

40

Introgressive Hybridisation in the Flora of the  
Baikal Area of Siberia, by E. G. Bobrov.  
RUSSIAN, per, Botanicheskii Zhurnal, Moskva,  
Vol 46, No 3, 1961, pp 313-327.  
\*CSFTI TT 68-90396/2

*E. G. Bobrov*

Sci/B & M  
Feb 68

Changes of the Climate at Dams (Bulgaria), by K.  
Korov, I. Borov, 7 pp. UNCLASSIFIED

BULGARIAN, bimo per, Priroda, Vol VI, No 3, Sofia,  
May/Jun 1957, pp 85-88.

US JPRS/NI-L-201

EE - Bulgaria  
EE Geog  
May 58

24,221

NY-1859

The Chepinsko Basin, by Ivan B. Borov, 11 pp.

BULGARIAN, mimeograph, Priroda, Vol VI, No 4,  
Sofia, ~~Sept~~ Jul-Aug 1957, pp 87-90.

US JPRS/NY-L-474

REur  
Geo  
Dec 58

70,642

Hydrological and Ice Conditions of the Barents  
Sea in 1964, by L. I. Borovaya, 7/  
RUSSIAN, per, Materialy Sessiy Uchenogo Soveta  
PINRO po Rezul'tatam Issledovaniy, No 6,  
1964, pp 58-64.

\*Dept of Interior  
Fish and Wildlife Service  
Bureau of Commercial Fisheries

*L. I. Borovaya*

Sci-Ear Sci  
Jun 67

The Influence of Polyethylsiloxane Fluid on  
the Properties of Motor Oils, by  
I. P. Blagovidov, M. S. Borovaya.

RUSSIAN, per, Khimiya i Tekhnologiya Topliv i  
Masel, Vol VIII, No 6, 1963, pp 52-57.

OT 7502

Sci - Chem  
Jan 64

248,515

- A. A Cryoscopic Method for the Quantitative Determination of Arenas (Aromatic Hydrocarbons) in Petroleum Oils in Cyclohexane Solution, by M. D. Tilicheyev, M. S. Borovaya, V. S. Duk, 4 pp.

RUSSIAN, bimo per, Zhur Anal Khim, Vol XI, No 2, Mar/Apr 1956, pp 188-192. CIA 9001312 C, Reel No 55

Consultants Bureau

Sci - Chemistry

40, 831

V  
Investigation of the Corrosive Properties of  
Avtols, by S. E. Kreyn, M.S. Borovaya, 5 pp.

RUSSIAN, monograph, Investigation and Use of  
Petroleum Products, Gostoptekhezdat, Moscow- Lenin-  
grad, 1950, pp 154-156 and Table of Contents,  
pp 328-329. AF-646764. Encl to IR-1045-56, 1  
18 Jan 1956. CIA D-399729. (AFON-IAL)

AF-723286

USSR  
Scientific - Fuels

32,920

Apr 56

A Laboratory Study of the Antioxidation Effectiveness of Motor-Oil Additives, by K. S. Ramaya, M. S. Borovaya, et al, 8 pp.

RUSSIAN, bk, Prisdki k Maslan i Toplivan, Gostoptekhnizdat, Moscow, 1961, pp 269-272.  
8679790

FTD-TT-62-1324

Sci-Chem  
Mar 63

22<sup>4</sup> 713



The Influence of Admixtures on the Property of  
Diesel Oil, by N. G. Puchkov, M. S. Borovaya.

RUSSIAN, no par, Neft Khoz, Vol XXXIII, No 6,  
1955, pp 63-72.

~~Technical and Commercial Tr~~

Scientific - Fuels

Jan 56 CTS/DEX  
30, 7/7

Effect of the Chemical and Fractional Composition  
of Oils on Their Viscosity Temperature Properties,  
by S. E. Kreyn, M. S. Borovaya, 14 pp.  
UNCLASSIFIED

RUSSIAN, per, Khim i Tekh Top 1 Masel, No 9, 1957,  
pp 11-20, Encl to IR-1178-58, AFCIN-1A1.

AF 1164313

Sci - Fuels  
Apr 58

61,199

Investigation of Ultrasonic Processes of Carbon Dioxide  
Gas as Targets for Charge Exchanges of Ions,  
by H. S. Baryshev, P. I. Buzid, et al, 19 pp.  
RUSSIAN, rpt, Khar'kov, 1968. 9228773  
ANC-11CRL-Tr-1104(L)

p-34

Sci-Phys  
Feb 69

273,203

(FDD 28151)

Ganglionic Blocking Agents II\* Bisquaternary  
Salts Derived From 1, 5-Diamino, 3-Thiapentane,  
by M. Borovicka, M. Protiva, 8 pp.

CZECH, no per, Chemické Listy, Vol XLVIII-~~XLIX~~  
(78), No 9, Prague, Sep 1954, pp 1374-1377.

CIA/FDD U-8759

39,665

EEur - Czech  
Sci - Medicine  
Oct 56

Synthetic Analogs of Curare Alkaloids VII. Two  
New Models of Tubocurarine and Two Other Bis-  
Quaternary Ammonium Salts, by Miroslav Protiva,  
Milos Borovicka, Lexa Cimler, Zdenek Sedivy, 12 pp.

CZECH, per, Chem Listy, Vol L, No 12, Prague,  
1956, pp 1988-1994.

US JPRS/DC-L-970

Sci - Chemistry

75,767

Physical and Perceptual Identifications  
of Czech Vowels, by B. Borovickova. 17p.  
Czech, par. Slaboprosty Obzor, Vol 10,  
No 4, 1964, pp 262-266. P 10000366  
PID-27-67-36

*B Borovickova*

Sci-Behavioral & Soc Sci  
Jan 67

316,374

129  
Investigation of the Process of Heat  
Transfer and Pressure Drop in Coil-Pipe  
Counterflow Heat Exchangers. by  
Borovich, Mikhailov.

RUSSIAN, per, Ukrains'kyi Fiz Zhur.  
Vol 18, 1964, pp 749-756.

\*RUC

SEC Mar 1966

*Borovich*

Sci-Phys  
Page 66

Construction of a Practical Temperature Scale in  
the Range 10-90 K, by A. S. Borovik, Romanov, et al.

RUSSIAN, per, Izmeritel Tekh, Vol XII, 1959, p 28.

DSIR LLU M.1823  
(loan)

Sci - Phys

Oct 60

*128,825*



Concerning the Application of a High-Frequency Generator to the Quantitative Spectral Analysis of Solutions, by C. A. Borovik, T. P. Borovik-Romanova, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXIII, No 4, 1959, p 683. (1950 ?)

SLA 60-19920

Sci  
Vol IV, No 8  
23 May 62

196,922

61-23323

Borovik, E.  
FORMULA FOR THE THERMAL CONDUCTIVITY  
OF LIQUIDS. [1961] 3p. (2 tables 1 diag. omitted)  
19 refs. [DSIR LLU] M. 2745.  
Order from OTS or SLA \$1. 10

61-23323

Unedited trans. of [Zhurnal Obshchei Khimii] (USSR)  
1948, v. 18 [no. 1] p. 48ff.

DESCRIPTORS: \*Liquids, \*Heat transfer, Conductivity,  
Liquefied gases.

The proposed formula is omitted in the present trans-  
lation.

(Physics--Thermodynamics, TT, v. 6, no. 12)

I. Borovik, E.  
II. DSIR LLU M. 2745

Office of Technical Services

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

61-18111

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

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

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

61-18111

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

Office of Technical Services

and Pressure Drop in Coil-Pipe Counterflow Heat  
Exchangers, by E.S. Borovik, I.P. Mikhailov.  
RUSSIAN, per, Ukrains'kyi Fizychnyi Zhurnal,  
Vol 9, No 7, 1964, pp 749-758. 9233468  
AHC LA-tr-66-25

*E. S. Borovik*

Sci/Physics  
Aug 66

306,346

Comparison of the efficiencies of various heat  
Exchangers of Liquefaction Machines, by  
E. S. Borovik, I.F. Mikhailov, et al.  
RUSSIAN, per, Ukrains'kyi Fizichnyi Zhurnal,  
Vol 9, No 7, 1964, pp 759-765. F911004966  
AEC LA-tr-66-26

83

*E. S. Borovik*

Sci/Physics  
Aug 66

506,321

Production of Ultrahigh Vacuum by Means of a Heated  
Hydrogen Condensation Pump, by E. S. Borovik,  
G. T. Nikolayev, et al, 13 pp.  
RUSSIAN, rpt, Kharkov, 1963. 9226600  
AEC-UCRL-Tr-1166 (L)

p 28

Sci-Engr  
Jan 65

271,813

The Generation of Pulse Magnetic Fields in Coils  
Cooled to Low Temperatures, by E.S. Borovik, A.G.  
Linar', 3 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXXII, No 4, 1962,  
pp 441-444.

Amer Inst Phys  
Sov Phys - Tech Phys  
Vol VII, No 4

Sci

214,905

Oct 62

Long High-Pressure Arcs, by E. S. Dorovik, R. V. Mitin,  
6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXXI, No 11, 1961,  
pp 1329-1336.

AIP  
Sov Phys - Tech Phys  
Vol VI, No 11

Sci

Aug 62

206,355



Study of Feasibility of Obtaining Steady Magnetic  
Fields in Coils Cooled with Liquid Hydrogen, by  
E. S. Borovik, F. I. Busol, S. P. Grishin, 5 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXXI, No 4, 1961,  
pp 459-465.

AIP  
Sov Phys-Tech Phys  
Vol VI, No 4

Sci

*170, 083*

Sep 61

The Vapor Pressure of Nitrogen and Hydrogen at Low  
Pressures, by E.S. Borovik, S.F. Grishin, E.Ya.  
Grishina, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXX, No 5, 1960,  
pp 539-545.

AIP  
Sov Phys-Tech Phys  
Vol V, No 5

*135,507*

Sci  
Dec 60

Hydrogen Condensation Pump With Built-In  
Liquefier, by E. S. Borovik, B. G. Lazarev,  
I. P. Mikhailov, 4 pp.

RUSSIAN, per, Atom Energ, Vol VII, No 2, 1959,  
pp 117-121.

CB

Sci

Apr 61

152, 477

Determination of Sulfur, Selenium and Halide  
Elements in Ores and Minerals by Spectrum Analysis  
Method of Spectrum Analysis of Solutions, by S. A.  
Borovik, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XIV,  
No 5, 1950, pp 630-633.

SIA 59-10541

Sci - Min/Met  
Sep 59  
Vol 2, No 2

98,027

Determination of Calcium, Magnesium, Aluminum,  
Silicon, and Tin in Refined Platinum and Palladium,  
by S. A. Borovik, A. V. Babayeva, N. I. Ushakova,  
R. I. Rudyy, 4 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XIII, No 5,  
1958, pp 580-582.

Consultants Bureau

Sci - Chem  
Aug 59

93,780

Spectral Analytic Methods Applied to Geochemistry,  
by S. A. Borovik, T. F. Borovik-Rozanova, 10 pp.

RUSSIAN, bino per, Iz Ak Nauk SSSR, Ser Fiz,  
Vol. XIV, No 5, 1950, pp 665-669.

*Am Med Sac T-29*  
Air Res and  
Dev Command

*T-22R*

Scientific - Geophysics CTS/DEX

*13,592*

Concerning the Application of a High-Frequency Tesla  
Generator to the Quantitative Spectral Analysis of  
Solutions, by S. A. Borovik, T. F. Borovik-Romanova.

RUSSIAN, thrice-no per, Dok Ak Nauk, Vol LXXIII, No 4,  
1950, pp 683-684.

AEC Tr 560

14,675

Scientific - Physics

Aug 1951 CTS

(U-6687)

Adoption of Self-Supporting System at a Radio  
Center, by S. Ya. Borovik, 4 pp.

RUSSIAN, per, Vest Svyazi, No 8, 1961.

JPRS 10979

175,847

Sci  
Dec 61



An H Automated Cycle for Liquefying Hydrogen  
Without Using a Gas Holder, by Ye. S. Borovik,  
I. P. Mikhaylov, 7 pp.

RUSSIAN, per, Khim Mash, No 1, 1961, pp 1-2.  
9676299

FTD-IT-62-24

Sci - Chem

192, 689

Apr 62

138  
Ionization of Fast Hydrogen Atoms in a Strong  
Magnetic Field, by Ye. S. Borovik and

F. I. Basol, 5 pp.

RUSSIAN, per, AN USSR. Fiziko-Tekhnicheskiy  
Institut. Doklady, No 52, 1964, pp 3-6.

F100253468-V

FTD-HT-23-818-67

Sci-Physics

Oct 68

366,145

*Ye. S. Borovik*

Dependence of the Magnetic Susceptibility of Barium  
Ferrite on the Temperature, by Ye. S. Borovik, Yu. A.  
Mamaluy, 4 pp.

RUSSIAN per, Fiz Metal i Metallov, Vol IX, No 1,  
1960, pp 36-40.

FP

Sci

Jun 61

156, 198

The Temperature Relationship of the Intensity of  
Magnetization of Hexagonal Ferrites in Weak Fields,  
by Ye. S. Borovik, Yu. A. Mamaluy, 4 pp.

RUSSIAN, per, Fiz Metal i Metallov, Vol IX, No 6,  
1960, pp 828-831.

PP

156, 156

Sci

Jun 61

Galvanometric Effects and the Properties of  
Conduction Electrons in Metals, by E. S. Borovik,  
14 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Ser Fiz.  
Vol III, No 4, 1955, pp 429-443.

Columbia Tech Tr

Sci - Physics

Apr 57 CTS

Avail Br 5 Lib

45, 611

Electric Conductivity of Metals at High Current Density,  
by Ye. S. Borovik.

Full translation.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,  
No 4, 1953, p 771.

*Sci. & Tech. RT-595*  
Scientific - Physics

NSF 140

CTS/DEX

8353

On the Interaction Between Anisotropy of the  
Hall Effect and Variations of the Magnetic  
Field. Part 1. Investigation of Tin and  
Indium, by E. S. Borovik, 10 pp.

Full tr

RUSSIAN, per, Fiz Metall i Metallovedenie SSSR,  
Vol II, No 1, 1956, pp 33-42.

*SLA-R-1141*

Navy Tr 1443/NRL 596

Sci - Physics  
Encl 1956 CTS/dex Mar 1957

*45,464*

Changes in the Resistance of Tin and Indium in a  
Magnetic Field, by E. S. Borovik, 6 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol  
LXIX, No 6, 1949, pp 767-769.

Sci Mus Lib No 56/3143

Sci - Physics

44,025

SEA-1112-16-1-1949

1/18 1949

1/18 1949



Hall Effect in Indium, by E. S. Borovik, 5 pp.

*thru*  
RUSSIAN, *no per*, Dok Ak Nauk SSSR, Vol LXXV, No 5,  
1950, pp 639-641.

SLA Tr R-871

Sci - *Chemistry*

*52,352*

Sep 57

*Morris S. Friedman*

Investigation of Breakdown in Vacuum, by E. S.  
Dorovik, B. P. Batrakov, 8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVIII, No 9,  
1958, pp 1971-1980.

Amer Inst of Phys  
Sov Phys - Tech Phys  
Vol III, No 9

Sci - Phys

May 59

87,432

Vapor Pressure of Nitrogen and Hydrogen at Low  
Pressures, by E. S. Borovik, S. F. Grishin, et al, 12 pp.  
RUSSIAN, rpt.  
AEC-ORNL-Tr-157

  
p 100

Sci-Phys  
Mar 65

274,364

Investigation of Galvanomagnetic Phenomena in  
Chromium at Low Temperatures, by E. S. Borovik,  
V. G. Volotskaya, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXVI  
(9), No 6, 1959, pp 1650-1655.

Amer Inst of Phys  
Sov Phys-JETP

Sci

Jan 60

106,782

63-10210

Borovik, E. S., Busol, F. L., and Grishin, S. F.  
INVESTIGATION OF THE POSSIBILITY OF OBTAIN-  
ING STATIONARY MAGNETIC FIELDS IN COILS  
COOLED BY LIQUID HYDROGEN. [1962] 14p.  
(refs. omitted).

Order from OTS or SLA \$1.60

63-10210

Trans. of unidentified mono. [by Soviet Scientists on  
the occasion of the visit to Project Matterhorn, May 60]  
paper no. 13.

Another trans. is available from OTS \$0.50 as  
AEC-tr-4070, Apr 61, 17p.

DESCRIPTORS: \*Coils, \*Magnetic fields, Coolants,  
Hydrogen, Liquefied gases.

For abstract see Technical Translations 6: 219, 1961.

(Physics--Magnetism, TT, v. 10, no. 2)

- I. Borovik, E. S.
- II. Busol, F. L.
- III. Grishin, S. F.

Office of Technical Services

Hydrogen Condensation Pump With Built-In  
Liquefier, by E. S. Borovik, B. G. Lazarev,  
I. F. Mikhailov, 4 pp.

RUSSIAN, per, Atom Energ, Vol VII, No 2, 1959,  
pp 117-121.

CB

Sci

Apr 61

152, 477

Investigation of the Possibility of Obtaining  
Stationary Magnetic Fields in Coils Cooled by  
Liquid Hydrogen, by E. S. Borovik, F. I. Busol,  
S. F. Grishin, 34 pp.

RUSSIAN, paper, 1960.

ABC Tr-4070

Sci - Chem  
Apr 61

149,040

The Limiting Vacuums of Condensation Pumps, by  
E. S. Barovik, S. F. Grishin, B. G. Lazarev,  
4 pp.

RUSSIAN, per, Prihory; Tekh Ekaper, No 1, 1960,  
pp 115-117.

ISA

Sci

140,530

Mar 61



Ball Effect in Beryllium and Aluminum at Low  
Temperatures, by E. S. Borovik, 8 pp. UNCLASSIFIED

RUSSIAN, no per, Zhur Eksp. i Teoret. Fiz. SSSR.  
Vol XXIII, No 1 (7), 1952, pp 83-90.

Navy Tr 952/MRL 462

Scientific - Min/Metals

Feb 54 CTS

10, 191

Change of Resistance of Metals in a Magnetic Field  
at Low Temperatures, by E. S. Borovik, 9 pp.  
UNCLASSIFIED

RUSSIAN, no per, Zhur Eksper i Teoret Fiz SSSR.  
Vol XXIII, No 1 (7) 1952, pp 91-100.

Navy Tr 953/NRL 463

Scientific - Min/Metals Feb 54 CTS

10, 190

The Hall Effect and Variation of Resistance of  
Lead, Copper, and Magnesium in the Magnetic Field,  
by E. S. Borovik, 14 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXVII,  
No 3 (9), 1954, pp 355-368.

*Sci 2 G. O. RT-2591*  
Navy Tr 1165/NRL 513

Scientific - Physics  
Apr 55 CTS

23,368

An Investigation of a Supersonic Jet of Carbon Dioxide  
as a Target for Charge Transfer of Ions, by E. S. Borovik  
F. I. Busol, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol LXXIII, No 8, 1963,  
pp 973-981.

Amer Inst of Phys  
Sov Phys - Tech Phys  
Vol VIII, No 7

Sci  
Feb 64

249,177

Interrelation Between the Anisotropy of the Hall  
Effect and the Change in Resistance of Metals in a  
Magnetic Field, I. Investigation of Zinc, by E. S.  
Borovik, 9 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXX,  
No 2, Jan 1956, pp 262-271.  
Feb

Amer Inst of Physics  
Vol III, No 2  
Soviet Physics, JETP

46,497

Sci - Physics  
Apr 57 CTS

A Hydrogen Condensation Pump, by B. G. Lazarev,  
E. S. Borovik, M. F. Fedorova, N. M. Tsyn, 11 pp.  
UNCLASSIFIED

UKRAINIAN, no per, Ukrain'skiy Fiz Zhur, Vol II,  
No 2, Kiev, 1957, pp 175-182.

US JPRS/NY-L-203

Sci - Engr  
Jun 58

64,399

Production of Long-Duration Pulsed Magnetic Fields, by  
E.S. Borovik, A.G. Limanov, 4 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXXI, No 8, 1961,  
pp. 939-943.

AIP  
Sov Phys -Tech Phys  
Vol VI, No 8

191,901

Sci  
Mar 62

5

Determination of the Composition of Residual  
Gases in Vacuum Obtained by Condensation Pumps,  
by E. S. Borovik, B. F. Grishin, 6 p.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXIX, No 9, 1959  
pp 1110-1116.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol IV, No 9

Sci Apr 60

112,407



Cloud Physics, by A. M. Berezilov, A. Kh. Khrgian, 392 pp.  
RUSSIAN, bk, Piska Oshakov, 1961.

OTS -63-1141  
PL-480

Sci - Phys  
Feb 64

250,877

The Decay Scheme of  $Dy^{166}$ , by L. I. Rusinov, A. V. Borovikov, V. S. Gvozdev, et al, 4 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX, No 6 (12), 1960, pp 1529-1533.

AIP  
Soviet Phys - JETP  
Vol XII, No 6

Sci

Jul 61

160,204

52  
Relationship Between the Radar Signal Reflected From  
a Cloud and the Cloud Parameters, by Barovitsky,  
Minsk, et al, 23 pp.  
RUSSIAN, par, Trudy Tekhnicheskoy Akademi, No 36,  
1961, pp 34-38.  
ACR 1-6158  
ED 238460-1004

Sci - E. S. & Astr  
May 64

218,593

possibility of leader investigation of  
cloud structure, by A. N. Borovikov,  
V. V. Kostanov.  
RUSSIAN, per, Trudy Vses Nauchn Isstov  
Sovetskaniya, Vol V, 1963, pp 325-333.  
\*FTL-IT-65-1559

46

A. M. BOROVIKOV

Sci - Earth Sci & Astron  
Dec 65

Large Particles in Clouds. by A. M. Borovikov,  
I. P. Kozin, 8 pp.

RUSSIAN, per. ~~Irinye Vsesoyuznoye Nauchnoye~~  
~~Meteorologicheskoye Obozreniye, Leningrad.~~  
Vol. 5, 1963, pp 73-82.

AIR/PTD/PT-24-277-67

*A. M. Borovikov*  
Sci-Atmos Sci  
Nov 68

368,205

66  
Some Results of Radar Observations of the De-  
velopment of Cu cong Clouds and the Results of  
Modification, by A. M. Borovikov and V. V. Kon-  
tarev, et al, 24 p.  
RUSSIAN, per, Trudy, Tsentral'naya Aerologicheskaya  
Observatoriya, Moscow, No 57, 1984, pp 24-  
40. 8780417  
AFRL T-R-510

*A. M. Borovikov*

Sci-Ear Sci  
May 66

301,267

The Accuracy of Measuring Cloud Heights by  
Radar, by A. M. Borovikov, V. V. Kostarev.  
RUSSIAN, per, Trudy Tsentr Aerolog. Observ.  
No 36, 1961, pp 37-42.  
ATN-RJ-5394

*A. M. Borovikov*

Sci-Atmos Sci  
Mar 70

403,191

Borovikov, A. M., Mazin, L. P., and Nevzorov, A. N.  
SOME RESULTS OF THE MEASUREMENT OF THE  
SIZE DISTRIBUTION OF LARGE PARTICLES IN  
CLOUDS. [1963] 11p.  
Order from ATS \$11.75

ATS-31Q68R

Trans. of Tsentr[al'naya] Aerolog[icheskaya] Observ-  
[atoriya]. Tr[udy] (USSR) 1961, no. 36, p. 3- 2.

DESCRIPTORS: Measurement, Size, Distribution,  
\*Particles, \*Clouds.

(Earth Sciences--Meteorology, TT, v. 10, no. 1)

63-17109

- I. Borovikov, A. M.
- II. Mazin, L. P.
- III. Nevzorov, A. N.
- IV. ATS-31Q68R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services



Borovikov, A. M. and Kostarev, V. V.  
THE ACCURACY OF MEASURING CLOUD HEIGHTS  
BY RADAR. [1963] 6p.  
Order from ATS \$7.50

ATS-33Q68R

Trans. of Tsentral'naya Aerologicheskaya  
Observatoriya. Trudy (USSR) 1961,  
no. 36, p. 37-42.

DESCRIPTORS: \*Clouds, \*Meteorological radar,  
\*Cloud height indicators, Measurement, Radar.

(Earth Sciences--Meteorology, TT, v. 10, no. 3)

63-17356

- I. Borovikov, A. M.
- II. Kostarev, V. V.
- III. ATS-33Q68R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services

(DC-6728)

Physics of Clouds, by ЕВГЕНИЙ А. М. Боровиков,  
I. I. Gayvoronskiy, et al, 6 pp.

RUSSIAN, per, Met 1 Gid, No 2, 1962, pp 62-63.

JPRS 13654

Sci - Geophysics  
May 62

194, 261

Investigation of the Decay Scheme for  $\text{Hf}^{181}$ , by  
A. V. Borovikov, V. S. Gvosdev, I. A. Kondurov,  
6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol  
XXIII, No 12, 1959, pp 1437-1441.

Columbia Tech

Sol  
Feb 61

138, 113

RESULTS OF REDUCTION OF OBSERVATIONS OF THE  
MICRO-STRUCTURE OF CLOUDS WITH ICE ACCRETION AND  
WITHOUT ICE ACCRETION ON AIRCRAFT, BY I. G.  
POHELNO, A. M. BOROVINOV.

RUSSIAN, PER, TRUDY TSENTRAL INST PROGNOZOV,  
NO 80, 1959, PP 64-78.

MLL N. 3755

SCI - GEOPHYS

OCT 62

214,160

(DC-6509)

On the Use of Radar for the Study of the  
Structure of Clouds, by A. M. Barovil'sov,  
V. V. Kostarev, et al, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXL, No 3,  
1961, pp 575-578.

JPRS 13095

Sci - Geophys  
Apr 62

190,552

Cambrian Deposits in the Kendyktas Mountains  
(Southern Kazakhstan), by L. I. Borovikov, L. N.  
Krys'kov, 3 pp,  
RUSSIAN, per, Dok Ak Nauk SSSR, Earth Science  
Sections, Vol CLI, No 1-6, Jul, Aug 1963, pp

Amer Geol Inst

Sci  
Jul 65

The Participation of Hydroxylamine in Amino  
Acid Synthesis in Plant, by V. L. Kretovich,  
E. A. Bundel', M. R. Frasheri, N. V. Borovikova,  
3 pp.

RUSSIAN, per, Dok Ak Nauk BSSR, Vol CCXXI, No 6,  
1958, pp 1065-1067.

Amer Inst of Biol Sci

Sci - Biol

86,194

Apr 59

The Comparative Effectiveness of Subcutaneous and  
Intramuscular Injections of Tetanus Toxoid in  
Vaccinating Persons Against Tetanus, by D. P.  
Fletsityi, E. M. Shver, A. M. Monayenkov, E. R.  
Dorovikova, A. S. Labinskaya, 7 pp.

RUSSIAN, no per, Zhur Microbiol, Epidemiol i  
Immunobiol, Vol XVIII, No 4, 1957, pp 1-9.

Pergamon Press

Sci - Medicine  
Jan 58

57,250



The  $LS_3$  and  $LS_4$  Lines of Germanium, by G. P.  
Borovikova, M. I. Korsunskiy, 2 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol CXIV,  
No 6, 1957, pp 1192-1194.

Amer Inst of Phys  
Sov Phys, "Doklady"  
Vol II, No 3

Sci - Phys

Mar 58

59,581

The Effect of Small Amounts of Gallium Impurities  
on the Positions of  $L_{\alpha}1,2$  and  $L_{\beta}6$  Emission Lines  
of Germanium, by M. I. Korsunskiy, L. B. Litvinova,  
G. P. Borovikova, 2 pp.

RUSSIAN, per, Fiz Tverdogo Tela, Vol III, No 1,  
1961, pp 282-285.

AIP  
Sov Phys-Solid State  
Vol III, No 1

Sci  
Jul 61

161,184

Investigation of the L-Series of Germanium. Influence  
of Impurities, by G. P. Borovikova, M. I. Koraunskiy;  
5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIII,  
No 5, 1959, pp 564-568.

Columbia Tech Tr

Sci  
Aug 60

122,304

L Series X-Ray Spectrum of Germanium, by G. P.  
Borovichova, M. I. Korzunakly, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXI,  
No 10, 1957, pp 1438-1444.

Columbia Tech

Sci - Phys

Feb 59

80,890

On the Lines Associated with the  $L\alpha_{1,2}$  and  $L\beta_1$  Lines  
of the Germanium Spectrum, by G. P. Borovikova, M. I.  
Korsunsky, 3 pp.

*huc 100*  
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No 1, 1957,  
pp 75-77.

X<sup>1</sup> Amer Inst of Phys  
Sov Phys-"Doklady"  
Vol II, No 4

Sci - Phys

May 58

63,689

Hydrogenation of Unsaturated Compounds in the  
Presence of Colloidal Palladium. XIII.  
Hydrogenation of Carbocyclic Enyne Hydrocarbons,  
by Kh. V. Bal'yan, N. A. Borovikova, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 9,  
1959, pp 2882-2883.

CB

Sci

129,276

Sep 60

Hydrogenation of Unsaturated Compounds in the  
Presence of Colloidal Palladium. XII. Hydrogenation  
of Alkylacetylenes and Phenylacetylene, by Kh. V.  
Bal'yan, N. A. Borovikova, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,  
1959, pp 2557-2559.

Consultants Bureau

Sci

Aug 60

126,709

Hydrogenation of Unsaturated Compounds in the  
Presence of Colloidal Palladium. XI.  
Hydrogenation of Vinylacetylene, by Kh. V.  
Bal'yan, N. A. Borovikova, 4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 8,  
1959, pp 2553-2556.

Consultants Bureau

Sci

Aug 60

126,708



Hydrogenation of Unsaturated Compounds in the Presence  
of Colloidal Palladium, XIV. Some Characteristics of  
the Hydrogenation of Disubstituted Allene Hydrocarbons,  
by Kh. V. Bal'yan, A. A. Petrov, N. A. Borovikova, 6 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 10,  
1960, pp 3247-3252.

CB

171, 733

Sci

Oct 61

FINANCING AND CREDITING OF CAPITAL INVESTMENTS  
IN CONSUMERS' COOPERATIVE SYSTEM OF P. NOVOSELOV  
AND V. BOROVINOVA, 13 PP.

RUSSIAN, PER, DEN'GI I KREDIT, NO 7, JULY 1963,  
PP 61-68.

JPRS 21740

USSR ECON  
NOV 63

040,581

Borovik-Romanov, A. S., Orlova, M. P., and Strelkov, I. G.  
CONSTRUCTION OF A PRACTICAL TEMPERATURE SCALE IN THE RANGE 10-90°K (Postroyeniye Prakticheskoy Temperaturnoy Shkaly v Oblasti 10-90°K) tr. by Robinson. 16 Mar 60 [15]p. (foreign text included) 27 refs. [DSIR LLU] M 1823.  
Order from OTS or SLA \$1.60

61-13147

Trans. of \*Izmeritel'naya Tekhnika (USSR) 1959, no. 12, p. 28-32.

DESCRIPTORS: \*Resistance thermometers, \*Scale, Standardization, Thermometers.

Four platinum thermometers ( $\alpha = 0.003925$ ) were compared with a gas thermometer without spurious volumes at 107 different temperatures. The comparison was carried in an adiabatic cryostat in the temperature range from 10.7 to 94.9°K. As a result of evaluating the experimental data obtained in the comparisons, (Physics--Thermodynamics, TT, v. 6, no. 3) (over)

61-13147

I. Borovik-Romanov, A. S.  
II. Orlova, M. P.  
III. Strelkov, I. G.  
IV. DSIR LLU M 1823

Office of Technical Services

13 066

In-1 \*US-7

BOROVIK-ROMANOV A. S.

Piezomagnetism in antiferromagnetic cobalt and manganese fluorides

\* Zhur. Eksptl'. i Teoret. Fiz., 38, No. 4, 1088-1098 (1960)

In-1: 370/60 - English

\*US-7: English

E u r a t o m

Borovik-Romanov, A. S., Orlova, M. P., and  
Strelkov, P. G.  
MAGNETIC AND THERMAL PROPERTIES OF THREE  
MODIFICATIONS OF SOLID OXYGEN. [1960] 7p.  
16 refs.

Order from LC or SLA m\$1.80, ph\$1.80  
UCRL Trans-554

Trans. of Akademiya Nauk SSSR. Doklady, 1954.  
v. 99, no. 5, p. 699-702.

Solid oxygen was studied to verify the thermal and mag-  
netic peculiarities of paramagnets with strong inter-  
action between the magnetic moments, and to investi-  
gate the hypothesis that at low temperatures oxygen is  
antiferromagnetic. Vacuum-colorimeter measurements  
in the vicinity of the 3 phase-transition points of oxygen  
indicated that the  $\beta \rightarrow \gamma$  transition is of type I, and the  
 $\alpha \rightarrow \beta$  transition of type II (however, the heat capacity  
peak was sharp and its width extended to the resolving-  
power limit of the vacuum colorimeter without adia-  
(Chemistry--Physical, TT, v. 5, no. 12) (over)

61-13916

1. Oxygen--Thermodynamic  
properties
2. Oxygen--Magnetic  
properties
3. Title: Solid oxygen
- I. Borovik-Romanov, A. S.
- II. Orlova, M. P.
- III. Strelkov, P. G.
- IV. UCRL Trans-554
- V. Lawrence Radiation  
Lab., U. of California,  
Berkeley

Office of Technical Services

Determination of the Main Components of  
Clay, Spectrographically, by E. E. Vaynshtein,  
T. V. Borovik-Romanov, V. V. Korolev, 6 pp.

RUSSIAN, bimo per, Zhur Anal Khim, Vol X,  
No 3, 1955, pp 158-163. CIA D 323547

Consultants Bureau

Scientific - Chemistry  
CTS 73/Oct 1955

27,878

Effect of Bulk Composition on the Entry of Individual  
Test Elements Into the Arc Flame, by T. F. Borovik-  
Romsnova, 6 pp.

RUSSIAN, bimo per, Zhur Anal Khim, Vol XI, No 2,  
Mar/Apr 1956, pp 129-134. CIA 9001312 C, Reel No 55

Consultants Bureau

Sci - Chemistry

40,821

Determination of Rare and Trace Elements in  
Soils, Plants and Waters, by T. F. Borovik-  
Romanova, Yu. I. Belyayev, et al, 50 pp.

RUSSIAN, bk, Spektral'noye Opredeleeniye  
Rodkikh i Rasseyannykh Elementov, Iz Ak  
Nauk SSSR, Moscow, 1962, pp 204-238.  
9683272

FTD-TT-63-280

Sci-Chem  
Jun 63

234,534



✓ On the Use of an Activated AC Arc for Spectroscopic Determinations of Alkali and Alkali Earth Elements in Natural Waters, by T. F. Borovik-Romanova, V. V. Korolev, Yu. I. Kutsenko, M. M. Farafonov, 2 pp.

Full tr

RUSSIAN, bimo per, Iz Ak Nauk, Ser Fiz, Vol XIX, No 2, 1955, p 196. CIA C 42795

35,853 Columbia Tech Tr

Scientific - Physics, Min/Metals, *Engineering*  
Jun 56 GTS/dex

10 025

Fr-1

A. S. BOROVIK-ROMANOV, N. M. KREINES

Passage from the antiferromagnetic state to the ferromagnetic state  $\text{CoSO}_4$

Passage de l'état antiferromagnétique à l'état ferromagnétique dans  $\text{CoSO}_4$

Zhur. Eksptl'. i Teoret. Fiz., 35, 1035-1055 (1958)

CEA-tr-R-519. French

E u r a t o m

A New Type of a Gas Thermometer and the Determination  
of the Boiling Point of Hydrogen, by A. A.  
Borovik-Romanov, P. G. Strelkov, 6 pp.

RUSSIAN, per, Dok Ak nauk SSSR, Vol LXXXIII, 1952,  
pp 59-61.

AEC Tr 3233

Sci - Physics  
Jun 58

65,951

Antiferromagnetic Resonance in  $\text{MnCO}_3$ , by A.S. Borovik-Romanov,  
N. M. Kreines, et al, 5 pp.  
RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XLV, No 2,  
1963, pp 64-70.

Amer Inst of Phys  
Sov Phys - JETP  
Vol XVIII, No 1

Sci

Feb 64

249,304

The Antiferromagnetism of Anhydrous Sulfates of  
 $\text{Ni}^{++}$ ,  $\text{Fe}^{++}$ ,  $\text{Co}^{++}$  and  $\text{Cu}^{++}$ , by A. S. Borovik-Romanov,  
V. R. Karasik, N. M. Kreines, 6 pp.

RUSSIAN, no per, Zhur Eksper i Teoret Fiz, Vol XXXI,  
No 1, 1956, pp 18-24.

Amer Inst of Physics  
Soviet Physics, JETP  
Vol. IV, No 1

Sci - Physics  
Apr 57 CEB

46,728