

A Volumetric-Gravimetric Method of Measuring
Adsorption of a Mixture of Gases, by B. P.
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Vol 90, No 5, 1953, pp 811-814.
NLL RTS 3438

Sci-Chem
Nov 67

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Influence of Normal Pressure on Friction
in a Mixed Boundary-Hydrodynamic (Thin Film)
Lubrication, by P. M. Tolstov.

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No. 5, 1956, pp. 848-852.

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1-1-1956 51, 848, 852

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R-1597. Shcherbakovite - a new mineral. Doklady
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On the Mechanism of the Process of the
Electro-polishing of Copper in Phosphoric Acid,
by A. V. Fortunatov, A. V. Finkel'shtein ,

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No 5, 1953, pp 823-826.

Co-op Tr ~~Sk~~ Sch No 91
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Scientific - Min/Metals, Electricity

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(FDD 20160)

Study of Phosphorus Metabolism in Brain During Hypoxia
With the Aid of Radioactive Phosphorus, by A.A. Smirnov,
D.A. Chetverikov, 6 pp.

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CIA/FDD/U-5744

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Sci - Med, hypoxia

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Apr 54-CTS

Determination of Non-Volatile Organic Acids in
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Chromatography, by Ya. R. Shkol'nik.

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No 5, 1953, pp 847-849.

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Mar 63

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SLA R-3634

Sci

Aug 59

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(FDD 28370)

Structure and Physiological Actions of the Replaced
Phenoxyalkylcarboxylic Acids of Plants, by N. N.
Mel'nikov, R. Kh. Turetskaya, K. S. Bokarev, 6 pp.

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Sci - Chemistry

Aug 56 CTS/DEX

The O Association in Scorpius and Its Instability, by
I. M. ~~Kp~~ Kopilov, 3 pp. (ABSTRACT)

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CIA X-3051

CIA/X-3413

On the Nature of Luminescence of the Crab Nebula,
by I. S. Shklovski, 4 pp. UNCLASSIFIED

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Navy Tr 964/NRL 468

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Scientific - Astronomy

Mar 54 CTS

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On the Dynamics of Evaporation of Ideal Multi-
Component Liquid Mixtures, by L. I. Rubinshtein, *4 pp.*

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Air Museum. Lit 54/0891

On the Theory of Strong Coupling in Meson Fields, by
B. T. Geilikman, 4pp.

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No 6, 1953, p 991-194.

NSF Tr 162

Scientific - Physics
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8905

See Museum Lib 54/0776

The Relative Primary and Total Ionization of μ -Mesons
as a Function of Energy, by G. P. Yeliseyev, V. K.
Kosmachevsky, V. A. Lyubimov, *et al.*

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,
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NEF Tr 163

Scientific - Physics
CFS/DEK

See Moscow Lh 54/0774
8906

Radiative Corrections in the Decay of μ -Mesons, by
E. M. Lipmanov, 3 pp.

Full translation.

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REF 139

Scientific - Physics

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8356

Sci Museum Lib 54/0888

Determinin, O and $1/2$ Spins of Nuclei from Microwave
Spectra of Molecules, by A. M. Prokhorov, N. G. Basov,
2 pp.

RUSSIAN, thrice-no per. Dok Ak Nauk SSSR, Vol XCh
No 6, 1953, p 1003-1004.

NSF Tr 169

Sci Museum Lib 54/0786

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Scientific - Physics

Jan 54 CTS

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Sensitization of the Internal Photoeffect of Semi-
conductors by Chlorophyll and Allied Pigments, by
Ye. K. Putseiko, A. N. Terenin, 5 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC, No 6,
1953, p 1005-1008.

NSP 147

Scientific - Physics
CTS/DEX

8530

An Isotopic-Spin Invariant Theory of β -Decay
by V. V. Sudakov, 2 pp.

Full translation.

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No 6, 1953, p 1009-1010

NSF 130

Scientific - Physics

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Li Museum Lib 59/0894

Reflection Spectra of Compound Silicate Glasses in
the Infrared Before and After Thermal Treatment,
by V. A. Florinskaya, 5pp.

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NSP 148

Scientific - Chemistry
CTS/DEX

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Sci Museum Lib 54/0885

On the Law of Damping of the Luminescence of
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NSF Tr 164

Scientific - Physics
CPS/DEX

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Viscous Properties of Plastic Lubricants and
Rotational Resistance of Anti-Friction Bearings,
by G. V. Vinogradov, M. D. Bezborodko, *et al.*

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XC,
No 6, 1953, p 1019-1022.

NSF Tr 165

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Scientific - Physics
CTS/DEX

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Resistance of Metals to Plastic Deformation, by Yu. I.
Yagn, I. A. Chaplinsky

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XC,
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MSF Tr 176

Scientific - Minerals/Metals
CTS/DEX

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SLA R-1511

The Role of Grain Boundaries in the Plastic
Deformation of Aluminum, by E. S. Yakovleva, M. V.
Yakovlevich *Yap*

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XC,
No 6, 1953, p 1027-1029

NSF 153

Scientific - Minerals/Metals RT 748

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Adsorption of Boron Fluoride on Single and Mixed
Metallic Oxides, by A. V. Topchiev, A. P. Ballod.

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Mar 59

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Abrikosova, I. I. and Deryagin, B. V.
THE LAW OF INTERMOLECULAR INTERACTION
AT GREAT DISTANCES. [1961] 6p. (6 refs. 3 figs.
omitted).
Order from OTS or SLA \$1.10

62-10107

Trans. of Akademiya Nauk SSSR. Doklady, 1953,
v. 90, no. 6, p. 1035-1038.

DESCRIPTORS: *Molecules, *Molecular structure,
Colloids, Liquids, Stability.

(Physics--Molecular, TT, v. 7, no. 8)

I. Abrikosova, I. I.
II. Deryagin, B. V.

201309

Office of Technical Services

11 169

GE-1

BARELKO E. V., KABANOV B. N.

Passivation and activation of magnesium in alkaline solutions

Passivierung und Aktivierung von Magnesium in Alkalilösungen

Dokl. Akad. Nauk SSSR, 90, No. 6, 1059-1062 (1953)

German

E u r a t o m

Kul'kova, N. V., Kuznets, A. D., and Temkin, M. I.
EXCHANGE OF OXYGEN ISOTOPES BETWEEN CAR-
BON MONOXIDE AND CARBON DIOXIDE ON AN IRON
CATALYST. 10p 4 refs DTC-21.

Order from OTS, BTC or DTC \$0.80 63-26688

Trans. of Akademiya Nauk SSSR, Doklady, 1953, v. 90,
[no. 6] p. 1067-1070.

Another trans. is available in Dutch from OTS or BTC
\$1.55 as 61-17422, MTWL-793, 11p.

DESCRIPTORS: Carbon compounds, Monoxides, *Carbon
dioxide, *Isotopes, *Oxygen, Iron compounds, Oxides,
Catalysts, *Exchange reactions, *Iron catalysts.

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

63-26688

- I. Kul'kova, N. V.
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S-3064

Polymorphic Transformations of Potassium and Sodium
Superoxides at Low Temperatures, by T. V. Rode.

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Determination of the Dose of Spermatozoa
Used in Fertilization as a Method of Direc-
tioning the Process of Fertilization of
Sturgeon Eggs, by G. M. Persochiv.

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Vol XC, No 6, 1953, pp 1083-1085.

CBIRO

Sci - Biol
Jun 62

199, 629

The Basis of a Classification of Geosynclinal
Regions, by D. S. Kharkevich. (Abstract)

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Solaninase in Potato Sprouts, by Ye. I. Petrochenko.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 90, 1953,
pp 1091-1093.
*NTIS TT 72-51090

Aug 72

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Ordnance Technical Intelligence Sv,
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Report OTIO 108

CIA 2509766

(FDD 21177)

The Problem of Turbulence in a Wave, by A. A.
Dmitriyev, T. V. Bonchkovskaya, 5 pp.

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No 1, Moscow/Leningrad, Jan 1953, pp 31-33.

CIA/FDD/U-6053

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NLL M.274/
NLL M.2929 TIL TR 4848

Sci - Physics, wave turbulence

61-23327

Jul 54 CTS

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On the Theory of Strong Coupling, by Geilikman

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No 1, 1953, p 39.

NSF Tr 191

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CTS/DEX

X7-850

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Secondary Emission During Bombardment of a Metal
Target by Multiply Charged Ions, by Yu. A. Dunayev,
I. P. Flaks, 3 pp.

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45 NSF Tr 72

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Scientific - Nuclear Physics

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Sep 53 CTS

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Volume Effect in the Isotope Shift in Hydrogen and
Deuterium, by D. D. Ivanenko, N. N. Kalchenkov

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CTS/DEX

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An Interpretation of Vibration Spectra and
Computation of the Potential Energy Parameters
of Deuterioethylenes, by L. M. Sverdlov, N. L.
Pukhovskaya

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Scientific - Physics

CTS/DEX

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Pyroelectric Properties of BaTiO_3 - PbZrO_3 Solid
Solutions, by G. A. Smolensky, A. I. Agronovskaya,
N. N. Kravtchik

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DA 9073280

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Scientific - Chemistry

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Reflection and Transmission Spectra of Potassium-
Silicate Glasses in the Infrared, by V. A.
Florinskaya, R. S. Pechenkina

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No 1, 1953, p 59-62.

NSF Tr 108

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Scientific - ~~Chemistry~~, *Physics*
CTS/DEX

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Sci Museum 54/0103

Rectification by Semiconductors in a Thermal Field,
by I. M. Tsidilkovsky, 5 pp.

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No 1, 1953, p 63-66.

NSF Tr 85

Sci Mem Lit 53/2761
Scientific - Physics
CTS/DEX

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Mechanism of Additive Coloration of Alkali Halide
Crystals, by L. M. Shklovsky, L. I. Rybakova, N. I.
Gostova, 5 pp.

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no 1, 1973, p 67. - 70. 920 9208

NSF Tr 02

Scientific - Chemistry

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Sci 2 Cnt RT 199
AEC-TR-5782
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Displacement of Grain Boundaries in Annealed Metal,
by I. A. Odina, M. G. Lozinsky, S. G. Fedotov, 446

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No 1, 1953, pp 75-82.

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77

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NSF Tr 78

USSR

Sci Museum Lib 53/2405
Scientific - Minerals/Metals

5356

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Sp 53 CTS
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**Internal Friction and Shear Modulus of Pure
Copper and Beryllium Bronze, by V. S. Postnikov** 4/22

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,
No 1, p 79-82.

NSF Tr 86

Scientific - Minerals/Metals
CTS/DEX

See you at 53/2759

5908

Jumplike Deformation in the Linear "Elastic" Range
of the Strain Diagram, by N. F. Syutkin, *3 pp*

RUSSIAE, thrice-mo per, Dok Ak Nauk SSSR, Vol XCI,
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NSF Tr 74

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Scientific - Physics

Science Citation Index 53/2000
Sep 53 CTS

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The Structure of the Oxide Formed on the Surface
of Aluminium, by M. S. Beletskiy, 5 pp.

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36,094
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Scientific - Chemistry

Jun 56/dex

Properties of Al_2TiO_5 , by V. A. Dron, A. K. Poduogin,
9 pp.

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AEC-tr-1814

Scientific - Chemistry

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On Two Structural Modifications of Synthetic
Polyamides in a Solid State, by N. V. Mikhaylov,
V. O. Klesman, 4 pp.

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Sci Tr Center RT-2837

Scientific - Chemistry
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On the Chemical Nature of High-Molecular Weight Hydrocarbons of Petroleum, by S. R. Sergienko, A. A. Mikhovskaya, 9 pp.

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Vol XCI, 1 Jul 1953, pp 103-105.

SLA/R-2765

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IAC INTERNAL USE ONLY

Scientific - Chemistry

Feb 56 CTS/DEX

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NOT RELEASABLE TO FOREIGN NATIONALS

Elementary Reactions of Atomic Oxygen With
Methane, by L. I. Avramenko, R. V. Kolesnikova,
5 pp.

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No 1, 1953, pp 107-109.

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Sci Trans Center
RT 2295

Scientific - Chemistry

Sep 55 CTS/DEX

Concerning Certain Similarity and Difference
of Processes Which Occur in Photolysis and
Second Ripening of Photographic Emulsion, by
B. G. Varshaver, A. A. Titov, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCI,
No 1, 1953, pp 111-114.

CIA/FDD/X-1629

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Scientific - Chemistry

May 55 CTS

63-18460

Rode, T. V. and Dobrynina, T. A.
A THERMAL ANALYSIS OF LITHIUM PEROXIDE.
[1963] 6p. 15 refs.
Order from OTS or SLA \$1.10

63-18460

Trans. of Akademiya Nauk SSSR Doklady, 1953, v. 91,
no. 1 [p. 125-127].

DESCRIPTORS: *Thermochemistry, *Lithium com-
pounds, *Peroxides, Decomposition, Reaction kinetics,
*Calorimetry, X-ray diffraction analysis.

A thermographic investigation (heating and cooling
curves) of lithium peroxide was performed under dif-
ferent conditions. The decomposition kinetics of this
compound on heating were examined. X-ray patterns
were obtained from the starting compounds and from
preparations heated to various temperatures for record-
ing the thermal effects on the thermograms. The
(Chemistry--Physical, TT, v. 10, no. 9) (over)

I. Rode, T. V.
II. Dobrynina, T. A.

Office of Technical Services

Oxide Films and the Effect of Surface Active
~~CRYSTALL~~ Substances On the Creep of Metal Single
Crystals, by V. N. Rozhanskiy, P. A. Rebinder,
7 pp.

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No 1, 1953, pp 129-131.

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Scientific - Chemistry

May 56 CTS/dex

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Table of Contents

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Army, OD OTIO -80
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Scientific - Miscellaneous

Heat Capacity of Water-Phenol Solutions in the
Critical Region, by Kh. I. Amirkhanov, I. G.
Gurvich

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NSF Tr 97

Scientific - Chemistry
CTS/DEX

7117

also Sci Museum 53/5857

Vacuum Polarisation in the Theory of Strong
Coupling, by Geilikman

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XCI,
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NSF Tr 192

RT-851

Scientific - Physics
CTS/DEX

9268

Formation of V-Centers in Alkali Halide Crystals
During Their Additive Coloration in Halogen
Vapors, by L. M. Shamovsky

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XCI,
No 2, 1953, p 229. - 232

NSF Tr 93

See in Cont RT 254

7118

Scientific - Chemistry
CTS/DEX

See in Cont 23/2263

B-4233

(NY-1562)

Method of Study of Convective Movements in the Free Atmosphere, by N. I. Vol'fson, 6 pp.

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Sci - Geophysics

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Short-Period [Oscillatory] Disturbances in the
Terrestrial Magnetic Field, by V. A. Troyitskaya,
4 pp.

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Vol XCI, No 2, 1953, pp 241-244. CIA D 247370

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CTS 71/Aug 1955

Def Sci Info Svc,
DRB, Canada,
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25,757

The Nonsteady Rate of Nucleation of a New Phase
Under Great Supercooling, by B. Ya. Lyubov

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Scientific - Nuclear Physics
CTS/DEX

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On Local Distortions of the Crystal Lattices of
Alloys During Transformation Hardening, by
L. Moroz, T. Mingin

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NSF Tr 99

Sci. J. 1953 456

Scientific - Chemistry
ETS/DEX

7123

Sci Museum 53/2861

On the Nature of Viscous Destruction of Metals, by
V. A. Pavlov

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NSF Tr 100

Sci Jv Cont RT 455

Scientific - Minerals/Metals
CTS/DEX

7119

Sci Museum 53/2862

Diffusion of Iron in Nickel, by M.B. Neiman
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*CFSTI TT 70-57036

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Cyanoethylation of Some Glycols and Preparation of
Amines from the Nitriles, by E. A. Poshiltsova,
3 pp,

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CIA/FDD/X-1558

Scientific - Chemistry

Feb 55 CTS

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Influence of the Temperature Upon the Speed
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Alloys, by G. V. Akimov, V. V. Romanov,

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Co-op Tr Sch No 93
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Scientific - Min/Metals Feb 55 CTS

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The Simplest Ethers of Diethylphosphoric Acids,
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Sci Mu Lib Tr 55/0842

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Microhardness of Siliconized Cases, by N. S. Gorbunov,
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Price \$1.60

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A STUDY OF THE CATALYTIC OXIDATION OF
HYDROGEN BY AN ELECTROCHEMICAL METHOD.
[1960] Sp. 3 refs. Translation NT746; M2035.
Order from LC or SLA ml\$1.80, ph\$1.80 61-13396

Trans. of Akademiya Nauk SSSR. Doklady 1953,
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(Chemistry--Physical, TT, v. 5, no. 1)

61-13396

- I. Hydrogen--Oxidation
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- I. Krasil'shchikov, A. I.
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and Industrial Research
(Gr. Brit.)
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Office of Technical Services

Effect of Gelatin on the Thermal Decolorization
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of Gelatin, 4 pp,

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No 2, 1953, pp 299-300.

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Scientific - Chemistry

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Relaxation of Pressure During Phase Transformation
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SLA 60-17704

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Sep 60

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New Principle in the Investigation of Atmospheric
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NSF Tr 110

See Tr 61 + RT 377
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Scientific - Chemistry Physics
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HSF Tr 111

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See Museum 54/0102

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DESCRIPTORS: *Alumina-silica catalysts, Poisoning,
Pyridine derivatives.

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Order from OTS or ETC \$1.55 61-17208

Trans. of Akademiya Nauk SSSR. Doklady, 1953,
v. 91, no. 3, p. 577-580.

DESCRIPTORS: *Benzenes, Hydrogen compounds,
Bromides, Liquids, *Exchange reactions, Deuterium.

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[8p] (foreign text included) 4refs
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DESCRIPTORS: *Glass, Colors, Chemical analysis.

(Materials--Ceramics, TT, v. 11, no. 10)

TT-64-14044

1. Title: Lomonosov glass
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Office of Technical Services