

The Average Loss Criterion for Estimating
the Reliability of Control Systems,
by G. A. Shastova, 9 pp.

RUSSSIAN, per, Avtomat i Telemekh, Vol XXIII,
No 6, 1962, pp 769-777.

ISA

Sci
Jan 63

220,704

Noise Stability of Telemetry Signal Transmissions on
Channels with Noise Fluctuations, by V. A. Kashirin,
G. A. Shastova, 13 p.

RUSSIAN, per, Avtomat i Telemekh, Vol XIX, No 8,
1958, pp 776-787.

Instru Soc of Amer

Sci

Apr 60

111, 798

Noise Stability of Pulse Signal Receivers in the
Case of Excessive Bandwidth of the Input Filter,
by G. A. Shastova, 9 pp.

RUSSIAN, per, Avtomat i Telemekh, Vol XXIII, No 4,
1962, pp 519-526.

ISA

Sci

Oct 62

216,002

Possibilities of Increasing Noise Stability Based on
on the Use of a Priori Parameter Probabilities by,
V. A. Kashirin, G. A. Shastova, 11 pp.

RUSSIAN, per, Avtomat i Telemekh, Vol XX, No 9,
1959, pp 1239-1249.

Instru Soc of Amer

Sci

Jun 60

117,737

(DC-4400/6)

On the Scientific Treatment of the History of the
CPSU, by D. Kukin, V. Selunskaya, N. Sbatagin,
18 pp.

RUSSIAN, per, Kommunist, No 16, Oct 1960, pp 12-25.

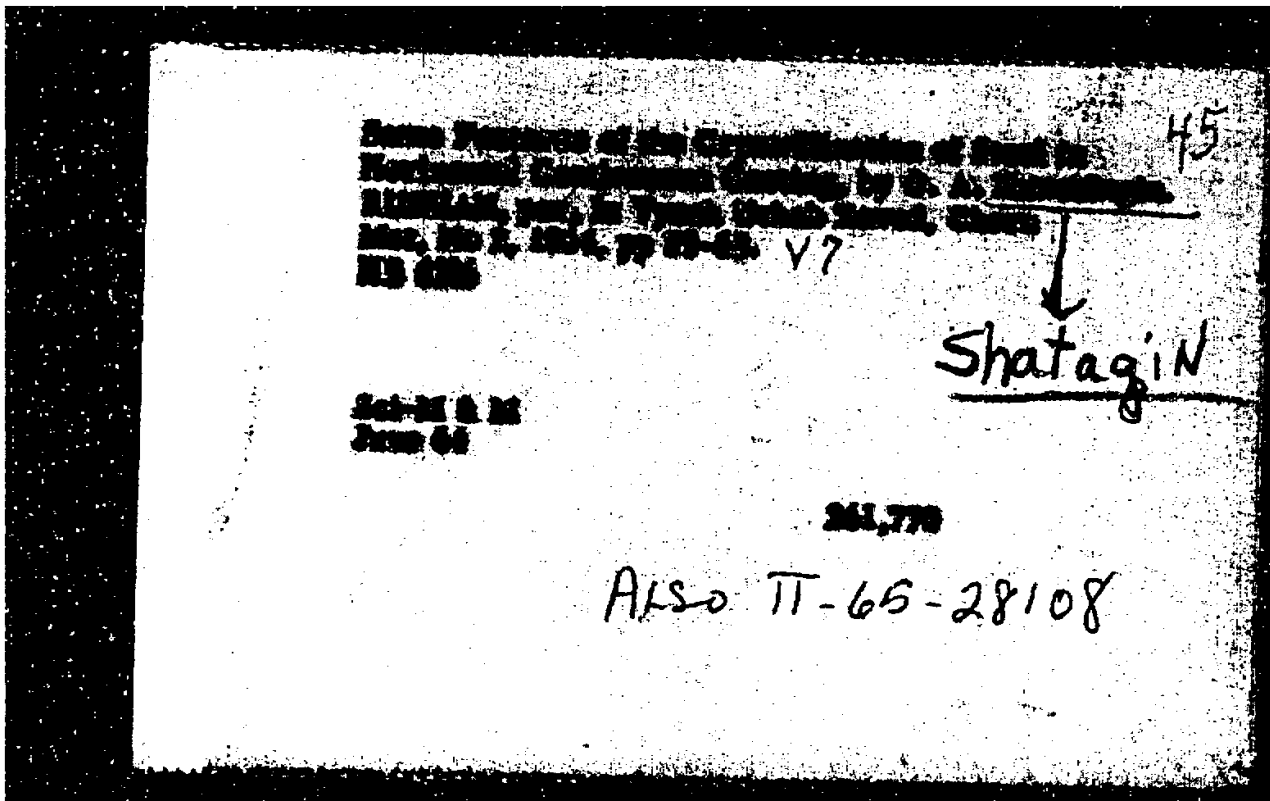
JPRS 6684

USSR

Pol

Feb 61

139,894



The Fall in Steel Temperature During Continuous
Casting, by V. Y. Genkin, O. A. Shatagin.

RUSSIAN, per, Metallurg, No 11, 1959, pp 17-.

BISI 1651

Sci - Min/Met

Aug 60

124,054

Experience of the Fabrication of a Welded Blast
Furnace using, by D. P. Lebedev, A. A. Shatalov,
L. B. Treilman, 6 pp.

USSR, 1957, Avances in Welding, No. 2, 1957,
pp. 1-6.

UNFA

180 111

1957

1957

Shatakhyan, M. P. and Babayan, E. V.
FOCAL LEUKOCYTOSIS IN ACUTE APPENDICITIS.
[1963] [7p] 4refs FASEB Manuscript no. S 199-3.
Order from OTS, SLA, or ETC \$1.10 TT-63-24479

Trans. of Sovetskaya Meditsina (USSR) 1963, v. 26,
no. 1, p. 111-113. (Abstract available)

DESCRIPTORS: *Leukocytes, *Diseases, *Inflamma-
tion, Medical examination.

Examination was made of the focus of inflammation of
127 patients with various forms of acute appendicitis to
investigate the relation between the leukocyte reaction
and the disease. Leukocytosis was evident in most
patients. More specifically, the deeper the inflam-
matory process in the wall of the vermiform appendix,
the more infrequent and less evident was the leukocyte
reaction at the inflammatory focus as compared with
(Biological Sciences--Pathology, TT, v. 11, no. 5)
(over)

TT-63-24479

1. Title: Appendicitis
2. Title: Leukocytosis
3. Title: Vermiform appendix
- I. Shatakhyan, M. P.
- II. Babayan, E. V.
- III. FASEB-S-199-3
- IV. Federation of American Societies for Experimental Biology, Washington, D. C.
- V. Scripta Technica, Inc. Washington, D. C.

011541
Office of Technical Services

FIND. PRODUCT IN SOCIALIST PRODUCTION, BY
S. SHARON, 3 PP.

RUSSIAN, NP, ECON REVIEW, NO 38, 21 SEP 1962, P 31.

578 2172

USSR
ECON
DEC 63

213,341

Coprecipitation of Cesium with Sparingly Soluble
Diacrylamines, by I. M. Korozman, G. A. Shatalina,
6 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XIII, No 3, 1958,
pp 299-303.

Consultants Bureau

Sci - Chem

82,096

Mar 59

**Photochemical Transformation of F-Centers in KCl
Crystals at High Temperatures, by Shatalov**

**RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol XCII,
No 3, 1953, p 549. CIA 4007333**

NSF.Tr 198

**Scientific - Chemistry
CTS/DEX**

9273

117
Photochemical Conversion of Color Centers in
Heated Crystals of Potassium Chloride, by
A. A. Shatalov, 11 pp.
RUSSIAN, per, Zhurnal Eksperimental'noy i
Teoreticheskoy Fiziki, Vol 29, No 6 (12), 1955,
pp 847-856. F100172268-V
PTD-MT-24-217-67

A. A. Shatalov

Sci/Phys
Aug 68

364,776

Relation Between the Diffusion Coefficient and the
Mobility of the F Centers in Alkali Halide Crystals,
by A. A. Shatalov.

RUSSIAN, per, Nauk Povolozhennys, No 1, 1956,
pp 15-17.

AFC/SCL-T-438

Sci - Mat/Met

Apr 63

226,777

Properties and structure of the initial
aggregations of F-centers in the process of their
colloidal coagulation, by A. A. Shatalov, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol
XXII, No 11, 1956, pp 1324-1328.

Columbia Tech

Sci

Jan 60

106,835

Photochemical Conversion of Color Centers in
Heated Alkali-Halide Crystals, by A. A. Shatalov,
13 pp.

RUSSIAN, per, Optika i Spektroskopiya, Vol III,
No 6, 1957, pp 610-618.

SLA 59-10777

Sci - Physics
Sep 59
Vol 2, No 1

97,792

Quantum Efficiency of Photochemical Transformation of F-Centers in Heated KCl Crystals, by A. A. Shatalov, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XX, No 4, Apr 1956, pp 488-492.

Columbia Tech

CTT

Sci - Physics
May 57

48,184

The Diurnal Rhythm of Working Efficiency in Man,
by I. G. Vasil'ov, L. P. Zinnitskaya, E. L.
Sklyarchik, K. M. Smirnov, B. G. Filippov,
S. A. Kaitun and A. M. Shatalov, 6 pp.

RUSSIAN, per the Zhur USSR imeni I. M. Sechenova,
Vol XLIII, No 9, 1957, pp 817-824.

Pergamon Inst

Ec1 - Med
Nov 50

76, 111

STRUCTURAL METHODS IN THE THEORY OF CONTROL AND
ELECTRIC AUTOMATION, BY A. S. BARTALOV, 123P PP

RUSSIAN, IN, STRUKTURNYE METODY V TEORII
UPRAVLENIYA I ELEKTROAVTOMATIKE, MOSCOW, 1962,
PP 1-108.

JUN 1963

SCI - MISC

MAY 63

229,690

Electrochemical Investigation of the Passivation of
Zirconium in Acid Solutions, by A. Ya. Shatalov,
T. P. Bondareva, 7 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIV, No 11,
1961, pp 2487-2495.

CB

Sci

Jul 62

205,177

Anodic Oxidation of Some Intermetallic
Compounds, by A. Ya. Shatalov, L. E. Tsygankova.
RUSSIAN, per, Elektrokhimiya, Vol 1, No 9,
1965, pp 1118-1123.
SLA TT-66-10423.

A Ya. Shatalov

Sci-Chem
Jul 66

305,555

Shatalov, A. Ya., Sentsova, V. P., and Klyuchnikov, V. R.

INVESTIGATION OF ELECTRICAL CONDUCTANCE IN BORIC ACID - AMMONIA - ETHYLENE GLYCOL SYSTEM (Issledovanie Elektroprovodnosti v Sisteme Bor'naya Kislot'a-Ammiak - Etilenglikol'). July 61 (4p. RTS 1853.

Order from OTS or SLA \$1.10

61-27190

Trans. of Vsesoyuznoe Khimicheskoe Obshchestvo. Zhurnal (USSR) 1960, v. 5, no. 3, p. 346-347.

DESCRIPTORS: *Electrolytes, Electrical conductance, Resistance, *Boric acids, *Ammonia, *Glycols, Ethylenes.

The resistivity of the H_3BO_3 - ammonia - ethylene glycol system reaches a maximum value with pure ethanediol. When H_3BO_3 or ammonia is added, the conductance of the solutions rises rapidly. (Extracted) (Chemistry--Physical, TT, v. 6, no. 6)

61-27190

- I. Shatalov, A. Ya.
- II. Sentsova, V. P.
- III. Klyuchnikov, V. R.
- IV. RTS-1853
- V. Department of Scientific and Industrial Research (Gr. Brit.)

Office of Technical Services

Influence of Oxidizing Agents on the Inhibiting
Properties of Phosphates, by A. Ya. Shatalov,
I. K. Marabakov, T. A. Rubtsova, 5 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 5,
1960, pp 1030-1035.

CB

Sci

Apr 61

149,643

Irreversible Potentials and Corrosion Resistance
of Metals, by A. Ya. Shatalov.

RUSSIAN, per, Trudy Inst Fiz Khim Ak Nauk SSSR,
No 5, 1955, pp 237-266.

BISI 1442

Sci - Min/Met

Dec 60

134,021

On the Influence of pH on the Electrochemical
Behavior of Metals and Their Resistance to
Corrosion, by A. Ya. Shatalov,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXXXVI,
No 4, 1952, pp 775-777.

20,849

RT-4112
Co-op Tr Sch No 98
Ll. 4s (3s Od.)

Chemistry
Scientific - ~~Microbiology~~ Feb 55 CTS

Sci Mus Lib 56/1891

The Measurement of Forces With Spring Dynamometer
in Machines With Cyclic Loads, by K. T. Shatalov
10 pp.

RUSSIAN, per, Zavod Lab, Vol XXVI, No 8, 1960,
pp 990-998.

ISA

Sci

Jun 61

156,294

Near the Powerful GES, by M. Shatalov, P. &
Chernushchenko, 4 pp.

RUSSIAN, mp, Pravda, 14 Sep 1962, p 3.

JPRS 16265

Sci - Electronics

Nov 62

Calculation of Errors in Comparing Frequencies
by Means of Lissajous Figures, by M. I. Shatalov,
3 pp.

RUSSIAN, per, Izmeritel Tekh, No 3, 1959,
pp 46-47.

Instru Soc of Amer

Sci

Jun 60

117,678

The Problem of the Clinical Aspects of Acute Phenyl-
hydrazine Intoxication, by A. A. Orlova,
I. K. Shatalov, 8 pp.

RUSKIAN, per, Gig Truda i Professional
Labelev, Vol II, No 2, Mar-Apr 1958,
pp 12-16.

JPRS 15572

Sci - Med
Oct 62

215,595

(NY-6636)

Some Data on the Occupational Pathology of
Persons Servicing Ultrasonic Power Units,
by N. N. Shatalov, M. N. Ryzhkova, L. A. Kozlov,
K. K. Glotova, V. M. Grigor'yeva, 8 pp.

RUSSIAN, per, Gig Truda i Professional Zabel,
No 7, 1961, pp 28-32.

JPRS 10083

Sci - Med

171, 128

Oct 61.

Experimental Talcum Pneumoconiosis, by N. M.
Shatalov, 4 pp.

Full tr

RUSSIAN, no par, Izvestiya Akad. Nauk SSSR Biol. i Med., Vol XLI,
No 2, Feb 1976, pp 74-76.

Consultants Bureau

Sci - Medicine
~~700-000~~ CTS/cax Jan 1957 43,006

(SF-1879)

Academy of Sciences Institutions News Items, by V. P. Shatrov, N. F. Bakeyev, E. I. Cherepov, 7 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, No 6, 1961, pp 90-94.

JPRS 10392

Sci - Misc.

172, 015

Oct 61

Emulsion Polymerisation of Butadiene-Styrene Rubbers
in Systems Containing Modified Rosin Soap, by V. P.
Shatalov, E. N. Popova, T. V. Gergasovich, 3 pp.

RUSSIAN, per, Kauchuk i Rezina, Vol XIX, No 7, 1960,
pp 6-9.

RAPRA

Sci -
Apr 61

146,549

Copolymerization of Styrene Oxide with Butadiene,
by F. G. Ponomarev, A. F. Troitskiy, V. P.
Shatalov, 3 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 1,
1960, pp 254-.

A
CB

Sci

140,582

Feb 61

Inhibiting the Polymerization of Styrene, by
A. E. Khevolny, V. P. Shatalov, 3 pp.

RUSSIAN, per, Kauchuk i Rezina, Vol. XIX, No 4,
1960, pp 9-11.

For Assoc of British Rubber Manu

Sci

Dec 60

133,260

An Elektrochemical Study of the Passivation of
Niobium and Vanadium, by A.Ya. Shatalov, T.P. Bondareva,
et al, 6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXVI, No 3, 1963,
pp 588-593.

CB

Sci

May 64

258,407

On the State of the Cardiovascular System
under Conditions of Exposure to Continuous Noise,
by N. N. Shatalov, A. O. Saitanov, et al,

5 pp.

~~RUSSIAN~~, per, Higiena Truda i Professional'nyye
Zabolevaniya Vol VI, No 7 1962, pp 10--14.

9224139

DRU Canada

T 411 R

NAC C-5705

Sci-B/M

Apr 65

278,459

The Metallogeny of Ore Districts, by Ye. T. Shatalov,
13 pp

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geolog, No 9, 1958

Amer ~~Inst~~ Geolog Inst

Sci

124,399

On the Possibility of Quantitative Determination of
Chromoproteins by the Radiometric Method, by A. A.
Shatalova, G. I. Mayerov, Ya. R. Savinskiy, 5 pp.

RUSSIAN, per, Biokhim, Vol XXV, No 4, 1960, pp 577-
583.

CB

Sci -
May 61

152,815

A Radiometric Method for the Quantitative Assay
of Hippuric Acid in Urine, by A. A. Shatalova,
G. I. Meyerov, 4 pp.

~~R~~USSIAN, per, Biokhim, Vol XXVI, No 3, 1961,
pp 444-447.

CB

Sci
Apr 62

194,579

Determination of Chlorides in Plasma and Blood by
the Radiometric Method, by A. A. Shatalova, G. I.
Meyerov, 3 pp.

RUSSIAN, per, Biokhim, Vol XXV, No 5, 1960,
pp 769-772.

CB

Sci

May 61

152,932

Physico-chemical Principles of Vibratory
Compacting, by I. G. Shatalova.

RUSSIAN, bk, Fiziko-khimicheskie osnovy
vibratsionnogo uplotneniya poroshkovykh
materialov.

*CB

1st quarter of 1966

May 65

An Investigation of the Principles in Vibration
Pressing of Powder Metal Materials, by
N. S. Gorbunov, I. G. Shatalova, et al, 10 pp.

RUSSIAN, bk, Issledevaniya po Zharoprochnym
Splavam, Vol VIII, ~~REDACTED~~ Moscow, 1962,
pp 103-110.

JTRS 16269

Sci - M/M

Nov 62

217,348

Fertilizing Under Winter Rye in Occupied Fallows,
by M. Ye. Pronin, M. I. Shatalova, 10 pp. 19
RUSSIAN, per, Khm v Sel'skoye Khoz, No 2, 1964,
pp 10-13.
JPRS 25528

Sci - Agri, Chem
Aug 64

264,743

The Effect of Temperature on the Corrosion Rate
of Metals in Acid Media, by V. A. Khitrov, V.
I. Shatalova, I. S. Smol'yaninov, 4 pp.

USSR

RUSSIAN, per, Dok Ak Nauk, Vol CXXXIII,
No 4, 1960, pp 886-888.

CB

Sci

149,181

Apr 61

89

Lubricating-Cooling Liquid for Cold Working
of Metals, by Ye. V. Shatalova
RUSSIAN, patent: 201575, class 23
*FTD-HT-23-582-68A

Sci-Materials
Aug 68

Ye V Shatalova

Lunar Diurnal Variation of the Neutron Component of
Cosmic Radiation and the Question of its Origin by
L. I. Dorman and L. Kh. Shatashvily, pp. 6

RUSSIAN, per. Geomagnet i Aeron, Vol 1, No 5, 1961

AGU

Sci

340,748

Jun 63

The Isomerization of Monodeuteronaphthalenes, by
A. Korolev, A. Shtenshtein, E. Yurygina, V.
Kalinachenko, P. Alikanov, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVI, No 6,
Jun 1956, pp 1666-1671.

Consultants Bureau

Sci - Chemistry
Jul 57

49,671

Shatenshtein, A. I. and Izraelvich, E. A.
COMPARISON OF DEUTERO EXCHANGE AND
METALATION OF ALKYL BENZENES. [1962] [9]p.
30 refs.
Order from OTS or SLA \$1.10 63-15923

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1958
(v. 32) no. 12, p. 2711-2716.

DESCRIPTORS: *Metalorganic compounds, *Potassium
compounds, Amides, *Alkyl radicals, *Benzenes,
*Deuterated compounds, Exchange reactions, *Metal-
tion, Reaction kinetics

The rate of deuterio exchange between a solution of
potassiumide (0.02N) in liquid deuterioammonia and the
aromatic rings and alkyl groups of the following alkyl
benzenes: $C_6H_5CH_3$, iso- $C_6H_5C_3H_7$, tert- $C_6H_5C_4H_9$,
and n- $C_6H_5C_4H_9$ has been measured at 25, 10, and 0°C.
It has been found that deuterio exchange and the metals-
(Chemistry--Physical, TT, v. 10, no. 1) (over)

63-15923

I. Shatenshtein, A. I.
II. Izraelvich, E. A.
III. Translations, New York

Office of Technical Services

COMPARISON OF THE ELECTRON-ACCEPTOR AND
ELECTRON-DONOR PROPERTIES OF SUBSTITUENTS IN
THE AROMATIC RING BY THE DEUTERIUM EXCHANGE
METHOD, BY A. I. SHATENSHTEIN, YU. I. RANNEVA,
6 PP.

RUSSIAN, PER, ZHUR OBSHCH KHIM, VOL XXXII, NO 3,
1962, PP 967-973.

CB

SCI
FEB 63

221,5.6

Shatenstein, A. I.

**ISOTOPIC EXCHANGE AND THE REPLACEMENT
OF HYDROGEN IN ORGANIC COMPOUNDS. [1962]
324p.**

Order from CB \$19.50

Trans. of mono. [Izotopnyi Obmen i Zameshchenie
Vodoroda v Organicheskikh Soedineniyakh v Svete
Teorii Kislot i Osnovanii, Moscow, 394p.].

DESCRIPTORS: *Isotopes, *Deuterium, Organic com-
pounds, *Organic solvents, Hydrocarbons, *Ammonia,
*Halides, *Hydrogen, *Exchange reactions, Catalysis,
Chemical bonds, Acid-base equilibrium.

(Chemistry--Organic, TT, v. 8, no. 6)

62-22044

I. Shatenstein, A. I.
II. Consultants Bureau
Enterprises, Inc.,
New York

C222937

Office of Technical Services

Isotopic Exchange and the Replacement of Hydrogen
in Organic Compounds, by A. I. Shatenshtein, 311 pp.

RUSSIAN, bk.

CB

Sci - Chem

Apr 62

189,799

Kinetic Isotope Effect on Deuterium and Tritium
Exchange in Liquid Ammonia, by P. S. Yakushin,
A. I. Shatenshtein, 7 pp.

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00929R000201010070-3

Reaction Exchange Between Liquid D₂O and Energized
Alkanes, by I. Shatenstein, V. R. Kalinachenko,
B. M. Kovyshin, V. M. Basmanova, 7 pp

RUSSIAN, per. Zhur Obshch Khim, Vol XXIX, No 3,
1959, pp 849-854

Consultants Bureau

Sci

Apr 60

115,242

APPROVED FOR RELEASE: 2005/08/09 CIA-RDP91-00929R000201010070-3

AEC-tr-4497(p.1-8) Uncl.

INVESTIGATION OF THE INTERACTION OF ATOMS BY
THE METHOD OF DEUTERIUM EXCHANGE. (PHENOL
AND ITS ETHERS AND AROMATIC AMINES). A. I.
Shatenshtein and A. V. Vedeneev. Translated from
Trudy Vsesoyuz. Nauch.-Tekh. Konf. po Primenen.
Radioaktiv. i Stabil. Izotopov i Izlucheni v
Narod. Khoz. i Nauke, Moscow, 1957 (1958).
Izotopy i Izlucheniya v Khim., p.7-12.

C-4 P NSA

N-4

A Comparison of the ^{*}Rate of Hydrogen Exchange With
Protophilic Solvents, by A. I. Shatenshtein, E. A.
Yakovleva, 10 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 7,
1958, pp 1713-1721

3

Consultants Bur

Sci - Chem
Sep 59

96,844

A. Photographic Method for Measuring the Intensity
of the Color of Solutions in Small Volumes, by
Ya. M. Varshavskiy, A. I. Shtenshtein, 6 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XIII, No 3, 1958,
pp 294-298.

Consultants Bureau

Sci - Chem

Mar 59

82,094

The Vibrational Spectra of Diphenyl and Deuterio-Diphenyl, by G. S. Landsberg, A. I. Shtenshtein, G. V. Peregudov, E. A. Izraelvich, L. A. Novikova, 2 pp.

RUSSIAN, dimo per, Iz Ak Nauk SSSR, Ser Fiz, Vol XVIII, No 6, 1954, pp 669-671. CIA C 40664

Columbia Tech Tr

Scientific - Physics 31,702 Feb 56 CTB/DEX

Methods for the Isotopic Analysis of Water. 4. A
Method for the Complete Isotopic Analysis of Water,
by A. I. Shatenshtein, E. A. Yakovleva, S. F.
Suzdaltseva, and N. P. Antipova, 4 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XII, No 3, 1957,
pp 398-401.

Consultants Bur

Sci - Chem

May 58

64,894

Isotopic Water Analysis, by A. I. Shtenshtain,
E. A. Yakovleva, E. N. Zvyaginsteva, Ya. M.
Varshavskiy, E. A. Izrailevich, N. M. Dykhno,
304 pp.

RUSSIAN, rpt, 1957.

AEC Tr-4136

Sci - Geophys
May 61

150,347

A Comparison of the Kinetics of Deuterium Exchange
and Other Reactions, by A.I. Shatenstein, 4 pp.

RUSSIAN, per, Zhur Fiz Khim, No 3, 1960, pp 594-602.

Cleaver-Hume Press

Sci
Jan 61

135,265

Sur la Nature de l'Echange Isotopique de l'Hydrogene
Dans les Solutions, (On the Nature of Isotopic
Exchange of Hydrogen in Solutions), by A. I. Shatskiy
Shatskiy, 88 pp.

RUSSIAN to FRENCH, per, Uspekhi Khim, Vol XXVIII, No 1
1959, pp 3-32.

Reverse Trans
CEA Tr-R-1207

Sci
Jun 61

The Synthesis of Some Deuterated Aromatic Hydro-
carbons and their Raman Spectra, by A. I. Shatenshtein. 76

RUSSIAN, par. Zh Fiz Khim, Vol 32, No 1, 1958,
pp 146-151.

HEW-NIE

12-4-67

A. I. Shatenshtein

Sci/B & M
Feb 68

309,425

Mar 62

) Comparison of Bromides and Catalysts of Deuterioexchange
of Aromatic Compounds with Liquid Deuterium Bromide.,
by A. I. Shatenshtein, K.I. Zhdanova, V.M. Basmanova,
4pp.

RUSSIAN, per Zhur Obshch Khim,
Vol. XXXI, No.1, 1961, pp. ~~250-255~~
250-255

03

192,598

Sci

Mar 62

Factors of the Partial Rate of Exchange of Deuterium
in Dimethylaniline with a Solution of Potassamide
in Liquid Ammonia and the Mechanism of Basic
Deuterium Exchange. by A. I. Shtenentein, Yu.
I. Ranneva, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 5,
1961; pp 1423 - 1431

CB

Sci
Mar 62

1917932

A Study of the Acid-Base Reaction between Aromatic
Amines and Carboxylic Acids by the Deuterium
Exchange Method, by A.I. Shatenshtein,
E. N. Avyagintseva, Z.N. Ovchinnikova, 8 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 5,
1961, pp 1432 - 1439

CS

Sci
Mar 62

191.934

S-124/60

(NY-3694).

On the Effect of the Charge of the Substance
and the Dielectric Constant of the Solvent Upon
the Velocity of Hydrogen Exchange, by A. I.
Shatenstein, Ye. A. Yakovleva, 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CV, No 5,
1955, pp 1024-1027.

JPRS 2634

Sci - Chem
May 60

116,682

The Production of Protium and Protium Oxide, by L. M. Yakimenko, A. I. Shtenshtein, M. A. Rabinovich, 11 pp.

Zhurj
RUSSIAN, per, Neorgan Khim, Vol II, No 11, 1957,
pp 2507-2512.

ABC-tr-4061
PL-480

Sci

Jun 61

PST 88

155, 400

The Mechanism of Hydrogen Exchange of Aromatic
Compounds With Bases (Factors Governing the Partial
Rate of Deutero Exchange of Diphenyl Ether with
Potassium Amide in Liquid Ammonia), by A. I. Shsten-
shtein, A. M. Talanov, Yu. I. Ranneva, 6 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol. XXX, No 2, 1960,
pp 583-589.

03

Sci

May 61

154, 081

Catalysis of Deuterium Exchange in Liquid Hydrogen
Iodide by Iodine, by A. I. Ghetenshtein, P. P.
Alikhanov, 7 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 3, 1960,
pp 998-998.

CB

Sci -
Apr 61

147,591

The Proton Mobility of Hydrogen Atoms in
Aromatic Hydrocarbons with Aliphatic
Substituents, by A. I. Shatenshtein, N. A.
Israilevich, 5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII,
No 11, 1958, pp 2939-2943.

. Consultants Bureau

Sci

Dec 59

103,148

Study of the Reactivity of Cyclopropane Hydrocarbons by Means of Deuterium Exchange With a Solution of Potassium Amide in Liquid Ammonia, by A. I. Shatenshtein, E. A. Yakovleva, M. I. Rikhter, et al, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 10, 1959, pp 1805-1812.

CB

Sci

157, 979

Jun 61

Absorption Spectra of Carbanions, by I. V.
Astaf'ev, A. I. Shatenshtein, 4 pp.

RUSSIAN, per, Optika i Spektro, Vol VI, No 5,
1959, pp 631-636.

Optical Society
of America

Sci

Dec 59

103,822

Echange de Deuterium Entre le DBr Liquide et les Alcanes Renfermant le Groupement Phenyl, (Exchange of Deuterium Between Liquid DBr and Alkanes Bound to the Phenyl Group), by A. I. Shatenshtein, V. P. Kalinachenko, E. N. Yurigena, V. M. Basmanova, 16 pp.

RUSSIAN to FRENCH, per, Zhur Obsch Khim, Vol XXIX, 1959, pp 849-855.

Reverse Trans
CEA Tr-R-864

Sci
25 Jan 61

The Reciprocal Effect of Atoms in the Molecules
of Some Ethylenic Hydrocarbons as Indicated
by Hydrogen Isotope Exchange Experiments, by
A. I. Shatenshtein, L. N. Vasilyeva,

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCVI,
1954, pp 115-118.

Consultants Customs Tr
ECT-194B
\$21.00

Sci - Phys

Mar 59

83,453

Catalytic Reactions at the Surface of Solid Calcium
and Potassium Amides, by A. I. Shatenshtain, Yu. G.
Dubinskiy, E. A. Yakovleva, I. V. Gostunskaya, B. A.
Kazanskiy, 3 pp.

RUSSIAN, per, Izd Ak Nauk SSSR, Otdel Khim ~~Matk~~,
No 1, 1958, pp 104-105.

Consultants Bureau

ATS RJ-1236

Sci - Chem

May 59

86,877

Physico-Chemical Investigations of Solutions in Liquefied Gases. 29. The Catalytic Activity of Nitro-Indicators in Liquid Ammonia. Salt Effect in the Ammonolysis Reaction of Pilocarpine, by E. A. Israilevich, A. I. Shatenshtein, 19 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XVII, No 1, 1943, pp 24-31.

Sci Tr Ctr RT-3486

Scientific - Chemistry

34,865

May 56 CTS/dex

A

The Dehydration of Magnesium Chloride With Liquid
Ammonia, by A. M. Monoszon, E. N. Guryanova,
A. I. Shtenshtein, 7 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Khim Prom, Vol XII, 1935,
pp 279-281.

20.071

~~SECRET~~
ABO-Tr-1968

Scientific - Chemistry

Nov 54 CTS/DEX

10 946

Fr-1

SHATENSHTEIN A. I., KALINACHENKO V. P.,
YURIGINA E. N.

Exchange of deuterium between liquid DBr and alkanes
comprising the phenyl group

Echange de deutérium entre le DBr liquide et les alcanes
renfermant le groupement phényl

Zhur. Obshchei Khim., 29, No. 3, 849-855 (1959)

CEA- R 864 - French

E u r a t o m

S-172/60

(DC-3524).

Hydrogen Exchange of Phenol and Its Ethers With
Solutions of Potassium Amide in Liquid Deutero-
ammonium, by A. I. Shatenshteyn, A. V. Vedencyev, 14 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol. XXVIII, No 10,
1958, pp 2644-2652.

JPRS 3375

118,667

Sci - Chem
Jun 60

Shatenshteyn, A. I. and Vedenev, A. V.
ECHANGE D'HYDROGENE ENTRE LE PHENOL ET
SES ETHERS ET LES SOLUTIONS D'AMIDURE DE
POTASSIUM DANS LE DEUTERO-AMMONIAQUE
LIQUIDE [Vodorodnyi Obmen Fenola i ego Efirov s
Rastvorami Amida Kaliya v Zhidkom Deuteroammiake]
(Hydrogen Exchange Between Phenol and Its Ethers and
Potassium Amide Solutions in liquid Deutero-Ammonia)
tr. by M. Simon. 23 Feb 60(21)p. 23 refs. CEA Trans.
no. R 827 (text in French).

Order from OTS or SLA \$2.60

61-23795

Trans. in French of #Zhurnal] Obshch[ei] Khim[ii]
(USSR) 1958, v. 28 [no. 10] p. 2644-265 [2]. A trans-
lation in English is available from OTS \$0.50 as
60-31242; JPRS: 3375, 10 June 60, 14p.

For abstract see Technical Translations 4: 385, 1960.

DESCRIPTORS: *Exchange reactions, Deuterated
compounds, *Phenols, Ethers, Potassium compounds.
(Chemistry--Organic, TT, v. 6, no. 5)

61-23795

- I. Shatenshteyn, A. I.
- II. Vedenev, A. V.
- III. CEA-tr-R827
- IV. Commissariat a l'Énergie
Atomique (France)

Office of Technical Services

S-171/60

(DC-3524).

The Hydrogen Exchange of Phenol, Its Ethers, and Aromatic Amines With Liquid DBr, by A. I. Shtenshteyn, et al, 12 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 10, 1958, pp 2638-2644.

JPRS 3374

118,666

Sci - Chem
Jun 60

Shatenshtein, A. I., Vedenev, A. V., and
Alikhanov, P. P.
ECHANGE DE L'HYDROGENE DANS LE PHENOL, SES
ESTERS ET LES AMINES AROMATIQUES AVEC DU
D₂O LIQUIDE [Vodorodnyi Obmen Fenola, yego Efirov i
Aromaticheskikh Aminov s Zhidkim D₂O] (Exchange of
Hydrogen in Phenol, its Esters, and Aromatic Amines
with Liquid D₂O) tr. by M. B. De Trezvinsky. 15 Dec 59
[20]p. 20 refs. CEA Trans. no. R 787 (text in French).
Order from OTS or SLA \$1.60 61-23767

Trans. in French of #Zhurnal] Obshch[e]l] Khim[ii]
(USSR) 1958, v. 28, no. 10, p. 2638-2644].
A translation in English is available from OTS \$0.50 as
60-31241, JPRS-3374, 10 June 60, 12p.

DESCRIPTORS: *Exchange reactions, *Deuterated
compounds, *Phenols, Amines, Esters.

For abstract see Technical Translations 4: 256-257,
1960.

(Chemistry--Organic. TT. v. 6. no. 6)

61-23767

I. Shatenshtein, A. I.
II. Vedenev, A. V.
III. Alikhanov, P. P.
IV. CEA-tr-R787
V. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

Definitions of the Concepts of "Acid" and "Base", by
A. I. Shatenstein, 18 pp.

RUSSIAN, per, Zhur Obshch Khim, No 9, 1939,
pp 1603-1610.

AEC Tr 2093

Scientific - Chemistry

Mar 55 CTB/DEX

22,525

S-170/60

(DC-3517).

Semi-Micromethod for the Isotopic Analysis of
Compounds Having a Deuterium Content Close to
100%, by A. I. Shatenshteyn, Yu. I. Antonchik, 5 pp.

RUSSIAN, per, Zhur Anal Khim, Vol XIV, No 1, 1959,
pp 100-103.

JPRS 3196

Sci - Chem
May 60

115,351

S-116/60

(DC-3608).

On the Mechanics of \widehat{H} Hydrogen Exchange in
Solutions, by A. I. Shatenshteyn, 11 pp.

UKRAINIAN, per, \otimes Ukrain Khim Zhur, Vol XXII,
No 1, 1956, pp 3-10.

JPRS 3332

Sci - Chem
Jun 60

117,285

S-163/60

(DC-3527).

Effect of Pi-Electrons in Hydrocarbon Molecules
on the Hydrogen Isotope Exchange in These
Molecules During Potassium Amide Catalysis, by
A. I. Shatenshteyn, Ye. A. Izrailevich, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CVIII, No 2, 1956,
pp 294-297.

JPRS 3190

Sci - Chem
May 60

115,344

S-91/60

(NY-3574).

The Production of Deuterium Oxide and the
Determination of Its Density, by A. I. Shatenshteyn,
L. M. Yakimenko, V. R. Kalinachenko, Ye. A.
Yakovleva, 16 pp.

RUSSIAN, per, Zhur Neorg Khim, Vol II, No 5, 1957,
pp 985-994.

JPRS 2499

114,721

Reverse Trans Rus to Fr
AEC/CEA-Tr-R367

Sci - Chem
Apr 60

Methods for the isotopic analysis of water by the
Flotation Method With an Accuracy of ± 0.2 y.

by A. I. Shatenshtein and B. N. Zvyagintseva,
3 pp.

RUSSIAN, per, Zhur ^{АИИ} ~~ЕВЕР~~ Khim, Vol ^{XII} ~~XXX~~, No ¹ ~~9~~,
1957, pp 516-522.

Consultants Bureau

Sci - Chem

Aug 58

61, 118

Methods for Isotopic Analysis of Water. Communication
5. A ~~Flota~~ Float Method for Measuring Density
Difference With an Accuracy Within ± 0.2 y.

The Study of the Amination of Organic Halogen
Compounds in Liquid Ammonia, 2. The Reaction
Between Liquid Ammonia and Lower Alkyl Halides,
by N. S. Spasokukotskiy, G. S. Markova,
A. I. Shtenshtein, 29 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XV,
No 2 1/2, 1945, pp 42-59.

Sci Ma Lib No 54/2913
Natl Arch/TT 443
Scientific - Chemistry

Nov 1954 CBS

19,697

The Physicochemical Constants of 1,2-Chlorofluorethane,
by A. I. Shatenshtain and Ya. M. Varshevsky, 5 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXII, No 7,
Jul 1952, pp 1116-1121.

Consultants Bureau

USSR

Scientific - Chemistry

Feb 54 CTS

9692