

The Viscous Properties of Plastic Disperse
Systems and the Wall Slipping Effect, by
V. V. Sinitzyn. UNCL

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Khim Ak Nauk SSSR, 1956, pp 127-143.

DSIR LIJ (loan) M. 349

Sci - Chem

Jul 59

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Dielectric Properties of Filled Resins and Problem
of Increasing the Strength of Rubber, by B. A.
Dogadkin, et al. UNCLASSIFIED

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Co-op Tr Scheme 552

Sci - Chemistry
Mar 59

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Structure of Resins Filled With Carbon Black and
Changes in Them Resulting From Deformation and
Heating, by B. A. Dogadkin, et al.

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Sci - Physics
Mar 58

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OT 7701

Sep 64

A Method of Studying Lubricating Properties of Oils,
in a Gear Test Rig, by M. D. Genkin, Yu. A. Misharin.

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pp 122-127.

NLL Ref: 8732 1963 (1 057)
(Loan)

Sci - Electron
Aug 63

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A Laboratory Study of Anti-Seizure Properties of
Certain Materials Used for Worm Gears, by
Yu. A. Misharin, A. V. Sivyakova.

RUSSIAN, per, ~~Trudy Trest'ey Vsesoyuznoy Nauch-~~
~~Konferentsii po Sremiya i Izosn. v Mashinakh,~~
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NLL Ref: 8732 1963 (1058)
(Kloan)

Sci - Engr, M/M
Aug 63

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An Examination of the Hypothesis of Blok on
Critical Temperatures in Gearing Seizure, by
M. D. Genkin, Yu. A. Misharin.

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~~Konferentsii po Treniyu i Iznosu v Mashinakh,~~
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Sci - Electron
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The Effect of the Composition and the Nature
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Bezborod'ko, N. T. Pavlovskaya, 15 pp.

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Mashinakh, Vol III, 1960, pp 177-186. 9667363

FTD-FT-62-1173

Sci - Min/Met
Jan 63

Viscosity Characteristics of Mixtures of Oils
of Different Chemical Nature and of the
Consistent Lubricants Obtained by Thickening
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Jan 63

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Congress, Moscow, June-July, 1956, Vol 1,
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Head, Lib Sv Sec
Air Info Div, Lib Cong

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300880073-9

APPROVED FOR RELEASE: Thursday, December 13, 2001

CIA-RDP84-00581R000300880073-9

Formation of a Crystalline Phase From a Silicone
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16-20 November 1959, Stekloobraznoye Sostayaniye,
Moskva-Leningrad, 1960, pp 115-119. 9669354

*FTD-TT-63-265

Sci - Mat & Met
Mar 63

Infrared Reflection Spectra of Sodium Silicate
Glasses and Their Connection With Glass Structure,
by V. A. Florinskaya, 22 pp.

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16-20 November 1959, Stekloobraznoye Sostayaniye,
Moskva-Leningrad, 1960, pp 177-194. 766.9354

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Influence of Glass-Structure on the Spectral and
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G. O. Karapetyan, 11 pp.

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*FTD-TT-63-265

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Elastic Properties of Glass as a Function of
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Sci - Mat & Met
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MLL M. 3825

Sci - Biol

Nov 62

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On the Theory of the Unsteady Motion of an Airfoil,
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RP-1645

Scientific - Aeronautics

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An Experimental Investigation of the Flow of Air in a
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Scientific - Aeronautics
CTS/DEX

Impact of a Solid Body Floating on the Surface of
an Incompressible Liquid, by L. I. Syedov, 25 pp.

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Inst Imeni Prof H. E. Zhukovskogo, No 187, 1934,
Moscow.

CIA/FDD/Z-71

Scientific - Physics
CRS/DEX

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Experimental Investigation of a Model of Two-Stage
Turboblower, by S. A. Dovzhik, V. I. Polikovskiy,
81 pp.

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kogo Instituta im. prof. N. E. Zhukovskogo, No 191,
1935, pp 2-59.

Sci Trans Center RT-654

Scientific - Aeronautics
CTS/DEX

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On the Theory of Drag I. Approximate Integration
of the Differential Equations of the Laminar Boundary
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NLL M. 2738

Sci - Phys

180,036

Jan 62

The Performance of a Vortexless Diffuser Fan,
by V. I. Polikovskiy, M. I. Nevel'son, 47 pp.

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dinamicheskogo Instituta in, prof H. E. Zhukovskogo,
No 224, 1935, pp 2-39.

Sci Trans Center RT-652

Scientific - Aeronautics
CRS/DEX

10,989

Principles of Aerodynamic Design of a Wind Tunnel
Nozzle, by G. M. Abramovich.

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Inst, No 231, 1935, 9087591

MLL M. 2753

Sci - Aero

180.031

Jan 62

Investigation of the Flow in the Open Jet of a
Wind Tunnel, by G. M. Abramovich.

(Part II

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Inst, No 236, 1935, 9087592

MLL M. 2746

Sci - Aero

180.030

Jan 62

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Sci Tr Center
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Scientific - Physics

17,422

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F. & V. Voishel', 6 pp.

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Sci Tr Center RT-1183

Scientific - Aeronautics

Aug 54 CTS

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S. A. Tumarkin, 62 pp.

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No 262, 1936, pp 2-39.

Sci Trans Center RT-653

Scientific - Aeronautics
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On motion of fluid in boundary layer near line of
intersection of two planes, by L. G. Loytayskiy &
V. P. Bol'shakov, 27 pp
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Theoretical Determination of Axial Fan Performance,
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Sci Trans Center RT-651

Scientific - Aeronautics
CTS/DEX

10,975

62-15803

[Vladimirov, A. N.]
APPROXIMATIVE HYDRODYNAMIC CALCULATION
OF A HYDROFOIL OF FINITE SPAN [Priblizhennyi
Gidrodinamicheskii Raschet Podvodnogo Kryla Konech-
nogo Razmakha] tr. from the German by H. P. Rader.
May 46 [128]p. 11 refs. ATI-57 689.
Order from OTS or SLA \$10.10

62-15803

Trans. of a German trans. of [Tsentral'nyi Aerogidro-
dinamicheskii Institut. Trudy] (USSR) 1937, no. 311
[p. 3-52] (also as Zentrale für Wissenschaftliches
Berichtswesen (Germany) Berichte no. 311).
Another trans. of the Russian is available from SLA as
RT-2832 or from NASA as TM-1341.

Portions of this report will not reproduce well.

DESCRIPTORS: Hydrofoils. Design, Hydrodynamics,
Theory, Numerical analysis.

See also PB 117 752

- I. Vladimirov, A. N.
- II. PB-117 752, alternate trans.
- III. ATI-57 689
- IV. RT-2832
- V. NACA TM-1341

(Unannounced)

Office of Technical Services

Turbulent Friction in the Boundary Layer of a Flat Plate in a Two-Dimensional Compressible Flow at High Speeds, by F. Frankl', V. Voishel, 22 pp.

RUSSIAN, per, Trudy Tsentral'nogo ~~MA~~ Aero-Gidrodinamicheskogo Instituta im. prof. N. E. Zhukovskogo, No 321, 1937, pp 2-20.

Sci Trans Center RT-649

Scientific - Aeronautics
CTS/DEX

10,991

RT-649

Thermal Method of Measurement of Turbulence in
Wind Tunnels, by B. Ya. Trubchikov. 66 pp.
RUSSIAN, per, Trudy Moscow. Tsentral'nogo
Aero-Gidrodinamicheskogo Institut, No 372,
1938, pp 1-44.
AIR/FRD-MI-24-419-69

sci/methods
may 70

The Theory of a Free Jet of a Compressible Gas, by
G. N. Abramovich, 91 pp.

RUSSIAN, per, Trudy Tsentral'nogo Aerogidrodinamicheskogo
Instituta im, prof, N. E. Zhukovskogo, No 377, 1939,
pp 2-69.

Sci Trans Center RT-648

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Scientific -Aeronautics
CTS/DEX

Distribution of Structural Weight of Wing Along the
Span, by V. V. Savel'ev, 25 pp.

RUSSIAN, per, Trudy Tsentral'nogo Aero-Gidrodinamicheskogo
Instituta im. prof. N. E. Zhukovskogo, No 381,
1939, pp ~~XXXXXX~~ 2-20.

24
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Scientific - ^{er}Aeronautics
CTS/DEK

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Tail Buffeting, by G. G. Abdrashitov, 50 pp.

RUSSIAN, per, Trudy Tsentral'nogo Aero-Gidrodinamicheskogo Instituta im. N. E. Zhukovskogo, No 395, 1939, pp 2-43.

Sci Trans Center RT-647

Scientific - ~~KA~~ Aeronautics
CTS/DEE

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V
New Method of Determining the Polar Curve of an Air-
plane in Flight, by B. N. Egorov, 37 pp.

RUSSIAN, per, Trudy Tsentral'nogo Aero-Gidrodinami-
cheskogo Instituta, No 418, 1939.

Sci Tr Center
RT-1647

Scientific - Aeronautics

CTS/DEX

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TT-63-20550

Egorov, B. N., Gallai, M. L., and Sayadyan, G. T.
 CALIBRATION OF AIRSPEED INDICATOR IN FOR-
 MATION FLIGHT; MEASUREMENT OF THE FREE
 AIR TEMPERATURE IN FLIGHT; STUDY OF THE
 BOUNDARY LAYER IN FLIGHT (Tarirovka
 Ukazatelya Skorosti v Polete Stroem; Izmerenie Tem-
 peratury Naruzhnogo Vozdukha v Polete; Izuchenie
 Pogranichnogo Sloya v Polete). [1963] [23p] (foreign
 text included)
 Order from OTS, SLA, or ETC \$2.60 TT-63-20550

Trans. of Tsentral'nyi Aerodinamicheskiy Institut.
 Trudy (USSR) 1959, no. 427, p. 1-14.

DESCRIPTORS: *Airspeed indicators, Calibration,
 *Atmospheric temperature, Measurement, *Boundary
 layer, Flight testing.

(Engineering--Aeronautical, TT, v. 11, no. 10)

- I. Egorov, B. N.
- II. Gallai, M. L.
- III. Sayadyan, G. T.
- IV. Title: Measurement...
- V. Title: Study...
- VI. Title: Izmerenie...
- VII. Title: Izuchenie...

Office of Technical Services

TRUDY TSENTRAL'NOY AEROLOGICHESKOY
OBSERVATORII
(Works of the Central Aerological
Observatory of the USSR)
Translation of 1958, Vols. I and II,
Parts 21, 25, 28, 33.
Translations out of stock by:
Royal Meteorological Society
Executive Secretary
49, Cromwell Road
London, S.W.7

Russ

Investigation of Variability and Diurnal Change
of Wind in the Atmosphere, by V. D. Reshetov,
37 pp.

RUSSIAN, per, Trudy Tsentralnoy Aerologicheskoy
Observatorii, Vol XXI, 1958, pp 3-51. 9080077

(Royal Meteorological
Society) ?

Sci - Geophys

Sep 61

167,026

Investigation of the Pulses of the Horizontal
Component of Wind Speed up to a Height of 5 km,
by V. A. Devyatova, R. V. Pyatynhev, Ro O.
Tydel'skaya, I. A. Cherenkova, 102 pp.

RUSSIAN, per, Trudy Tsentral'noy Aerologicheskoy
Observatorii, Vol XXI, 1958, pp 52-175.

9080077

(Ames)
(~~Regal~~ Meteorological Society) 7

Sci - Geophys

167,983 7

Sep 61

On the Radiational Over-Heating of the Comb
Radiosonde and Its Effect on Results of Aerological
Soundings, by V. D. Reshevetov.

RUSSIAN, per, Trudy Tsentral Aerolog Observ, Vol XXIV,
1958, pp 59-71.

Weather Bureau

Sci - Earth Sci & Ast
Sep 63

(AY-4155)

Properties of the Upper Atmosphere and Artificial
Earth Satellites, by A. I. Repnev, 147 pp.

RUSSIAN, per, Trudy Tsentral Aerolog Observ, No 25,
1959, pp 5-62.

JPRS 7486

Sci - Geophys

Mar 61

142,023

(NY-4155)

Study of the Temperature Coefficient of Resistance
and the Tensiometric Coefficient of Tungsten
Used in the Special Thermometers and Manometers
at the Central Aerological Observatory, by M. N.
Izakov, A. F. Chizhov, 16 pp.

RUSSIAN, per, Trudy Tsentral' Aerolog Observ,
No 25, 1959, pp 63-71.

JPRS 7487

Sci - Geophys

140,957

Feb 61

(NY-4155)

Distribution of Energy in the Spectrum of Solar
Rays at Various Altitudes, by L. A. Biryukova,
9 pp.

RUSSIAN, per, Trudy Tsentral' Aerolog Observ,
No 25, 1959, pp 72-76.

JPRS 7488

Sci - Geophys

Feb 61

140,964

(NY-4155)

Experiment in Determining the Brightness of the
Sky Up to An Altitude of Sixty Kilometers, by
L. A. Biryukova, 17 pp.

RUSSIAN, per, Trudy Tsentral'noy Aerolog Observ,
No 25, 1959, pp 77-84.

JPRS 7489

Sci - Geophys

140,963

Feb 61

Investigation Conducted at the Central Aerological
Observatory on Artificial Modification of Clouds
and Fog, by I. I. Gaivoronskiy, 26 pp.

RUSSIAN, per, Trudy Tsentral'noi Aerologicheskoi
Observatorii, Vol XXVI, 1959, pp 39-55.

NAL 7773.5 1959 (T-R46)
ERDA, Ft Belvoir T-1581
U.S. Dept of Commerce
SHA 62-23393
195, 955

Sci - Geophys
May 68

(91-1001) Gen. Material Sec
T-R-461

Radar Scattering by Non-Spherical Particles,
by A. B. Shupiatkiy, 23 pp.

RUSSIAN, per, Trudy Tsentral Aerolog Observ,
No 30, 1959, pp 39-52. 9685104

Amer Meteorol Soc T-R-402

OTS, SLA & ETC 77-63-23702 (24pp)

Sci - Earth Sci & Ast
Aug 63

342,107

TT-68-24427

Gaivoronakii, I. I.
STUDIES CONDUCTED AT THE CENTRAL AERO-
LOGICAL OBSERVATORY ON THE ARTIFICIAL
MODIFICATION OF CLOUDS AND FOGS (Ob
Issledovaniyakh, Provedennykh v Tsentral'noi
Aerologicheskoi Observatorii v Oblasti Iskusstvennykh
Vozdeistvii na Oblaka i Tumany)
Robert Magruder, tr. Mar 63 [29p] 26refs
AmMetSoc T-R-401+.
Contract AF19(604)6113
Order from OTS, SLA, or ETC \$2.60 TT-64-24427

Trans. of Tsentral'naya Aerologicheskaya Observator-
iya. (Ussr)(USSR) 1959, no. 26, p. 39-55.
Another trans. is available from OTS or SLA \$2.60
as TT-62-23273, Jan 62 [21p].

DESCRIPTORS: *Artificial precipitation, *Clouds,
*Fog, Silver compounds, Iodides, Carbon dioxide,
Solidified gases, Crystallization.
(Earth Sciences--Meteorology, TT, v. 11, no. 11)

I. Gaivoronakii, I. I.
II. AmMetSoc-T-R-401
III. American Meteorological
Society, Boston, Mass.
IV. Contract AF19(604)6113

Office of Technical Services

GROWTH OF ICE CRYSTALS BY COAGULATION, BY A. S.
BRITAYEV, A. N. KORNEYEV.

RUSSIAN, PER, TRUDY MOSKOV TSENTRAL AEROL OBSERV,
NO 30, 1959, PP 73-80.

NLL M. 3791

SCI - CHDM

OCT 62

213,013

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CIA-RDP84-00581R000300880073-9

Measurements of the Attenuation of Sunlight in the
Free Atmosphere, by G. P. Varapnova, 16 pp.

RUSSIAN, per, Trudy Tsentral'noy Aerologicheskoy
Observatoriy, No 32, 1959, pp 3-36.

CIA/FDD XX-1022

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Geophys

Jul 61

USIB INTERNAL USE ONLY

161, 011

Concerning the Asymmetry of Light Scattering in the
Atmosphere, by V. G. Kastrov, 4 pp.

RUSSIAN, per, Trudy Tsentral Aerolog Observ, No 32,
1959, pp 84-87.

CIA/FDD XX-1045

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Geophys

166, 456

Sep 61

USIB INTERNAL USE ONLY

Measurement of Atmospheric Ozone Concentration by
Chemical and Electrochemical Methods, by A.S. Britaev.
RUSSIAN, per Trudy tsent. Aerol. Obs. Vol. 37, 1960,
pp 13-23
CSIRO/No.7717

Sci -
Aug 67

339-518

Nepovitova, A. F.
FORMS OF UPPER SURFACES OF CLOUD LAYERS
AND THEIR RELATION TO THE TEMPERATURE
LAPSE RATE IN CLOUDS (Formy Verkhnei Poverkh-
nosti Oblachnykh Sloev i ikh Sbyaz's Vertikal'nykh
Gradientom Temperatury v Oblakakh) tr. by H. K.
Gold. June 62, 11p.

Order from OTS \$0.50

62-11707

Trans. of Tsentral'naya Aerologicheskaya Observa-
toriya. Trudy (USSR) 1960, v. 28, p. 49-57.

DESCRIPTORS: *Clouds, Atmospheric sounding,
Temperature, Humidity, Surfaces, Classifications.

The temperature lapse rate is closely connected with
the degree of unevenness, that is, the more or less
convective character of the upper surface of clouds.
The development of unevenness and the lapse rate in-
crease in parallel fashion. This dependence is most
sharply pronounced with type A clouds under a layer
(Earth Sciences--Meteorology, TT, v. 8, no. 6) (over)

62-11707

I. Nepovitova, A. F.
II. Weather Bureau,
Washington, D. C.

NCH 202 894

Office of Technical Services

Burkovskaya, S. N.
WATER CONTENT DISTRIBUTION IN CLOUDS OF A
WARM FRONT. [1962] 12p.
Order from ATS \$15.65 ATS-00P59R

Trans. of Tsentral[']naya Aerolog[icheskaya] Observ-
atoriya. Trudy (USSR) 1960, no. 28, p. 58-69.

DESCRIPTORS: *Clouds, *Moisture.

(Earth Sciences--Meteorology, TT, v. 8, no. 3)

62-17183

- I. Burkovskaya, S. N.
- II. ATS-00P59R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Mass Selection in Tubes Moving in a Rarefield
Gas, by A. I. Repnev.
RUSSIAN, per, Trudy Tsentral Aerolog Observ,
NO 29, 1960, pp 66-73.
NASA TT F-8653

Sci - E S & Ast
May 64
U.S. GOVERNMENT ONLY

258,657

On Some Questions of the Unequilibrated
State of a Gas in the Upper Atmosphere,
by G. A. Kokin.
RUSSIAN, Trudy Tsentr Aerol. Observ., 1960,
Vol 29, pp 74-83.
NLL 9022.55 1964 (34) (On Loan)

Aug 65

288,037

Results of Rocket Measurements of the Vertical
Distribution of Atmospheric Ozone, by L. A.
Kudryavtseva.

RUSSIAN, per, Trudy Tsentral Aerol Observ, No 37,
1960, pp 24-29.

HLI Ref: 5828.4 1963 (5 341)
(Loan)

Sci - Earth Sci & Astron
Aug 63

343,382

The Radiation Balance in Parts of the Atlantic
and Indian Ocean from Observations Taken
on the Diesel-electric Craft Ob', by V. F
Belov.

RUSSIAN, per, Trudy Tsentr Aerol. Observ.,
1960, Vol 37, pp 49-54.

NLL 9022.551 1964 (253) (On Loan)

Aug 65

287,224

The Albedo of the Underlying Surface and
of Some Cloud Forms in the Area of the
Antarctic Slope and the Davis Sea,
by V. F. Belov.

RUSSIAN, Trudy Tsentr Aerol Observ, 1960,
Vol 37, pp 55-58.
NLL 9022.551 1964 (254) (On Loan)

Aug 65

287,225

Structure of the Tropopause, by M. A. Zolotarev.

RUSSIAN, per, Trudy Tsentral Aerolog Observ, No 38,
1960, pp 32-54.

*AFCRL Res Lab for
Amer Meteorol Soc

Sci - Earth Sci & Astron
16 Apr 63

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CIA-RDP84-00581R000300880073-9

The Investigation of Certain Errors in the
Determination of the Absorption of Solar
Radiation in the Atmosphere With Pyranom-
eters, by V. G. Kastrov, 27 pp.

RUSSIAN, bk, Trudy Tsentral Aerol ~~St~~ Observ,
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FTD-TT-62-1511

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