, by I. I. Gol'dman,
9 pp.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSSR,
Ser Fiz Matemat Nauk, Vol XIV, No 1, 1961,
pp 79-86. 9664290

FID-IT-61-350

Sci - Phys

19 Mar 62

188,312

On Series of Taylor-Dirichlet Series for
Estimating the Growth of the Entire Functions, by
G. L. Lunts, 6 pp. 19682855

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR Fiz-
Mathemat Nauki, Vol XIV, No 2, 1961, pp 7-16.
NLI RTS 2599 on purchase/loan
Navy Tr 3397/NRL 933

Sci - Phys, Math
May 63

230 75

THE TORSION OF ANISOTROPIC PRISMATIC RODS HAVING
A CROSS SECTION IN THE R FORM OF AN ELONGATED
AERO-NAUTICAL PROFILE, BY V. S. SARKISYAN, 31 PP.

RUSSIAN, PER, ^AIZ AK NAUK ~~ARMYANSKOY~~ SSR, SER
~~ELI~~-MATEMAT NAUK, VOL XIV, NO 2, 1961, PP 45-70.
9665957

FTD-TT-62-384

SCI - PHYS
AUG 62

207,995

An Application of Taylor-Dirichlet Series for
Estimating the Growth of the Entire Functions
by G. L. Lunts, 6 pp.

RUSSIAN, per, Iz Ak Nauk Armysanskoy SSR Fiz-
Matemat Nauki, Vol 28 XIV, No 5, 1961,
pp 3-8.

all info will be removed
Navy Tr 3398/NRL 934

Sci - Phys
May 63

230,909

Stability of a Three-Layer Orthotropic Plate
in a Supersonic Gas Flow, by Zh. Ye. Bagdasaryan,
12 pp.

RUSSIAN, per. AN ARSSR, Izvestiya. Seriya Fiziko-
Matematicheskikh Nauk, Vol 14, No 5, 1961, pp 21-
30. P100079568-V
FTD-HT-66-764

Sci-Phys
May 68

356,324

Equations for the Super Density States. I.
Asymptotic Equation of State, by G. S. Saakyan, 10 pp

RUSSIAN, per, Izvest Akad Nauk Armen SSR, Ser Fiz
Mat Nauk, Vol XIV, No 6, 1961, pp 117-123.

AEC-UCL-Tr-911(L)

Sci - Nucl Sci

Jul 63

238,154

Resonance in Forced Nonlinear Oscillations
of Laminar Anisotropic Shells, by
Zh. Ye. Bagdasaryan, V. Ts. Gmuni, 10 pp.

RUSSIAN, per, Iz Ak Nauk Armenyanskoy SSR,
Ser Fiz Matemat Nauk, Vol XLII, No 1,
1961, pp 41-49. 9564209

FID-TP-61-313

Sci - Phys

2 Mar 62

186,275

~~SECRET~~

Superdense State of Matter in the Universe,
by G. S. Sayakyan, 18 pp.
RUSSIAN, paper, Iz Ak Nauk Armyanskoy SSR, Fiz
Matemat Nauk, Vol XV, No 1, 1962, pp 123-135.
9226292
AEC-UCRL-Tr-1114 (L)

Sci-Phys
Jan 65

271,795

63-13055

Abramyan, B. L. and Babloyan, A. A.
ON THE PROBLEM OF AXISYMMETRIC DEFORMATION OF A HOLLOW CYLINDER OF FINITE LENGTH, tr. by George N. Kasachkoff. 7 Nov 62, 17p. 12 refs. [AMC](Redstone) Trans-nr-39-62. Order from OTS or SLA \$1.60 63-13055

- I. Title: Fourier-Dini series
- I. Abramyan, B. L.
- II. Babloyan, A. A.
- III. AMC(Redstone) Trans-39-62
- IV. Army Missile Command, Redstone Arsenal, Ala.

Trans. of Akademiya Nauk Armyanskoi SSSR [Erevan].
Izvestiya. [Seriya Fiziko-Matematicheskikh Nauk]
1962, v. 15, no. 2, p. 87-99.

DESCRIPTORS: *Cylindrical bodies, *Deformation, Elasticity, Load distribution, Stresses, Numerical analysis, Fourier analysis, Series.

The article gives an accurate solution to the axisymmetric problem of the theory of elasticity for a hollow cylinder of finite length, when an arbitrary load is applied to its lateral surface, and normal displacements and tangential stresses are assigned to the ends.

(Author)
(Mechanics, TT, v. 10, no. 4)

Office of Technical Services

The Quasi-Static Problem of a Thin Torqueless
Envelope of Zero Gaussian Curvature Under
Conditions of Non-linear Creep of the
Material, by R. M. Kirakosyan.

RUSSIAN, per, Izvestiya Akad Nauk Arm SSSR,
Seriya Fiziko-Matematicheskikh Nauk, 1962,
Vol 15, No 2, pp 153-159.
NLL RTS 2425 (On Loan or Purchase)

Aug 65

288,823

The Problem of Creep of an Irradiated Rod,
by M. I. Rozovskii.
RUSSIAN, per, Ivestiya Akad Nauk Arm SSSR,
Seriya Fiziko-Matematicheskikh Nauk, 1962,
Vol 15, No 4, pp 55-63.
NLL RTS 2425 (On Loan or Purchase)

Aug 65

288,824

On the Overconvergence of Certain Series, by G.
L. Lunts.

RUSSIAN: per, Izvestiya Akad Nauk Armyanskoi SSR:
Seriya Fiz Matematicheskikh Nauk, Vol 15, No 5,
1962, pp 11-26.

NLL RTS 2642

Sci - Math
Oct 67

342,725

Concerning the Creep of a Spherical
Torqueless Envelope, by R. M.
Kirakosyan.
RUSSIAN, per, Izvestiya Akad Nauk
ArmSSR, Ser Fiz Mate Nauk, 1963,
Vol XVI, No I, pp 55-61.
NLL RTS 2595 (On Loan or Purchase)

Aug 65

286,457

On Nonstationary Forced Vibrations of
Cylindrical Shells, by L. A. Movsisyan,
9 pp.

RUSSIAN, per, Iz Ak nauk ArmSR, Ser Fiz-
Matc Nauka, Vol XVI, No 2, 1963, pp 3-12.

CIA/PDD X-6095

Sci - RPhys

Feb 67

FOR OFFICIAL USE ONLY

317,681

Torsion of Prismatic Bars Composed of
Different Materials, Taking Non-Linear
Creep into Account, by M. M. Manukyan
and V. S. Sarkisyan,
RUSSIAN, per, Izv. Ak Nauk ArmySSR, Seriya
Fiziko-Matemat Nauk, Vol XVI, No 3, 1963,
pp 65-82.
NLL RTS 2734 (On Loan or Purchase)

Sci-Phys
Apr 67

391 618

A Solution for a Boundary Layer Equation, by
L. G. Petrosyan, 8 pp.
RUSSIAN, per, Iz Ak Nauk Arm SSR, Ser Fiz-Mathmat
Nauk, Vol XVI, No 5, 1963, pp 91-98. 9695083
FTD-TT-64-559

Sci - Phys
Nov 64

269,102

The Search for New Sympatholytic Compounds Among
Derivatives of Xylocholins, Brevylinum and Guane-
thidine, by V. M. Avakyan.

RUSSIAN, per. Investiya Akademii Nauk Armysanskoi
SSR, Seriya Fiziko-Matematicheskikh Nauk, Vol 16,
No 6, 1963, pp 11-25.
NLL ETS 3110

Sci-Chem
Nov 67

345.281

Distribution of the Partial Pressures
of Negative Ions in the Positive
Column of a Low-Pressure Discharge,
by A. M. Rezikyan, G. A. Galechyan,
9 pp.

RUSSIAN, per, Iz Ak Nauk ArmSSR, Ser
Fiz-Matemat Nauk, Vol XVI, No 6, 1963,
pp 117-128. 9697762
FTD-TT-65-12

Sci - Elec
Aug 65

267,542

Scattering a Charged Particle, Inter-
secting a Metal Screen, by
L. A. Sedrskyan, 10 p.
RUSSIAN, per, Iz Ak Nauk ANASER,
Ser Fiz-Mate Nauk, Vol XVII, No 1,
1964, pp 113-121. 9698546
FID-TT-65-117

Sci - Phys
Nov 65

291,853

Nonlinear Acoustic Oscillations of a
Cylindrical Shell, by A. S. Vol'mir,
I. G. Kil'dibekov, 8 pp.
RUSSIAN, per, Iz Ak Nauk AN SSSR, Ser Fiz-
Matemat Nauk, Vol XVII, No 5, 1964, pp. 65-70.

TP6000163

FTD-TT-65-1948

Sci - Phys
Dec 66

314,208

Solution of the Problems of Free Fluctuations
of Anisotropic Discs, by L. A. Movsisyan,
V. S. Sarkisyan. p pp.
RUSSIAN, per, Izvestiya AK Nauk ARMSSR Ser
Fiziko-Matematicheskikh NVol 17, No 4, 1964,
pp 48-50. 9700346
FTD-TT-65-890

Sci/Physics

May 66

301,092

ORDER FROM NTC

Plane Problem for an Orthotropic Plate in the
Form of an Annular Sector, by A. A. Babloyan,
V. S. Tonoyan, 19 pp.

RUSSIAN, per, Izvestiya AN ARMBSSR. Seriya
Fiziko-Matematicheskikh Nauk, Vol 17, No 5,
1964, pp 27-42.

AIR/ETD/AM-23-398-69

sci/physics

Longitudinal Shock Along a Cylindrical
Shell, by L. A. Movsisyan, 5 pp.
RUSSIAN, per, Iz Ak Nauk ArmSSR, Ser Fiz-
Matemat, Vol XVII, No 5, 1964, pp 43-46.

U697775

FID-TT-65-362

Sci - Phys
Aug 65

287,550

On the Buckling of Cylindrical Shells Under
Longitudinal Impact, by L. A. Movsisyan, 7 pp.
RUSSIAN, per, Iz Ak Nauk ArmSSR, Fiz-Mate
Nauk, Vol XVII, No 6, 1964, pp 57-64.
CIA/FDD X-5600

Sci - Phys
May 65
FOR OFFICIAL USE ONLY

278,402

Dirac Electron in the Field of a Plane
Electromagnetic Wave, by I. I. Gol'dman,
8 pp.

RUSSIAN, per, Iz AN ARSSR Seriya
Fiziko-Matematicheskikh Nauk, Vol XVII,
No 6, 1964, pp 129-135. P100061267
FTD HT 66-286

Elect and Electrical Engin
Mar 67

320,417

Abstracts of Reports on Geophysics in USSR
by E. S. Dekhteriyev. USSR

RUSSIAN, part, is Ak Nauk Arizyanskoy SSSR, Ser Geol
& Geograf Nauk, VOL 2, No 4, 1957, pp 121-126.

DSIR LLU RFB 1419

(26 1/2 Cl.)

Sci - Geophys
Mar 60

111,087

JET STREAMS OVER THE REGION OF THE ARMENIAN
UPLANDS CLIMATOLOGY, BY H. P. POGOSYAN.

RUSSIAN, PER, IZ AK NAUK ARMYANSKOY SSR, SER GEOL
I GEOGRAF, VOL XXI, NO 2, 1958.

NLL M. 3879

SCI - GEOPHYS

OCT 62

214,777

Oganezov, G. G.
ON THE NEW THEORY OF GLACIATION (O Novoi
Teorii Oledeniya).
V. P. Sokoloff, tr. Nov 63, 8p 9refs
Order from ACI \$5.00 in International Geology Review,
v. 5, no. 11, p. 1432-1439

Trans. of Akademiya Nauk Armyanskoi SSR [Erevan].
Izvestiya, [Geologicheskie i Geograficheskie Nauki]
1962 [v. 15] no. 1, p. 3-15. (Abstract available)

DESCRIPTORS: *Glaciers, Geophysics, Theory.

Periodic glaciations of the Earth, in the ultimate
analysis, are produced by tectonic and not by climatic
factors, specifically by deep-seated ruptures, defor-
mations, imbalances resulting from abyssal volcanism
with their surficial expressions, the consequent
(Earth Sciences--Geology, TT, v. 11, no. 11)(over)

TT-63-17713-11 (p. 1432-1439)

I. Oganezov, G. G.
II. American Geological Inst.,
Washington, D. C.

Office of Technical Services

Principal Structural Elements of the Moon
and the Value of the Geographical and
Geological Methods of Its Study, by Yu. A.
Khodak.

RUSSIAN, per, Iz Akad Nauk Arm SSR, Seriya
Geolog i Geogra, 1963, No 8, pp 11-22.
NIL RTS 2637 (On Loan or Purchase)

Aug 65

288,825

62-18006

Kostanyan, K. A. and Nalchadzhyan, S. O.
METHODS OF MEASURING THE SPECIFIC ELECTRIC CONDUCTIVITY OF MELTED GLASSES (O Metodike Izmereniya Udel'noi Elektroprovodnosti Rasplavlennykh Stekol). [1962] [2]p. (foreign text included) 17 refs.

Order from OTS or SLA \$1.60

62-18006

I. Kostanyan, K. A.
II. Nalchadzhyan, S. O.

Trans. of Akademiya Nauk Armyanskoi SSR [Erevan].
Izvestiya. Seriya Khimicheskikh Nauk, 1958, v. 11,
no. 1, p. 3-11.

DESCRIPTORS: *Glass, Melting, Electrical conductance, Measurement.

Suggested methods for measuring the specific electric conductivity of melted glasses include (a) sounding methods, which practically eliminate the influence of the electrode voltage decline and which permit the
(Materials--Ceramics, TT, v. 9, no. 2) (over)

Office of Technical Services

Investigations in the Field of Benzoluran
Derivatives, by A. L. Midzhoian,
RUSSIAN, per, Izv. Ak Nauk ArmySSR, Seriya
Khim. Nauk, No 1, 1958, pp 45-50.
NLL KTS 3577
(On Loan or Purchase)

Sci-Chem.
Apr 67

324,067

Colorimetric Determination of Rhenium in the
Presence of Molybdenum, by V. M. Tarayan,
L. G. Mushegyan.
RUSSIAN, per, Iz Ak Nauk Arinyanskoy SSR,
Khim, Nauk, No 6, 1958, pp 397-408.
GB/4/T/1570

Sci - Mat/Met
Jul 64

262,592

Dangyan, M. T. and Mesropyan, E. G.
OXIDATION OF ALKYL- β -CHLORALLYLACETIC
ACID WITH HYDROGEN PEROXIDE IN AN ACETIC
ACID MEDIUM, COMMUNICATION I (Okislenie
Alkil- β -Khloralililuksusnykh Kislot Perekis'yu Vodoroda
v Srede Uksusnoi Kisloty). [1962] 6p. (foreign text
included) 5 refs.

Order from OTS or SLA \$1.10 63-10750

63-10750

I. Dangyan, M. T.
II. Mesropyan, E. G.

Trans. of Akademiya Nauk Armyan[scoi] SSR [Erevan].
Izvestiya Seriya Khimicheskikh Nauk, 1961,
v. 14 [no. 2] p. 147-149.

DESCRIPTORS: *Alkyl radicals, Chlorine compounds,
*Allyl radicals, *Acetic acids, Oxidation, *Hydrogen
peroxide.

By oxidizing alkyl- β -chlorallylacetic acid with hydrogen
peroxide in acetic acid medium, the corresponding
(Chemistry--Organic, TT, v. 10, no. 1) (over)

Office of Technical Services

Behavior of the Methyl Peroxide Radical in the
Low-Temperature Oxidation of Methane, by A. A.
Mantashyan, R. I. Moshkins, et al, 13 pp.

RUSSIAN, per, Izvesti Akad Nauk Armyan SSR, Khim
Nauki, Vol XIV, No 3, 1961, pp 185-195. 9207224

ALL INFO IN (U, S, S, R)
(1/1/63)

AKRE, Barwell/
NY Tr-972

Sci. - Mat & Met

232,229

May 63

Investigations of the Mechanism of Retarding
the Evaporation of Water Through a 1-hexa-
decanol Monolayer, by T. V. Krmoyan,
R. K. Pogosyan.
RUSSIAN, per, Izv Ak Nauk ArmSSR, Khim Nauk,
Vol 16, No 2, 1963, pp 97-116.
NTC-69-13193-07D

Sci-Chem
Sept 69

391,687

Experiment in the Application of Surface-Active
Substances of Domestic Production to Decrease
Evaporation from the Water Surface in Reservoirs,
by A. K. Ananyan.

RUSSIAN, per, Akademiya Nauk Armyanskoi SSSR,
Izvestiya, Seriya Tekhnicheskikh Nauk, Vol 16,
No 2/3, 1963, pp 117-128.
NTC 71-16615-13B

Mar 72

Complex Treatment of Sodium Chloride,
by M. G. Manvelyan. 5p.
RUSSIAN, per, Izvestiya Akademiya Nauk
Armyanskoi SSR, Erevan Seriya Khimicheskikh
Nauk, Vol 17, No 5, 1964, pp 573-576.
TC-1399

chem
Sci-~~Sci~~
Jul 66

307,612

Effect of Polar and Nonpolar Liquid
Additions on Lowering Evaporation of
Water Through a Monolayer of 1-Hexadecanol,
by T. V. Krmoyan
RUSSIAN, per, Akademiya Nauk Armyanskoi SSR,
Izvestiya. Khimicheskie Nauki, Vol 17, 1964,
pp 587-590
NTC 71-15339-07D

mar 72

61-19237

Karapetyan, B. K.
RESULTS OF SEISMOMETRIC OBSERVATIONS
DURING MASS EXPLOSIONS (Resul'taty Seismo-
metricheskikh pri Massovykh Vzryvakh) tr. by Ivan
Mittin 1960 [14]p. 2 refs.
Order from LC or SLA mi\$2.40, ph\$3.30 61-19237

Trans. of Akademiya Nauk Armyanskoj SSR
[Yerevan]: Zvestiya, Seriya Tekhnicheskikh Nauk,
1957, v. 10, no. 3, p. 21-34.

Results are discussed of the observations of mass
explosions in 1955-56 in various areas (Maralik,
Dtmashen, Dvin, Talish, and the Tokhmakhangel'sk
pit) of the ASSR. As a recording device, the portable
pendulum seismometer AIS-2 with free oscillations
was used; periods of horizontal oscillations were
0.05: 0.1, 0.2, 0.4 sec, and vertical -- 0.05, 0.1,
0.2 sec with the logarithmic damping decrement
of 0.2-0.4 which is an approximate model-scale for
buildings and structures of the same characteristics.
(Earth Sciences--Seismology, TT, v. 5, no. 12) (over)

1. Seismic waves--Analysis
 2. Explosions--Physical effects
- I. Karapetyan, B. K.
 - II. Geological Survey,
Denver, Colo.

160931

Office of Technical Services

(1962-H)

On the Development of Solar Engineering in
the Armenian SSR, by K. Kh. Vernishev, 6 pp.
UNCL

RUBIN, per, Investiya Akademi Nauk Armyanskoy
SSR, Seriya Tekhnicheskikh Nauk, Vol XI, No 4,
Yerevan, 1958, pp 69-74.

US JPRS 1110-N

~~SECRET~~

Sci - Engineering
Feb 59

80,593

Elements of Automatic Tracking Equipment of the
Solar Thermopower Station (STS) by Ya. T. Shermazanyan
R.R. Aparisi.

RUSSIAN, per, Iz Akademi Nauk Arm SSR, Ser Tekh
Nauk, Vol XIII, No 1, 1960, pp 57-70. 9661843.

ATTC MCL 780/1-2

Sci - Space Res
Jun 61

155,544

First Investigations in the USSR on the Control
of Evaporation, by I. V. Egyazarov, 4 pp.

RUSSIAN, per, Iz Ak Nauk Armysnskoi SSR, Ser Tekh
Nauk, No 6, 1960, pp 11-13.

MLL Tr Bul
Vol 3, No 7, 1961

Sci - Geophys

180.026

Jan 62

POSSIBILITY OF SIGNIFICANT ECONOMY OF WATER
RESOURCES FOR NATIONAL ECONOMY AND A MONOMOLECULAR
FILM FOR COMBATING EVAPORATION FROM THE SURFACES
OF RESERVOIRS AND LAKES (REPORT 3), BY I. V.
EGIAZAROV.

RUSSIAN, PER, IZ AK NAUK ARM SSR, SER TEKH NAUK,
VOL XIV, NO 2, PP 7-11, 1961.

DEPT OF INTERIOR
TC823 A358 NO 394

USSR - ECON
SIC 4. GEOPHY S
SEPT 62

209,582

Experiments on the Use of Nonomolecular
Films for the Purpose of Reducing Evapora-
tion Conducted on the Shore of Lake Sevan,
by V. S. Makarova, A. M. Mkhitarian, 39 pp.
RUSSIAN, per, Iz Ak Nauk Armyans SSR,
Ser Tekh Nauk, Vol XIV, No 3, 1961, pp 43-57.
CPSTI TT-64-19351

Sci - Agri
Jul 66

305,349

СОВЕТСКИЙ СОЮЗ
МИНИСТЕРСТВО НАУКИ
И ВЫСШЕГО ОБРАЗОВАНИЯ
АКАДЕМИЯ НАУК СССР

Some models of radiation damage in non-
conducting crystals

A Ye Kly, S V Starodubtsev

AN SSSR, Izvestiya Ser. Tkh. nauk, no 3, 1963,
11-13

in coll. v.
20 no 67

Effect of Large Range Sediment Mixtures and Self-Pavement of Beds on the Movement and Discharge of Sediments, by I. V. Yegiyazarov, 20 pp.
RUSSIAN, per, Izvestiya AN Armyanskoy SSR, Seriya Tekhnicheskikh Nauk, Vol 17, No 2, 1964, pp 29-44.
NTIS TT 70-57226

May 71

63-23114

Zuikov, V. N.
SPECTROPHOTOMETRY OF SOLAR PROMINENCES
(Spektrifotometriya Solnechnykh Protuberantsev) tr. by
John Miller. Apr 57 [40]p. 47 refs. AmMetSoc-T-R-100.
Order from OTS or SLA 53,60 63-23114

- I. Zuikov, V. N.
- II. AmMetSoc-T-R-100
- III. American Meteorological Society, Boston, Mass.
- IV. Contract AF 19(604)1936

Rough draft trans. of Astronomicheskaya Observa-
toriya [Pulkovo] Vestiya (USSR) 1956 [v. 20, no. 2]
(155) p. 22-45.

DESCRIPTORS: *Solar flares, Hydrogen, Helium,
Calcium, Electron density, Atoms, Excitation, Tem-
perature, Astronomical data, Measurement, Proc-
essing, Spectrophotometers, *Spectrographic data,
Astrophysics.

The results are examined of measuring the equivalent
width of seven lines of the Balmer series, H and
KCa⁺, and the series He 5876, 4472 and 4026 lines of
the spectra of 30 prominences obtained during the three
(Astronomy--Astrophysics, TT, v. 10, no. 5) (over)

Office of Technical Services

The Determination of the Relative g.f. ~~YMHX~~ Values
for Nickel by the Emission Method, by L. A.
Mitrofanova.

RUSSIAN, per, Iz Astronomicheskaya Observatoriya Pulkovo, Vol XXI, 1960, pp 185-189.

*PL-480
OTS 63-11135

PST-897
Sci
Jan 63

Experimental Determination of Oscillator Strengths of
the Lines of Lead by the Absorption Method, by
M. Z. Khokhlov.

RUSSIAN, per, Iz Krymskaya Astrofizicheskaya
Observatoriya, Vol XXII, 1960, pp 118-127.

*PL-480
OTS 63-11135

PST-899
Sci

Jan 63

63-15081

Khaikin, S. E., Kaidanovskii, N. L. and others.
THE LARGE RADIO TELESCOPE AT PULKOVO, tr.
by J. L. Zygielbaum. 30 Jan 62 [60]p. 22 refs. JPL
Trans. 25; NASA N62-10819.
Order from OTS or SLA \$5.60

63-15081

Trans. from Astronomicheskaya Observatoriya,
Pulkovo, Izvestiya (USSR) 1960 [v. 21, no. 5(164)].
Another trans. is available from OTS or SLA \$3.60 as
61-16113 [1961] [34]p.

DESCRIPTORS: *Telescopes, Radio equipment, Radio
astronomy, Design, Construction, Tests, Resolution,
Reflectors, Antennas, Microwave equipment.

The telescope consists of a range of flat reflecting
elements which form a polyhedral surface tangential to
an elliptic cone surface. The reflector transforms the
plane wave into a cylindrical wave with a vertical axis,
(Astronomy, TT, v. 9, no. 5) (over)

I. Khaikin, S. E.
II. Kaidanovskii, N. L.
III. JPL Trans-25
IV. NASA N62-10819
V. Jet Propulsion Lab.,
Calif. Inst. of Tech.,
Pasadena

Office of Technical Services

The value in the sensitivity of a biological
 material with the aid of supplementary
 light illumination in the photographing
 of artificial satellites of the Earth, by
 N. I. Breyda and A. A. Markelova, 12 pp.
Trudy Vsesoyuznogo Nauchno-Issledovatskogo
 Instituta Kosmicheskoy Geografii, No 11, 1968,
 pp 167-174. 997055
 DTIC 1-64-1134

E. I. Breyda

A. A. Markelova

1968-0113
Jan 68

007,450

The Investigation of the Pulkovo
Polarimeter and ASI-4 Chamber, by
Ye. K. Kokhan, 17 pp.
RUSSIAN, per, Iz Ak Nauk SSR, Astron
Observatoriya, Vol XXIII, No 5, 1964,
pp 86-92. PI00060966
FTD-TT-65-1095

Sci - Elec & Elec Engr
Oct 66

312,860

Effects of Chromatic Astronomical Refraction
on the Guiding of a Long Focus Telescope,
by O. A. Mel'nikov, G. G. Lengauer, et al, 48 pp.
RUSSIAN, per, Izvestiya Astronomicheskaya
Observatoriya, Vol XXIII, No 5, 1964,
pp 121-143. P100064467-V
FTD HT 66-184

Sci-Navigation
Mar 67

320,767

possibilities of Utilizing
Photoelectric and Television Methods for
Combating Noise From Atmospheric Turbulence
During Astronomical Observations, by
N. F. Kuprevich. 30, pp.
RUSSIAN, per, Iz Astronomicheskaya
Observatoriya, Pulkovo, Vol XXIII, No 5,
1964, pp 144-154. P100064467-V
FTD HT 66-184

Sci-Navigation
Mar 67

320,768

Variability of the Astroclimate, by
G. I. Bol'shakova, Sh. P. Darchiya,
14 pp.
RUSSIAN, per, Iz Astronomicheskaya
Observatoriya Pulkovo, Vol XXIII,
No 5, 1964, pp 155-161. P100064467-V
FTD HT 66-184

Sci-NAVigation
Mar 67

320,769

Fast, Wide Angle Telescope of Large
Diameter, by T. S. Belorossova,
D. D. Maksutov, et al, 10 pp.
RUSSIAN, per, Iz Astronomicheskaya
Observatoriya Pulkovo, Vol XXIII,
No 5, 1964, pp 162-166. P100064467-V
FTD HT 66-184

Sci-Navigation
Mar 67

320,770

61-18069

I. Belen'kii, M. S.
L. Kovaleva, L. I.

Belen'kii, M. S. and Kovaleva, L. I.
APPLICATION OF THE METHOD OF UNIMOLECULAR FILMS TO INVESTIGATION OF THE CHEMICAL STRUCTURE OF POLYNAPHTHENIC ACIDS. [196:] 7p. 13 refs.

Order from OTS or SLA \$1.10

61-18069

Trans. of Akademiya Nauk Azerbaidzhanskoi SSR [Baku]. Izvestiya, 1936, no. 28, p. 25-32.

DESCRIPTORS: Naphthenic acids, Acids, Molecular structure, Monomolecular films, Films.

(Unannounced)

Office of Technical Services

Aliev, Sh. B.
DESULFURIZATION OF KALA OIL. [1961] 2p.
6 refs.
Order from OTS or SLA \$1.10 61-18233

Condensed trans. of Akademiya Nauk Azerbajdzhanskoi
SSR [Baku]. Izvestiya, 1938, no. (7) p. 75-79.

DESCRIPTORS: Petroleum, Desulfurization, Sulfur,
Separation.

61-18233

I. Aliev, Sh. B.

(Unannounced)

Office of Technical Services

Belen'kii, M. S. and Kovaleva, L. I.
PHYSICO-CHEMICAL CHARACTERISTICS OF
LUBRICATING OILS. [1961] 10p. 32 refs.
Order from OTS or SLA \$1.10 61-18098

Trans. of Akademiya Nauk Azerbaidzhanskoi SSR
[Baku]. Izvestiya, 1938, no. (?) p. 133-150 (some
sections summarized).

DESCRIPTORS: *Lubrication, *Oils,

(Unannounced)

61-18098

I. Belen'kii, M. S.
II. Kovaleva, L. I.

Office of Technical Services

Kovaleva, L. I. and Tevosov, S. P.
CHEMICAL STRUCTURE OF NAPHTHENIC ACIDS.
[1961] 5p. 1 refs.
Order from OTS or SLA \$1.10 61-18070

Trans. of Akademiya Nauk Azerbaidzhanskoi SSR
[Baku]. Izvestiya, 1938, no. 55, p. 167-174.

DESCRIPTORS: Naphthenic acids, Acids, Molecular
structure.

(Unannounced)

61-18070

I. Kovaleva, L. I.
II. Tevosov, S. P.

Office of Technical Services

The Causes of Differences in Radial and Tangential
Shrinkage of Wood, by K. M. Khanmamedov.

RUSSIAN, per, Iz Ak Nauk Azerbaidzhan SSR,
No 8, 1954, pp 89-94.

CSIRO 3623

Sci - Biol

Feb 62

186,664

An Investigation of the Catalytic Activity and Structural Characteristics of Silica-Magnesia-Alumina Catalysts, by Z. G. Zul'fugarov, K. V. Topchieva, 21 pp.

RUSSIAN, per, Iz Ak Nauk Azerbaydzhan SSSR, No 7, 1955, pp 3-25. (337742)

Assoc Tech sy

ATS/RJ-706

54, 431

Sci - Chemistry
Oct ± 57

Bright Solar Flocculi in K (CA II) Lines, by
A. A. Ismaylov, 9 pp.

RUSSIAN, per, Iz Ak Nauk Azerbaydzhanskoy SSR,
No 8, 1955, pp 11-15.

ATIC MCL-230/III

Sci - Astron

Dec 60

134,596

Recomposition of Nikolai Brinton (Frooyal and
Sokol. Mikhalev), by N. E. Fidler, T. G. Fidler
A. E. Saltanov, 55 pp. GROSS/INC

RUSSIAN, par, Is Ak Nauk Azerbaydzhan SSR,
No 2, 1956, pp 12-27.

Sci Hqs Kkb 58/1500

SLA K-3061

Sci - Chemistry
Mar 59

92 265

Organic Substances in the Cretaceous Beds of
North Kobystan, by I. K. A. Ismailov.

RUSSIAN, per, Iz Ak Nauk ~~SS~~ Azerbaydzhanskoy SSR
No 3, 1957, pp 87-95.

24A 60-534E

Dept of Interior
US Geological Survey
Denver Branch Lib,
Denver, Col.

Sci - Geophysics
Jan 61

136,059

62-22205

Mirzoeva, L. M.
DETERMINATION OF SOLID PHASE CONCENTRATION IN A TWO-PHASE MEDIUM IN UPWARD MOTION IN A VERTICAL TUBE. Oct 61, Sp. 4 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Akad[emiya] Nauk Azerbaidzhan[skoi] SSR [Baku]. Izvesti[ya] 1957, no. 9, p. 11-19.
Another trans. is available from ATS \$11.00 as ATS-38N50R [1962] 8p.

DESCRIPTORS: *Phase studies, Solids, Equations of state, Heat transfer.

(Physics--Thermodynamics, TT, v. 8, no. 8)

I. Mirzoeva, L. M.
II. International Chemical Engineering, New York

ATS-38N50R

Office of Technical Services

(10-2104).

Output Device of a General Purpose Digital Computer
Using Magnetic (Ferrite) Elements, by Yu. A.
Makshakov, 23 pp.

RUSSIAN, par, Iz Ak Nauk Azerbajdzhanskoy SSR, No 6,
1958, pp 23-34.

JPRS-1047-D

Sci - Engr
Dec 59

102,261

The Conductivity of the p-n Junction of
Selenium Rectifiers for Strong Fields
and Various Temperatures, by H. Aliyev,
G. Abdullayev, B. Mirzoyev, 14 pp.

^d
RUSSIAN, per, Iz Ak Nauk Azerbaydzhan SSR,
Vol XV, No 1, 1958, pp 37-45.

SLA 60-23622

Sci
Vol IV, No 9
Mar 62

187, 214

Investigation of Luminescence Spectra of
Oil Fractions of Petroleum, by Kh. I.
Mamedov, 12 pp.

RUSSIAN, per, Is Ak Hawk Azerbaydzhan SSR,
Vol IV, No 1, 1958, pp 49-63.

ATB-33039R

Sci
Vol IV, No 11
Jun 62

199, 234

Effect and Results of Ionizing Radiations of
Cobalt-60 on the Growth, Development, and Yielding
Capacity of Cotton, by R. E. Yeyabov.

RUSSIAN, per, Iz Ak Nauk Azerbaydzhan SSR, no 5,
1959. pp 28-39. CIA 9057401

USDA

Sci - Chem

Aug 60

122,946

Effect of Concentrated Salt Solutions on the
Physiology of Swelling and Germination of
Seeds of Some Ligneous and Scrub Plants,
by S. Alekparov.

RUSSIAN, per, Ak Nauk Azerbaidzhanskoi SSR,
Izvestiya, No 1, 1961, pp 15-23.

CSIRO/No 6069

Sci-Biol & Med Sci
Mar 63

225,376

(SF-1878)

DISCUSSIONS OF GEOLOGICAL AND GEOGRAPHICAL
PAPERS BEFORE VARIOUS CONFERENCES, BY
E. N. SHIMOLINSKIY, V. N. ALIVET, 3 PP.

RUSSIAN, PER, IZ AK NAUK AZERBAIDZHAN SSR,
NO 3, 1962, PP 93-95.

JPRS 12413

SCI
MISC
FEB 62

182,961

On the Calculation of the Effective
Efficiency (E.Q.E.) and Quantum Work Function of
Photovoltaic Cells Under the Influence of
Penetrating Radiation, by M. A. Talibi, G. B.
Abdullayev, 6 pp.

RUSSIAN, per, Iz Ak Nauk Azerbaydzhanskoy SSR,
Baku, Vol XV, No 3, 1958, pp 201-205.

SLA 60-17370

129,446

Sci
OTS, Vol IV, No 3
Oct 60

Some Problems Concerning the Determination of a
Drainage Module and of Inter-Drain Distances in
Reclamation Areas With Saline Soils and Sub-Soils,
by A. Bekhbudov.

RUSSIAN, per, Ak Nauk Azerbaijanian SSR, Izvestiya,
Seriya Biol i Med Nauk, No 4, 1960, pp 105-112.

⌘
CSIRO/No 5794

Sci
Jan 63

Alekperov, S. A.

THE EFFECT OF CONCENTRATED SALT SOLUTIONS ON THE PHYSIOLOGY OF SWELLING AND GERMINATION OF SEEDS OF SOME LIGNEOUS AND SCRUB PLANTS (Vliyanie Kontsentrirrovannykh Rastvorov Soli na Fiziologiyu Nabukhaniya i Vskhozhest' Semyan Nekotorykh Drevesnykh i Kustarnikovykh Rastenii) tr. by W. Hall [1962] [23]p. (foreign text included) 13 refs. [CSIRO] Trans. no. 6069.

Order from OTS or SLA \$2.60

63-13239

Trans. of Akademiya Nauk Azerbaidzhanakoi SSR, Baku, Izvestiya Seriya Biologicheskikh i Meditsinskikh Nauk, 1961, no. 1, p. 15-23.

DESCRIPTORS: Salts, Solutions, Physiology, Salinity, *Fertility, *Seeds, Plants (Botany), Growth, Soils, *Absorption (Physiology).

(Biological Sciences--Botany, TT, v. 10, no. 7) (over)

63-13239

- I. Alekperov, S. A.
- II. CSIRO Trans-6069
- III. Commonwealth Scientific and Industrial Research Organization (Australia)

Office of Technical Services

Systematics of Bloodsucking Midges of the
Genus *Leptoconops* Skuse in Transcaucasia
and a Description of New Species, by
Sh. M. Dzhafarov, 10pp.

RUSSIAN, per, Izvestiya Akademiy Nauk
Azerbaidzhanskoi SSR. Seriya Biologicheskikh
Meditsinskikh Nauk, no 1, 1961
pp. 67-76.

CFSTI TT 69055078

Sci/b&m
May 70

The Fauna of Bloodsucking Heleidae of the
Genus Culicoides Latr. in the Alazan
Valley of Azerbaidzhan, by
Sh. M. Dzhararov, 5pp.
RUSSIAN, per, Investiya Akademiy Nauk
Azerbaidzhanskoi SSR, Seriya Biologi-
cheskikh i Meditsinskikh Nauk no. 2
1961, pp. 73-76.
CFSTI TT 69-55078

Sci/b&m
May 70

Effect of the Developmental Conditions on the
Dynamics of the Formation and Shedding of the
Seed Pods in Cotton, by K. Aleskerov.
RUSSIAN, per, Iz Ak Nauk Azerbaydzhan SSR
Biol i Med Nauk, Vol X, 1961, pp 55-66.
CSIRO/No 6662

TT-64-19547

Sci - Biol/Med
Jun 64

258,386