

J-4986

(DC-2949).

Egyptian Literature at a New Stage, by A. F.  
Sultanov, 15 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Literatur' ;  
Yaz'ka, Vol XIV, No 1, 1955, pp 63-72.

JPRS-L-1791-D

NE/A - Egypt  
Soc - Culture, Egyptian Literature  
Jul 59

92,859

Experimental Investigation of Relaxation Processes  
Which Arise When Ultrasonic Waves Pass Through  
Liquids, by Yu. N. Bormosov, V. F. Nozdrev, V. D.  
Sobolev, A. M. Sultanov, 6 pp.

RUSSIAN, qu per, Akust Zhur, Vol II, No 2, Apr-Jun  
1956, pp 118-123.

American Inst of Physics  
Vol II, No 2,  
Soviet Physics, Acoustics

"48, 489

Sci - Physics  
Jun 57

57  
Preliminary Refining of High-Acid Cotton-  
seed Oil by Urea, by A. S. Sultanov, et al.  
RUSSIAN, per, Trudy Vses. Nauch.-Issled. Inst.  
Zhirov, No 23, 1965, pp 280-285,  
NLL Ref: 5828.4 1965 (5794)

*A. S. Sultanov*

USSR Agric  
June 66

302,242

Unpublished translation of Russian to English, by  
A. B. Sultanov, V. A. Malenikhova, 3 pp.

RUSSIAN, per. Zhur Prikl Khim, Vol XXII, No 1,  
1959, pp 595-596.

Consultants Bureau

Sci

May 60

118, 202

Mechanism of the Reduction of Allyl Alcohol  
over Zinc and Zinc-Copper Catalysts, by  
L. Kh. Freidlin, M. F. Abidova, A. S. Sultanov,  
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 4, 1958, pp 498-499.

Consultants Bureau

Sci - Chem

Apr 60

112,292

Catalytic Reduction of Benzaldehyde, by A. S.  
Sultanov, M. F. Abidova, V. A. Maslennikova,  
5 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXVIII, No 3,  
1958, pp 787-791.

Consultants Bureau

Sci - Chem

May 59

87,390

Quantitative Hydrolysis of Sucrose, Dextrin, and  
Starch by Means of Carbon Dioxide, by A. S.  
Sultanov, Kh. U. Usmanov, 4 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXIX, No 12  
1956, pp 1726-1729

Consultants Bureau

Sci - Chem

59,416

Mar 58

Investigation of Selectivity of Catalyst Action.  
Pt. 2. Reduction of Mesityl Oxide on Copper and Zinc  
Copper Catalysts, by L. Kh. Freidlin, A. S. Sultanov  
N. P. Abidova, 4 pp.

RUSSIAN, per Ak Nauk SSSR. Otdel Khim Nauk, izvest.  
No 5, 1958, pp 640-642.

Assoc Tech Br  
79M27R

Sci - Chem  
Apr 59  
OTS, V. I, No 5

86,170

Activity of a Skeletal Iron Catalyst in Hydrogenation  
Reactions, by L. Kh. Freidlin, K. G. Rudneva, A. S.  
Sultanov, 4 pp.

Full translation.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 3, USSR, May-Jun 1954, pp 511-516. CIA D 151316

Consultants Bureau

Scientific - Chemistry

OTS 68/May 55

23,769

TT-63-20730

Sultanov, B. I. and Tagiev, Sh. M.

DEPENDENCE OF THE PERMEABILITY OF THE  
PETROLEUM RESERVOIRS UPON THE TEMPERA-  
TURE (Zavisimost' Nefteproniitsaemosti Kollektorov  
ot Temperatury). [1963] [12p] (foreign text included)  
3refs

Order from OTS, SLA, or ETC \$1.60 TT-63-20730

Trans. of Neftyanoe Khoz'yaistvo (USSR) 1962, v. 40,  
no. 1, p. 40-44. (Abstract available)

DESCRIPTORS: \*Porous materials, Models (Simula-  
tions), Sand, \*Petroleum, Permeability, Temperature,  
Test equipment, Tests, Hydraulic accumulators,

In order to study the changes in the permeability of oil  
at various temperatures, research was done on model  
beds utilizing a porous medium, sand taken from the  
outcrops of petroleum bed. Increased oil permeability,  
corresponding to raised temperature in the models was  
(Materials--Fuels, TT, v. 11, no. 3) (over)

I. Sultanov, B. I.  
II. Tagiev, Sh. M.

Office of Technical Services

Sultanov, B.I. and Tagiev, Sh. M.  
INFLUENCE DE LA TEMPERATURE SUR LA PER-  
MEABILITE AU PETROLE DES COLLECTEURS  
(Zavistimost' Neftepronitsalnosti Kollektorov ot  
Temperatury) (Relation of the Oil Permeability of  
Reservoir Rocks to Temperature). 13p. (foreign text  
included) 3refs, CNRS-VI 829.  
Order from OTS, ETC or CNRS \$0.80 TT-62-29194

Trans. in French of Neftyanoe Khozyaistvo (USSR),  
1962, v. 40, no. 1, p. 40-44.  
Another trans. is available in English from OTS or  
SLA \$1.60 as TT-63-20730, 1963, 12p (foreign  
text included).

DESCRIPTORS: \*Petroleum, Sand, \*Geology,  
Temperature, Viscosity, Porosity, Permeability.

(Earth Sciences--Geology, TT, v. 11, no. 9)

TT-62-29194

I. Sultanov, B.I.  
II. Tagiev, Sh. M.  
III. CNRS-VI 829  
IV. Centre National de la Recher-  
che Scientifique, Paris

Office of Technical Services  
European Translations Centre

DD

Sultanov, B. I.  
SOME CAUSES OF GEOTHERMAL ANOMALY IN  
THE APSHERON PETROLIFEROUS REGION. [1961]

8p.

Order from ATS \$13.00

ATS-12N58R

Trans. of Izvestiya Vysshikh Uchebnykh  
Zavedenii. Nef' i Gaz (USSR) 1961. v. 4, no. 7,  
p. 9-15.

- DESCRIPTORS: \*Geology, Geological survey,  
Geophysics, Petrology.

(Earth Sciences--Geology, TT, v. 7, no. 9)

62-12658

I. Sultanov, B. I.  
II. ATS-12N58R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

207866

Office of Technical Services

Seismic Observations in Antarctica, by S. D. Kogan,  
I. P. Passechnik, D. D. Sultanov, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR Ser Geofiz, No 2,  
1961, pp 231-237.

AGU

Sci

170, 050

Sep 61

Differences in the Periods of Seismic Waves  
Stimulated During Underground Explosions and  
Earthquakes, by S. D. Kogan, I. P. Pasechnik,  
D. D. Sultanov, 8 p.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. CXIX, No 6,  
1959, pp 1283-1286.

ICC 110

Sci - Geophys

May 60

116,644

THE EFFECT OF ACETIC ACID ON THE FUNCTION  
OF THE SUPRARENAL GLANDS UNDER THE INFLUENCE OF  
HIGH AMBIENT TEMPERATURE, BY E. L. PEREL'YAN,  
F. F. BELITSKY, 3 PP.

RUSSIAN, PER. NEIROENDOKRINNYE RYBUNENIYA,  
VOL VII, NO 4, 1963, PP 3-6.

JPRS 20011

SCI - MED & BIOL

JUL 63

E15,232

Effect on Capillary Permeability of Single and Repeated  
Overheating of an Organism, by F. F. Sultanov, 4 pp.

RUSSIAN, per, Byul Eksper Biol i Med, Vol XLV,  
No 3, 1958, pp 56-59.

Consultants Bureau

Sci - Med

Nov 58

76,941

Upper Atmosphere (Summary), by M. A. Kashkov, G. F.  
Sultanov, T. A. Eminzade, B. I. Aliyev,

RUSSIAN, per. Iz Ak Nauk Azerbaydzhanskoy SSR,  
Ser Geologograf Nauk, No 1, 1960, pp 169-174.

IGC  
OTS PB 131632-125

Sci - Geophys, Space Res  
Jun 60

117,036

Fauna of Mesotopes of Predatory Birds of Tashkent.  
Region, by M. A. Sultanov.

RUSSIAN, per, Bull Srednaziatskovo Universiteta,  
Jubilee Issue 23, pp 152-154.

INSDOC-1916

Sci - Biology  
Jul 59

91,448

Sultanov, M. Yu. and Belen'kii, M. S.  
INFLUENCE OF THE COMPOSITION ON THE PROPERTIES OF COPPER OXIDE-CHROMIUM OXIDE CATALYSTS IN THE REACTION OF THE COMPLETE OXIDATION OF n-HEPTANE. [1963] 7p.  
Order from ATS \$8.50

ATS-12Q69R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.  
Neft i Gaz (USSR) 1962, v. 5, no. 12, p. 59-64.

DESCRIPTORS: \*Copper compounds, \*Chromium compounds, Oxides, \*Catalysts, Chemical reactions, \*Oxidation, \*Heptanes, Chemical properties.

(Chemistry, TT, v. 10, no. 2)

63-17347

I. Sultanov, M. Yu.  
II. Belen'kii, M. S.  
III. ATS-12Q69R  
IV. Associated Technical Services, Inc.,  
East Orange, N. J.

63-17347

Office of Technical Services

Sultanov, M. Yu. and Belen'kil, M. S.  
EFFECT OF COMPOSITION ON THE PROPERTIES OF  
COPPER-CHROMIUM OXIDE CATALYSTS IN THE  
OXIDATION OF CARBON MONOXIDE. [1963] 8p.  
Order from ATS \$9.85  
ATS-96Q66R

Trans. of [Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.  
Nef't' i Gaz (USSR) 1962, v. 5, no. 9, p. 63-69.

DESCRIPTORS: \*Carbon compounds, \*Monoxides,  
\*Oxidation, Copper catalysts, \*Catalysts, Chromium  
compounds, Oxides, Gases.

(Chemistry--Physical, TT, v. 9, no. 10)

63-12845

- I. Sultanov, M. Yu.
- II. Belen'kil, M. S.
- III. ATS-96Q66R
- IV. Associated Technical  
Services, Inc.,  
East Orange, N. J.

ATS RT-3957

Office of Technical Services

Organosilicon Compounds With Hydrocarbon Bridges  
Between Silicon Atoms. Alkylation of  $\omega$ -Cyano-  
alkyltrimethylsilanes by Halomethyltrimethylsilanes, by  
V. M. Vdovin, P. Sultanov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXVIII, No 4,  
1961, pp 831-834.

CB

Sci

195,199

May 62

THE D-451 SEMI-ROTATABLE CLAMSHELL LOADER, BY  
R. SULTANOV, 6 PP.

RUSSIAN, PER, STROITEL'NYYE I DOROZHNYYE MASHINY,  
NO 10, OCT 1962, PP 4-5.

JPR S 16432

USSR  
ECON  
SCI- ENGR  
DEC. 62

217,226

Synthesis of  $\alpha,\omega$ -Di(Cyanoalkyl)Tetraalkyldisloxanes,  
by V. M. B Vdovin, R. Sultanov, 8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVIII,  
No 6, 1959, pp 1204-1207.

CB

Sci - Chem  
Sep 60

127,757

Some Characteristics of the Advance of the Oil-  
Water Contact, by S. A. Sultanov, I. G. Poluyan,  
6 pp.

RUSSIAN, per, Neftyanoye Khozyaystvo, Vol. XXXVII,  
no 11, 1959, pp 44-48.

ATS-65844R

203,236

Sci

Jun 62

Oil possibilities of the coal-bearing horizon of the  
Baylin oil field, by A. R. Kinsikeev, I. G. Poluyan  
and S. A. Sultanov, 6 pp.

RUSSIAN, per, Geolog Miroi, Vol II, No 10-4,  
1958, pp 30-35.

Rev of Russian Geology

Sci

Dec 59

103,781

Some Characteristics of the Advance of the Oil-  
Water Contact, by S. A. Sultanov, I. G. Poluyan;  
6 p.

RUSSIAN, per, Neftyanoye Khozyaystvo, Vol XXXVII,  
no 11, 1969, pp 44-48.

ATB-894048

203,236

Sci

Jun 62

Analysis of the Condition of Development of the  
Naylia Oil Field, by I. A. Lokshin, S. A.  
Soltanov, I. O. Kulen, 11 pp.

RUSSIAN, per, Geol Nefti, Vol II, No 3-A, 1958,  
pp 5-13.

The Review of  
Russian Geology  
221 533 Harden Street  
Columbia, S. C.

Sci - Geophysics

Oct 58

74, 437

Relation of Size of Transitional Zone, by  
Oparienko, S. A. Sultanov, 3 pp.

RUSSIAN, per, Neft Khoz, No 2, 1957,  
pp 35-40.

CIA/FDD X-2748

Sci - Eng, ~~spec~~ operations of wells  
Apr 58

61,936

**A Remote Control of Field Training Equipment  
by V. Sultanov, 6 pp.**

**RUSSIAN, per, Voyennyy Vestnik, No 7, 1962.**

**ACSI T-0424-G  
ID 2191530**

**Sci**

**218,250**

**Nov 62**

Preparation and Monitoring of Large Monocrystal  
Tungsten Cathodes, by U. V. Azizov, D. N. Vasil'-  
kovskiy, V. M. Sultanov, 7 pp.

RUSSIAN, per, Radiotekh i Elektron, Vol V, No 10,  
1960, pp 1631-1635.

PP

Sci

167, 608

Aug 61

The Isoline Method, by Z. Z. Sultanova, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz, No 5,  
1959, pp 744-747.

Amer Geophys Union

Sci -  
Aug 60

12.2, 155

Processing of Observations for Earthquakes of  
Azerbaydzhan, by Z. Z. Sultanova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz,  
No 3, 1958, pp 398-404.

Azer Geophys Union

Sci - Geophys

Sep 59

99,363

*Suhtoonoy Mekhti Nadezhaf*

17

**Poisonous Rites, Treatment and Protection,**  
by Mekhti Nadezhaf, 42 pp.

**RUSSIAN, Ed. Yadevitsyye Ukooy, Lecheniye i Profilaktika,**  
**Moscow, 1964, pp 1-56.**  
**JPRS 26707**

Sci - B & M  
Dec 64

269,666

Sep 61

(NY-3000)

The OVT-1 and "L'VIV-1" OVS Blower Sprayers,  
by Ye. G. Sultan-Shakh, 3 pp.

RUSSIAN, per, Byul Tekh-Ekon Informatsii, No 2,  
1961, pp 58-61.

JPRS 10026

USSR

Econ

Sep 61

166, 796

Clouds Peer Into the Cockpit, by A. Sul'yanov,  
7 pp. FOR OFFICIAL USE ONLY

RUSSIAN, per, Aviatsiya i Kosmonavtika, No 9,  
1963. 9692286

FTD-ST-63-9

Sci

Apr 64

255,936

Training the Students in Flight Discipline,  
by A. Sul'tanov. 4 pp. UNCLASSIFIED

<sup>SP</sup>  
RUSSIAN, ~~SP~~, Soviet Aviatsiya, No 3, 7 Jan  
1970, p 2.

AF 1187229

USER  
MCI  
Jan 98

77,884

A Semiautomatic Comparator for Analysis  
Stereophotographs, by A. T. Vasilenko, M. A.  
Kulyukin, R. M. Sulyayev, et al, 7 pp.

RUSSIAN. per, Priory i Tekh Eksper, No 4, 1960,  
pp 56-62.

ISA

Sci

May 61

155, 182

Angular and Momentum Distributions of Residual  
Nuclei Produced in the Inelastic Scattering of Fast  
Pions and Protons on Helium, by M. S. Kozodayev,  
M. M. Kulyukin, R. M. Sulyayev, et al, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XXXIX,  
No 4 (10), 1960, pp 929-936.

AIP  
Sov Phys - JETP  
Vol XII, No 4

Sci

Jun 61

158,423

Interaction between 630-Mev Protons and He<sup>4</sup>  
Nuclei, by M.S. Kozodayev, M.M. Kulyukin, R.M.  
Sulyayev, A.I. Filippov, Yu.A. Shcherbakov, 6 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol  
XXXVIII, No 3, 1960, pp 708-715.

AIP  
Sov Phys - JETP  
Vol XI, No 3

Sci  
Nov 60

132, p22

Inelastic Interaction of Pions with Helium Nuclei  
at Approximately 300 Mev, by M.S. Kozodaev, M.M.  
Kulyukin, R.M. Sulyayev, A.I. Filippov, Yu.A.  
Shcherbakov, 11 pp.

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol  
XXXVII, No 2, 1960, pp 409-422.

AIP  
Sov Phys - JETP  
Vol XI, No 2

Sci  
Nov 60

132, 792

Investigation of the Structure of Strong Shockwaves in  
Hydrogen and Helium, by V. V. Zhurav, V. A. Gulyaev, 22 pp.  
RUSSIAN, per, Izvestiya Akad. Nauk, Vol. 11, No. 4, 1963,  
pp 645-657.

JPAS 38243

Sci  
Feb 64

250,617

Decree on the Establishment of Supervisory  
Boards at Industrial Firms, by Bela Balyok,  
5 pp.

HUNGARIAN, newspaper, Magyar Kozlony, No. 95,  
Budapest, 15 Dec 63, pp. 974-975

JPRS 44,219

EE(Hungary)

Economic

Jan 68

349,985

Measures to Obtain the Maximum Effect of  
Sunshine on Apple Trees, by B. Sulyok-Schulek.  
GERMAN, per, Der Erwerbsobstbau, Vol 5, 1963,  
pp 181-183.  
CSIRO/No. 7362

B. Sulyok-Schulek  
Sci -  
Jul 67 333,941

Measures to Obtain the Maximum Effect of  
Sunshine on Apple Trees, by Sulyok-Schulek, B.  
GERMAN, per, Der Erwerbsobstbau, Vol. 5, 1963,  
pp 181-183  
CSIRO/No. 73

Sulyok Schulek

Sci -  
Aug 67

335-573

Method to Determine Oxide in Primary-Aluminum Pig,  
Secondary Aluminum and Refined Aluminum, by  
P. Urech, R. Sulzberger, E. Schaad, 5 pp.

FRENCH, per, Chimie, Vol IV, Oct 1950, pp 233-235.

SLA 57-1420

May 58

63,849

Magnesium (or Zinc) Determination in Aluminium  
Alloys by Means of High Vacuum, by P. Urech,  
R. Sulsberger, 1 5 pp.

GERMAN, per, Aluminium, Apr 1954, pp 163, 164.

SLA 2440

Sci - Minerals/Metals  
Oct 57

54,036

Sulzer, G.

THE PROBLEM OF CATALYSTS AND STABILIZERS  
FOR AMIDEFORMALDEHYDE CONDENSATION  
PRODUCTS IN TEXTILE FINISHING. [1961] 5p.  
Order from SLA mi\$1.80, ph\$1.80 61-14069

Trans. of Textil-Rundschau (Switzerland) [1950] v. 5  
[no. 4] p. 144-147.

(Materials--Textiles, TT, v. 5, no. 12)

61-14069

1. Textiles--Processing
2. Catalysts--Effectiveness
3. Aminoplasts--Applications
1. Sulzer, G.

Office of Technical Services

Process for the Utilization of Atomic Energy and  
Nuclear Reactor for Carrying Out Said Process, by  
Gebruder Sulzer, 12 pp.

SWISS, Patent No 286,658.

Dept of Commerce  
Patent Office  
Sci Lib

Sci - N. Phys

207,162

Jul 62

Automation in Blast Furnaces, by H. Sulzer.

FRENCH, <sup>rpt</sup>~~xxx~~, Centre d'Etudes Supérieures de la  
Siderurgie, Apr 1962.

BISI 3080

Sci - M/M  
Apr 63

229,461

Automatic Electric Equipment for Sinter Plant, by  
E. Sulzer.

FRENCH, Paper presented to the Belgian Conference  
on "Steelworks Automation", Feb 1962.

BIGI 3054

Sci. Engr

Jan 63

List 159

2 14, 24, 1

Control of Fuel Oil Ash Deposits in Gas Turbines  
by Making Additions to Fuel Oil, by P. T. Sulzer

Full translation.

GERMAN, per, Schweizer Archiv, Vol XVIII, No 11,  
1952, pp 379-380.

Brutcher Tr No 3082

Jul 53 CTS/DEX

Scientific - Fuels

Price # \$2.25

3505

The Expansion Curve of the Resting Ventricle  
and the Effect of Strophanthin, by R. Sulzer,  
14 pp.

GERMAN, per, 2 fuer Biologie, Vol XCII, 1932,  
pp 571-578.

NIH 3-27-60

Sci - Med

May 60

117, 316

Thermoelastic Phenomena in Rubbers Based on Natural  
Latex During Cyclic Deformation, by M. P. Votinov,  
L. L. Sul'zhenko, E. V. Kuvshinskiy, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 10, 1957  
pp 2307-2313.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 10

Sci-Phys  
Jun 58

65,305

Preparative Method for a Lubricant, by  
N. K. Sul'zhenko, et al.  
RUSSIAN, Patent 183863  
\*FTD-HT-23-1290-67-E

66

*N. K. Sul'zhenko*

Sci/Materials  
Sep 67

AEC-tr-4482(p.114-31)      Uncl.

NECESSARY AMOUNT OF Co<sup>60</sup> FOR HORIZONTAL PENE-  
TRATION GAMMA-RAY LEVEL GAUGE. S. Suma and  
T. Sumi.

C-23 P NSA

Second Japan Conference on  
Radioisotopes, Feb 1958

N-4

(FDD 21099)

Thermal and X-Ray Analysis of the System  $\text{LiF} - \text{BeF}_2$ ,  
by A. V. Noselova, Ye. I. Yarembash, Yu. P. Sumanov,  
37 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, No 9,  
Moscow/Leningrad, 1952, pp 1244-1258.

CIA/FDD/U-6197

USSR

Sci - Chemistry

17,248

Jul 54 CTS

(NY-6450)

Some Problems of Track Improvement, by  
Vladislav Sumara, 10 pp.

CZECH, per, Zeleznicni Doprava a  
Technika, No 8, 1961, pp 226-228.

JPRS 11564

ESur - Czechoslovakia  
Econ  
Jan 62

17,540

(NY-4660)

Chiefs of Precincts to be Deputy Territorial Chiefs  
for Their Regions, by Sumarno, 2 pp.

INDONESIAN, np, Suara Ibukota, 1 Jan 1960, p 1.

JPRS 5442

FE - Indonesia

Pol

Oct 60

(FDD 27334)

Influence of the Medinal on the Production of Antibodies and Complement Content of the Blood of Experimental Animals During the Vaccination Period, by A. A. Sumarokov, 3 pp.

RUSSIAN, no per, Zhur Mikrobiol Epidemiol i Immunobiol  
No 12, Moscow, Dec 1955, p 78.

CIA/FDD U-8632

USSR

Sci - Medicine, Immunology

Aug 56 CTS/DEX

38,907

The Dynamic Radiation Injury In Calandra Granaria  
Under Various Irradiation Conditions, G. V.  
Sumarokov, 3 pp. *by*

RUSSIAN, per, Biofiz, Vol III, No 3, 1958,  
pp 374-376.

Pergamon Inst

Sci-Med

Mar 59

82,696

Motion of Three-Axis Gyroscopic Stabilizer in a  
Tumbler Bearing, by D. S. Fel'por, N. P. Sumarokov,  
16 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved MV1880 SSSR  
po Razdelu Priborostroyeniye, Vol V, No 2, 1962,  
pp 100-108.

JPRS 18668

Sci

Apr 63

229,039

Sumarokov, O. M., Utkin, I. A., and  
Mal'chenok, V. O.  
COMBINATION VIBRATOR FOR PERCUSSION-  
ROTARY DRILLING. [1961] 3p.  
Order from ATS \$4.00

ATS-99N54R

Trans. of Soviet certificate of authorship 132,586,  
filed 15 Feb 60.

DESCRIPTORS: \*Drilling machines, Machines,  
Vibrators

(Machinery, Fabrications and Accessory Equipment,  
IT, v. 6, no. 12)

61-25725

- I. Sumarokov, O. M.
- II. Utkin, I. A.
- III. Mal'chenok, V. O.
- IV. Patent (USSR) 132 586
- V. ATS-99N54R
- VI. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

The Injection of Blobs of Plasma Into a Magnetic  
Trap With a Field Increasing Toward the Periphery,  
by I. M. Podgornyi, V. N. Sumarokov,

<sup>per,</sup>  
RUSSIAN, ~~IEEE~~, J Nuclear Energy, Vol I, 1960,  
pp 236-239.

ABC Tr-4190

Sci - Nuc Phys  
Jan 62  
List 60

178,339

Plasma Confinement in a Trap with a Magnetic  
Field that Increases toward the Periphery, by,  
S. Yu. Luk'yanov, I. M. Poigornyy, V. N. Sumarokov,  
[ED 5.] (Y)

RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XL,  
No 2, 1961, pp, 448-451.

AIP  
SOV Phys-JETP  
VOL XIII, No 2

167,522

Sci  
Aug 61

(SF-1440)

Theoretical and Applied Magnetohydrodynamics, by  
V. E. Sumarokov, 4 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, No 11, 1960,  
pp 125-127.

JPRS 4506

Sci - Phys

May 61

150,390

Sumarokov, V. P.

FUNDAMENTAL ADVANCES IN THE STUDY OF THE  
COMPOSITION AND UTILIZATION OF TARS FROM  
THE PYROLYSIS AND GASIFICATION OF WOOD. -  
[1962] 11p.

Order from K-H \$13.75

K-H 12119-b

Trans. of Gidroliz[naya] i Lesokhim[icheskaya] Prom-  
[yshlennost'] (USSR) 1957, v. 10, no. 7, p. 21-24.

DESCRIPTORS: \*Wood, Pyrolysis, Coal tars.

(Engineering--Chemical, TT, v. 9, no. 1)

62-34110

- I. Sumarokov, V. P.
- II. K-H-12119-b
- III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Sumarokov, V. P. and Bogoyavlenskaya, V. N.  
PREPARATION OF PYROGATECHOL FROM WOOD  
CREOSOTE BY DECOMPOSITION OF PHENOL  
ETHERS UNDER ATMOSPHERIC PRESSURE, III.  
[1961] 4p. 3 refs.

Order from OTS or SLA \$1.10

61-18345

Condensed trans. of Zhurnal Prikladnoi Khimii (USSR)  
1944, v. 17 [no. 11/12] p. 650-655.

DESCRIPTORS: \*Pyrocatechol, Preparation, \*Creosote,  
\*Phenols, \*Ethers, Decomposition, \*Hydrochloric  
acids, Chemical reactions, Temperature, Velocity,  
\*Anilines.

The dependence of the velocity of decomposition of pol-  
yhydric phenols upon the temperature, the amount of  
aniline used and the rate of flow of hydrogen chloride  
forming the aniline salt was studied. A rise of the tem-  
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18345

I. Sumarokov, V. P.  
II. Bogoyavlenskaya, V. N.

Office of Technical Services

Sumarokov, V. P., Rylkin, S. S., and  
Bogoyavlenskaya, V. N.

PREPARATION OF PYROCATECHOL BY DECOMPO-  
SITION OF PHENOL ETHERS OF WOOD CREOSOTE  
UNDER ATMOSPHERIC PRESSURE, I. [1961] 8p.  
9 refs.

Order from OTS or SLA \$1.10

61-18.69

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1943.  
v. 16, p. 219-220.

DESCRIPTORS: "Pyrocatechol, Ethers, "Wood, Creosote  
Synthesis.

Experiments of preparation of pyrocatechol from two  
samples of creosote with the aid of aniline hydrochlo-  
ride are reported, in which it was established that: (1)  
practically complete decomposition of the phenol ethers  
of creosote may be achieved by this method; (2) the re-  
action requires more time than the action of hydro-  
(Chemistry--Organic. TT, v. 6, no. 6) (over)

61-18169

I. Sumarokov, V. P.  
II. Rylkin, S. S.  
III. Bogoyavlenskaya, V. N.

Office of Technical Services

Sumarokov, V. P., Rylkin, S. S., and Kurmileva, E. E.

PREPARATION OF PYROGATECHOL BY DECOMPOSITION OF PHENOL ETHERS OF WOOD CREOSOTE UNDER ATMOSPHERIC PRESSURE, II. [1961]

5p. 13 refs.

Order from OTS or SLA \$1.10

61-18215

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1944, v. 17, p. 552-556.

DESCRIPTORS: \*Pyrocatechol, Ethers, Wood, Creosote, Synthesis.

Experiments are reported of preparation of pyrocatechol from creosote by the action of aluminum chloride under atmospheric pressure. It was found that a practically complete decomposition of the phenol ethers is possible, using approximately equimolecular amounts of ether and aluminum chloride. This reaction is much (Chemistry--Organic, TT, v. 6, no. 7) (over)

61-18215

- I. Sumarokov, V. P.
- II. Rylkin, S. S.
- III. Kurmileva, E. E.

Office of Technical Services

Distribution of Furfural Between Water and Certain  
Organic Solvents, by V. P. Sumarokov, Z. M.  
Volodutskaya, 4 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXIII, No 4,  
1960, pp 910-913.

CB

150/695

Sci

May 61

Characteristics of the Binary System Acetic Acid --  
Propionic Acid, by V. P. Sumarokov, Z. M. Volodut-  
skaya, 6 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXIX, No 5,  
May 1956, pp 738-742.

CONSULTANTS BUREAU

Sci - Chem  
Feb 57 CTS

44,242

The Distribution of  $\text{C}_1 - \text{C}_3$  Acids in the System  
Diisopropyl Ether - Water, by  $\text{V. P. Sumarokov}$ ,  
 $\text{M. M. Vologutskaya}$ , 5 pp

RUSSIAN, per, Zhur Prik Khim, Vol XXXII, No 11,  
1959, pp 2521-2525

CB

Oct 60

132,204

Characteristics of the Organic Portion of  
Industrial Sewage of Works for Dry Distillation  
of Wood, by V. P. Sumarokov, M. G. Parshanova,  
6 pp.

Full translation.

RUSSIAN, no per, Zhur Prik Khim, Vol XXVII, No 6,  
1954, pp 656-661. CIA C 39522

Consultants Bureau

Scientific - Chemistry  
Nov 55 CTS/DEX

28,325

The Production of Ductile Niobium, by O. P.  
Kolchin, N. V. Sumarokova, N. P. Chuveleva,  
10 pp.

RUSSIAN, per, Atomnaya Energiya, Vol III, No 12,  
1957, pp 515-~~523~~ 524.

Consultants Bureau

Sci - Physics

Oct 58

74, 479

Electrical Conductivity, Viscosity and Density of  
Systems  $\text{SnCl}_4$ -n- $\text{C}_6\text{H}_5\text{OH}$ - $\text{C}_6\text{H}_6$  and  $\text{SnCl}_4$ -n- $\text{C}_6\text{H}_{11}\text{OH}$ -  
 $\text{C}_6\text{H}_6$ . II, by Yu. Nevskaya, T. Sumarokova, 3 pp.

RUSSIAN, per, Zhur Obsheh Khim, Vol XXXI, No. 2,  
1961, pp 345-347.

CB

189,164

Sci

Mar 62

Cryoscopic Titration of Mixtures  
of Organic Substances, by Yu. Nevskaya,  
T. Sumarokova. 49

RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 33, No 12, 1960, pp. 2803-8.

NTC 09-11638-07C

*T. SUMAROKOVA*

Sci-Chem

July 60

386.633

The Systems  $\text{FeCl}_2$  -  $\text{FeBr}_2$  and  $\text{FeBr}_2$  -  $\text{FeI}_2$ ,  
by T. Modestva, Evgenia T. Samarkova, 8 pp.

RUSSIAN, per, Zhur Neorgan Khim, Vol XII, No 7,  
1968, 1958, pp 1655-1660.

ABC-tr-4455  
PL-480

Sci  
May 62  
PST 377

195,599

Reaction of Stannic Chloride and Bromide with  
Amino Acids, by T. Sumarokova, Ye. Yarmukhamedova,  
3 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 8, 1960,  
pp 2001-2008.

CD

168,831

Sci

Exp 61.

Cryoscopic Titration, by M. Usanovich, T. Sumarokova,  
Yu. Nevskaya, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XCVIII,  
1954, pp 617-618.

AEC UCRL-Tr-573(L)

Sci - Chem  
21 Feb 61

140,915

Oxonium Compounds of Esters With Organic Acids.  
II. The System Cetyl Acetate - Acetic Acid, by  
T. Sumarokova, K. Bilyalov, 2 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXV, No 3,  
USSR, Mar 1955, pp 477, 478. CIA C 39388

Consultants Bureau

Scientific - Chemistry  
CTS 74/Nov 55

27,967

The Expansion Curve of the Resting Ventricle  
and the Effect of Strophanthin, by R. Sulzer,  
14 pp.

GERMAN, per, Z fuer Biologie, Vol XCII, 1932,  
pp 571-578.

NIH 3-27-60

Sci - Med

May 60

117, 316

Thermoelastic Phenomena in Rubbers Based on Natural  
Latex During Cyclic Deformation, by M. P. Votinov,  
L. L. Sul'zhenko, E. V. Kuvshinskiy, 6 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XXVII, No 10, 1957  
pp 2307-2313.

Amer Inst of Phys  
Sov Phys-Tech Phys  
Vol II, No 10

Sci-Phys  
Jun 58

65,305

Preparative Method for a Lubricant, by  
N. K. Sul'zhenko, et al.  
RUSSIAN, Patent 283863  
\*FTD-HT-23-1290-67-E

66

*N. K. Sul'zhenko*

Sci/Materials  
Sep 67

AEC-tr-4482(p.114-31) Uncl.

NECESSARY AMOUNT OF Co<sup>60</sup> FOR HORIZONTAL PENE-  
TRATION GAMMA-RAY LEVEL GAUGE. S. Suma and  
T. Sumi.

C-23 P NSA

Second Japan Conference on  
Radioisotopes, Feb 1958

N-4

(FDD 21099)

Thermal and X-Ray Analysis of the System  $\text{LiF} - \text{BeF}_2$ ,  
by A. V. Noselova, Ye. I. Yarembash, Yu. P. Sumanov,  
37 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXVI, No 9,  
Moscow/Leningrad, 1952, pp 1244-1258.

CIA/FOD/U-6197

USSR

Sci - Chemistry

17,248

Jul 54 CFB