

Synthesis of p-XYLYLENE Dichloride by  
Chlorination of p-XYLENE, by N. K.  
Meshchinskaya, V. S. Kravtsev.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 38, 1965, pp 437-439.  
TC-1206

Sci-Chem  
Aug 66

309,223

Anodic Behavior of Amalgams in Chloride  
Solutions, by L. F. Kozin, E. E. Kobrand.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 38, 1965, pp 519-59.  
SLA TR-66-11036

331, 514

Sci - Chem  
Jul 67

The Chlorination of Phenol,  
by V. A. Nekrasova.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 38, 1965, pp 1407-1409  
NTC 72-60247-07A

July 72

Study of the Change in Surface Composition  
of Cu-Ni System Alloys Under the Influence  
of Corrosive Medium by Method of Work  
Function Measurement, by V. N. Lepeshinskaya,  
RUSSIAN, per, Zh. Prikl. Khim., Vol XXXVIII,  
No 7, 1965, pp 1556-1562.  
NLL 5828.4 1965 (5842)

Sci-Chem  
Apr 67

322,948

The Production of Potassium Metaphosphate  
as a Concentrated and Complex Fertilizer,  
by S. I. Vol'ikovich, et al.  
RUSSIAN, per, Zhurnal Prikl Khim, Vol 38,  
No 9, 1965, pp 1897-1903.  
NLL Ref: 5828.4F 1966 (11527)

Sci-Chem  
Sept 66

309,574

Aspects of the Production of Nitric Acid  
in High Concentration, by I. M. Kazanskiy.  
RUSSIAN, per, Zhurnal Prikl. Khim. No 9, 1965,  
pp 1949-1953.  
NLL Ref: 5828.4F 1966 (11626)

Sci-Chem  
Sept 66

309,567

Selection of the Conditions of Chromatographic Analysis of Gas Mixtures Containing  $\text{CO}_2$ ,  $\text{C}_2\text{H}_6$ ,  $\text{O}_2$ ,  $\text{H}_2$ ,  $\text{N}_2$ ,  $\text{CO}$ ,  $\text{Cl}_4$ , and  $\text{C}_2\text{H}_6$ ,  
by N. S. Torocheshnikov.  
RUSSIAN, per, Zh. Prikl. Khim., Vol 38,  
No 9, 1965, pp 2017-2026.  
NASA TT F-9875

Sci-Chem  
Apr 66

298,803

The Cation-Exchange Method for Recovery of  
Ammonia From Spent Sulfite Liquor, by L. Ioffe,  
7 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Khimii, Vol 39,  
No 7, Jul 1966, pp. 1458-1462.  
JPRS 39538

USSR  
Sci-Chem  
Mar 67

319,360

Study of Equilibrium Carbonate-Bicarbonate  
Electrolyte in the Presence of Potassium  
Formate, by L. A. Matusevich and V. S.  
Bagotskiy, 6 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Khimii, No.  
7, 1966, pp. 1463-1467.  
JPRS 38687

USSR  
Sci-Chem  
Dec 66

314,401

The Separation of Sulfuric Acid From  
Anthraquinone Sulfonation Product With Ion-  
Exchange Resin, by Yu. A. Kolesnik and V. V.  
Kozlov, 5 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Khimii, Vol 39,  
No 7, Jul 1966, pp. 1657-1659.  
JPRS 39538

USSR  
Sci-Chem  
Mar 67

319,361

Influence of the Number of Crosslinks and Certain  
Other Factors on the Thermal Stability of  
Sulfonationite KU-2 in Tertiary Amylenes, by  
P. Ye. Tulupov, 5 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Khimii,  
Vol 39, No 7, Jul 1966, pp. 1661-1663.  
JPRS 39538

USSR  
Sci-Chem  
Mar 67

319,362

Increase of Cohesive Strength of Metallic  
Coatings by Means of a Preliminary Passivation,  
by L. I. Kadaner, et al.  
RUSSIAN, per, Zh. Prikl. Khim, Vol XXXIX,  
No 9, 1966, pp 1956-1959.  
NASA TT F-10,666

Sci-Chem  
Mar 67

320,314

The Effect of Micro -Additives on the Process  
of Chemical Nickel-Plating, by R. G. Rosenbloom,  
A. A. Dyakov.

RUSSIAN, per, Zhur Prikl. Khim, Vol 39, Sep  
1966, pp 1987-1994.

UKEA (Loan)

CA Tr 144

324,310

Sci  
Apr 67

Sinterplate Nickel-Oxide Electrode With Plastics  
Binder, by L. N. Sagayan.  
RUSSIAN, per, Zh. Prikl. Khim., Vol 39, No 9,  
1966, pp 2131-2133.  
NII 9022.4 (66/340)

Sci-Elec Engr  
Nov 67

45.374

The Mechanism of the Formation of Anodic  
Oxide Films on Aluminum, by A. V. Shreider.  
RUSSIAN, per, Zh Prikl Khim, Vol 39, No 12,  
1966, pp 2697-2705.  
NTC-69-16400-11F

Sci-Materials  
Feb 70

402,937

The Hydrocarboxylation of Olefins of Various  
Structures, by N. M. Bogoradovskaya.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 39,  
1966, pp 2807-2811.  
NTC-71-16121-07C

Jan 72

Catalysis for the Hydrocarboxylation of Diolofina,  
by N. S. Imyanitov.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 39,  
1966, pp 2811-2814.  
NTC-71-16123-07C

Jan 72

Specific Weights and Viscosities of  
Water Solutions of  $\text{Am}_2\text{SO}_3$  and  $\text{Am}_2\text{SO}_4$ ,  
by B. A. Cherthov, T. I. Pekareva.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 34, No 1, 1967, pp. 259-66.  
NTC 69-11674-07B

Sci-Chem  
July 69

386,619

Preparation of Silicon Organic Derivatives of  
Cellulose and their Use as Filters for the Separation  
of Emulsions, by I. M. Seragina,  
Murmansk, per. Zh. Prikl. Khim., Vol 41, 1968.  
NLL Ref: 5828.47 (N 7798)

Sci/Mat  
Apr 70

406,745

Synthesis of Vinyl Esters, by K.A. Galutkina,  
N.Ya Salivon.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 41,  
No 2, 1968, pp 381-384.  
NTC 69-11229-07A

Sci/Chem  
July 69

387-301

Sorption of Oxygen During Anodic Treatment  
of Steel, by S. Ya. Grilikhes, N. G. Gav-  
rilyuk.  
RUSSIAN, per, Zhurnal Prikl Khim, Vol 41,  
No 6, 1968, pp 1233-1236.  
PTD-S-439

Mar 69

378,064

VAIMAN, E. Ya. and others. Photodegradation of PVC  
fibres.  
Zh. prikl. Khim. 41(21):362-5 (1968) (GB 21/1439)

LY Comm 1439

CIA X - 7060

386,932

Investigation of Conditions of Electro-  
Deposition of Copper-Nickel-Manganese  
Alloy, by G. A. Selivanova.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 43, 1970, pp 1468-1474  
NTC 72-12005-11F

June 72

N. P. Fedotov

Current Status and Prospects for the Development  
of Electrolytic Deposition of Alloys.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 44,  
1971. pp 515-519  
NTC 72-13103-11F

sept 72

Electrochemical Properties of Copper-  
Ruthenium Alloys, by V. G. Sorokin.  
RUSSIAN, per, Zhurnal Prikladnoi Khimii,  
Vol 44, 1971, pp 1175-1177  
NTC 72-12479-11F

July 72

V. G. Sorokin

Electrical Properties of Nickel-Ruthenium  
Alloys.

RUSSIAN, per, Zhurnal Prikladnoi Khimii, Vol 44,  
1971, pp 1256-1262  
AMC 72-13479-07D

Oct 72

N. P. Fedotov

Investigation of Connection Between Tensile Strength  
and Microhardness of Electrolytic Nickel Deposits.  
ZHURNAL PRIKLADNOI KHIMII, Vol 44, 1971, pp 1898-1900.  
NTC-72-14619-11F

Feb 1973

Zhurnal Prikladnoy Khimiy, Vol 45, No 7, Pt 1, July  
1972, pp 1409-1507.

Full tr by Consultants Bureau, pp 1473-1569.

Available Ly Serials

Jan 73

Radiation Spectrum of a Detonating Wave  
in Nitromethane (NM), by A. M. Dronin, 5 pp.  
RUSSIAN, per, PIHTF, No 1, 1965, pp 103-105.  
9699679  
Dept of Navy/ONI Tr No 2004

Sci - Elec  
Feb 66

296,483

Characteristics of Plasmatron With Interelectrode Gas  
Injector, by G. Yu. Daumov, Yu. S. Dudnikov, 9 pp.  
RUSSIAN, per, PMTF, No 1, 1967, pp 172-176.  
ARM/FSTC/HT-23-824-71

June 72

Decay of Plane Shock Waves in Aluminum Created by  
Impact, by I.V. Belinskiy.  
RUSSIAN, per, Zhurnal Prikladnoy Matematki i  
Tekhnicheskoy Fiziki, No 3, 1967, 86-89.  
FTD-INT Special 584-69

Calculation of Temperature Field in Plasmatron  
Electrodes, by B. A. Uryukov, 15 pp.  
RUSSIAN, per, PMTE, No 5, 1967, pp 84-91.  
ARM/FSTC/HT-23-825-71

June 72

Viscosity of NaCl at Shock Compression, by I.V.  
Bolinskiy.

RUSSIAN, per, Zhurnal Prikladnoy Matematiki i  
Tekhnicheskoy Fiziki, No 1, 1968, 150-151.

FTD-HT Special 586-69

On Nonequilibrium Radiation by a Strong  
Shockwave, by A. D. Nadezhin.  
RUSSIAN, per. Prik Matem i Tekh Fiz, No 1,  
1969, pp 27-32.  
CIA X-7076

Aug 69

389,417

ZHURNAL PRIKLADNOI MEKHANIKI I  
TEKHNICHESKOI FIZIKI - bimonthly  
(Journal of Applied Mechanics  
and Technical Physics)  
Translation begins with 1965,  
Vol. 6, No. 1  
Order from: The Faraday Press, Inc.  
84 Fifth Avenue  
New York, N.Y. 10011  
1971: \$ 150.00/year USA and Canada  
\$ 155.00/year elsewhere  
\$ 35.00 single issues  
Price of back volumes: \$ 150.00/year

*Russ*

ZHURNAL PRIKLADNOI MEKHANIKI I TEKHNICHESKOI  
FIZIKI 1965 - No 2, March-April 1967

COVER - COVER FARADAY PRESS

NO 4 - 5 1967

COVER - COVER: CONSULTANTS BUREAU

AVAILABLE LY SERIALS

Kinetics of Electron Recombination in a Molecular  
Gas Expanding into a Vacuum, by N. M. Kuznetsov.  
RUSSIAN, per, Prikl. Mekh. i Tekh. Fiz., No 5,  
1966, pp 42-49.  
CIA X-6263

Sci/Physics

Jun 67

FOR OFFICIAL USE ONLY

327,620

Stress Distribution at the Vertex of a  
Growing Crack, by L. B. Zuyev, et al.  
RUSSIAN, poT, Zh Prikl Mekh Tekh Fiz,  
May-June 1966, pp 107-111.  
NASA TT F-10,668

Sci-Phys  
Mar 67

320,8166

Calculation of Turbulent Heat Exchange  
on a Nonpermeated Surface When a  
Foreign Gas is Blown In, by  
S. S. Matateladze, A. I. Leont'yev,  
5 pp.  
RUSSIAN, por, Zhurnal Prikladnoy  
Mekhaniki i Tekhnicheskoy Fiziki,  
No 5, 1966, pp 123-125.  
P100229368-7  
PDB-MI-23-928-67

Sci/Physics

364, 328

Experimental Investigation of the  
Dispersion of Instantaneously Heated  
Material and of the Originating Impulse at  
Energy Concentrations Less Than the Heat,  
of Evaporation, by A. A. Kalmykov,  
I. V. Nemchinov, 13 pp.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz,  
No 6, 1966, pp 3-15.  
CIA/FDD X-6138

Sci - Phys

Mar 67

FOR OFFICIAL USE ONLY

320,557

Action of Laser Beam on Plexiglas, by A. I. Akimov,  
L. I. Mirkin, 7 pp.  
RUSSIAN, per. Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 6, 1966, pp 14-18.  
P100173768-V  
FTD-MT-24-214-67

*CIA/ITD 8-6144 7000*

Sci/Phys  
Aug 68

364,803

Interrelation and Peculiarities of Processes  
of Stress Relaxation, Creep and Uniaxial  
Elongation, by G. S. Vorochnikov and B. M.  
Ravinskiy, 14 pp.  
RUSSIAN, per, Zh. Prikl. Mekh. Tekh. Fiz., No 6,  
1966, pp 19-26. F911355467  
AND WAFD-Trans-71

Sci-Physics  
Nov 67

344,256

On the Vibrations of a Body Filled With  
a Viscous Fluid, by O. B. Yevleva, 9 pp.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz.  
No 6, 1966, pp 27-34.  
CIA/FDD X-6143

Sci - Biol & Med Sci  
Mar 67  
FOR OFFICIAL USE ONLY

320,550

A Note Concerning the Determination of Specific  
Heat Fluxes Toward the Surface in the Air Jet of a  
High-Frequency Electrodeless Plasmotron, by  
S. V. Kononov.  
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i  
Tekhnicheskoi Fiziki, No 6, 1966, pp 67-68.  
NTC-71-10131-201

Nov 71

Explosion Initiation of Liquid Explosives by  
Cavitation, by V.Ye. Gordoyov, A.I. Serbinov,  
and Ya.K. Troshin.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 1, 1967, pp45-53.

~~FTD-300~~

S A7 D Special 233 68

Feb 69

374,271

Journal of Applied Mechanics and Technical  
Physics - Nonstationary Burning of Propellants  
Having Variable Surface Temperatures, by  
B. V. Novozhilov. 21 pp.  
RUSSIAN, Per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 1, 1967, pp 54-63.  
NTI/FND/II-24-376-68

sci/propulsion and fuels  
apr 69

380,068

Two Modes of Operation of a Combustion  
Chamber Model as a Self-Oscillating Thermo-  
acoustic System, by V. Ye. Doroshenko.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhanika i  
Tekhnicheskoy Fiziki, No 1, 1967, Jan-Feb,  
pp 64-70.  
NASA TT F-11,268

Sci-Prop & Fbels  
Jan 68

348,661

The Influence of Channel Blockage on the Flow of  
a Fluid in the Separation Zone Behind a Badly-  
Streamlined Body, by M. A. Gol'dshtikh, B. A.  
Silant'ev.  
RUSSIAN, par. Zh Fizik Mekh i Tekh Fiz. No 1, 1967.  
pp 97-99.  
NII Ref: 5828.4F (12279)

Sol-Prop and Fuels  
Aug 68

362,025

Investigation of the Cylindrical Waves  
in Rarefied Plasma, by Yu. A. Berezin,  
R. Kh. Kurtmullayev.  
RUSSIAN, per, Zhurnal Prikl Mekh i Tekh  
Fiz, No 1, 1967, pp 116-124.  
AIR/FTD/MT-24-76-68 AD 679 537

Sci-Phys  
Feb 69

373,018

Approximate Solution of Problem on Stationary  
Induced High-Frequency Discharge in Closed  
Volume, by V. A. Grushev, R. Ye. Rovinskiy.  
12 pp.

RUSSIAN, per. Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 1, pp 143-150.

FI00245068-V

FTD-MT-24-332-67

Sci-Phys  
Oct 68

367.510



Distribution of Electric Field Strenght  
Over the Length of a Longitudinally  
Ventilated Arc in A d-c Plasmatron, by  
A. S. Vasil'kovskaya, I. I. Kolonina.  
RUSSIAN, per, Zhurnal Prikl Mekh i Tekh  
Fiz, Jan-Feb 1967, pp 166-171.  
AIR/FTD/MT-24-113-68 AD 679 790

Sci-Phys  
Feb 69

373,020

Characteristics of a Plasmatron with Intorelectrode  
Insert. by, Gayn. Dautov, Yu. S. Dubinkov, M. F. Zhukov,  
G. M. Mustafin, M. I. Sazonov.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 1, 1967, pp172-176

FFB-6-307

77 D Special 3.21-68

Feb 69

574,278

Plasma Stability in Combined Magnetic Field,  
by Ye. Ye. Kogan, S. S. Moiseyev, and V. N.

Orayevskiy.

RUSSIAN, per, Zhurnal RK Prikladnoy Mekhaniki i  
Tekhnicheskoy, No 3, 1967, pp 12-15.

FTD-S-217

*FTD Special 266 68*

Jan 69

373,542

Dynamic Features of a Spherical Gas  
Bubble in Fluid, by V. K. Kedrinskiy.  
RUSSIAN, per, Zhurnal Prikladnoy  
Mekhaniki i Tekhnicheskoy Fiziki,  
No 3, 1967, pp 120-125.  
NASA TT F-11,653

Sci/Phys  
Oct 68

369,045

The Influence of a Hydrodynamic Field on the  
Stability of a Laminar Flame, by G. I. Sivashinskiy.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 6, 1967, pp 14-19.  
R10-8-223

*7TD Special 276-68*

Jan 69

373,548

On the Theory of Cracks of Quasi-Brittle  
Fracture, by D. D. Ivlev. 80 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 6, 1967, pp 88-128.  
FTD 8-760

252-69 FTD Special

july 69

387,504

Turbulent Boundary Layer of a Dissociated Gas at the Inlet Section of a Tube, by A. I. Leont'yev, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki,  
No 8, 1967, pp 100-105.  
NASA TP R-11,254

Sci/Phys  
Oct 68

369,071

Ambiguity and Stability of Detonation in a  
Bounded Medium, by N. M. Kuznetsov.  
RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz,  
No 1, 1968, pp 45-55.  
NASA TT F-12,261

Sci-Phys  
July 69

388,587

Certain Peculiarities of Thermal Destruction  
of Decomposing Materials, by Yu. A. Buye-  
vich.

RUSSIAN, per, Zhurnal Prikladnoy Mekhanika  
i Tekh Fiz, No 1, 1968, pp 56-65, 152-158.

~~FTD-S-481~~

*477 Special 103-69*

Apr 69

379,515

Problems on the Determination of the Elastic  
State of Microheterogeneous Media, by  
V. V. Bolotin, V. N. Moskalenko.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki  
i Tekhnicheskoy Fiziki, No 1, 1968, pp 66-72.  
~~FTD-S-496~~

*FTD Special 55-69*

Apr 69

379,933

Calculation of a Model of Porous Body at  
High Temperatures, by S. P. Detkov.  
RUSSIAN, per, Zhurnal Prikl Mekh i Tekh  
Fiz, No 1, 1968, pp 105-121.  
NASA TT F-11,990

Sci-Phys  
Mar 69

378,601

On the Formation of Shock Waves During  
Electrical Discharges in Water, by  
A. I. Ioffe.  
RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz.  
No 1, 1968, pp 134-137.  
~~FTD-S-393~~

*FTD Special 56-69*

MAR 69

376,309

Ionization Relaxations Behind a Shock  
Wave Front in Argon Containing an Ad-  
mixture of Air, by G. I. Kozlov,  
Yu. P. Rayzer.

RUSSIAN, per, Zhurnal Prikl Mekh i  
Tekh Fiz, No 1, 1968, pp 140-145.

PTD-S-409

*FTD Special 57-69*

Mar 69

376,354

The Heat Theory of Ignition, by A. M.  
Grishin.  
RUSSIAN, per, Zhurnal Prikladnaya Mekh i  
Tekh Fiz, No 1, 1968, pp 156-160.  
FTD-S-275

*FTD Special 232-68*

Jan 69

374,184

On the Calculation of the Parameters of an  
Electron Beam Drifting Across a Strong Magnetic  
Field, by V. N. Danilov.

RUSSIAN, per, Zhurnal Prikladnoy Mekhanika i  
Tekhnicheskoy Fiziki, No 2, 1968, pp 3-16.

FTD HT-Spec ial 538-69

nov 69

395,407

Analysis of a Cylindrical Electrical Arc Taking  
Account of Radiant Energy Transfer Arc in Hydrogen  
at 400 atm Pressure, by A. T. Unufreyev.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz, No 2, 1968,  
pp 17-22.  
CIA X-6739

Sept 68

367,073

On the Model of Steady Motions of Suspensions,  
by Y. A. Buyevich, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 2, 1968, pp23-35  
FTD HT Special 72-70

apr 70

404,4 546

On The Ignition of Solid Fuels, by, V.B. Librovich  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 2, 1968, pp 36-43  
~~FTD-6-297~~

*ITD Special 323-68*

Feb 69

374,268

Thermoelastic Constant of Polycrystals, by  
V. V. Bolotin. 6 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki  
i Tekhnicheskoy Fiziki, No 2, 1968, pp 44-47.  
~~PTD-S-639~~

*PTD #1 Special 287-69*

june 69

384,146

Registration of Arc Discharges on the Cathode of  
an mhd-Device Model, by Yu. V. Baryshev, V. O. German,  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 2, 1968, pp 54-55.  
FTD HT-Special 339-69

sept 69

393,070

Characteristics of a Plasmatron With Porous Anode  
Cooling, by V. N. Yarygin, 7 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki,  
Tekhnicheskoy Fiziki, No 2, 1968, pp 72-76.  
ARM/FSTC/HT-23-826-71

Sent 71

Nonstationary Radiant Heating of a Body of  
Cylindrical Shape, by A. L. Burka.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz, No 2, 1968,  
pp 76-80.  
CIA K-6704

August 68

357,519

Investigation of the Flow Around a Sphere in Free  
Flight, by A. P. Bodin, I. M. Dement'yev.  
RUSSIAN, por, Prikl Mekh i Tekh Fiz, No 2, 1968,  
pp 95-98.  
CIA X-6698

*FTD - D.S. 24- 71- 1646*

August 68

357,513

Regular Reflection of Plane Detonation  
Waves from Elastic Half-Space, by  
V. V. Skripachev.  
RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz,  
No 2, 1968, pp 115-117.  
FTD-S-352

*47 D. Special 60-69*

Feb 69

375,397

Measurement of the Velocity of Sound and Calculation of  
Entropy in Freon-11, by Ya. L. Kolotov.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnich-  
eskoy Fiziki, Vol 2, 1968, pp 141-145.

\*NTIS TT 72-53020

Mar 72

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14-11-8

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EXPERIMENTAL INVESTIGATION OF CLAYEY SOIL  
COMPRESSIBILITY IN UNDERGROUND EXPLOSIONS  
RYKOV, G.V.

UR: ZHURNAL PRIKLADNOY MEKHANIKI I TEKH-  
NICHESKOY FIZIKI, 1968, NO 2, pp. 149-151

NEED ABSTRACT

*Process in as**H572-23-1804 negative  
20 Nov 72*

High Density Discharge of High Pressure in a  
Stream of Gas as a Process of Slow Combustion,  
by Yu. P. Rayzer.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 3-10.  
FTD HT Special 3-70

sc feb 70

402,665

On Equilibrium and Stability of a High Current  
Discharge in Dense Plasma in Conditions of  
Radiant Heat conductivity, by A.A. Rukhadze,  
S.A. Triger. 14 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 11-18.

S-256-69

S-~~588~~ 593

47 *Dejavnost* 256-69

may 69

382.920

Effect of Boundary Conductivity in Well Magnetized  
Plasma, by A. I. Morozov. 6 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy, No 3, 1968, pp 19-22.

~~FTD S-696~~

404-69 FTD Special

july 69

384,267

On a theory of Previous Turbulence of Dispersed  
Systems, by Y. A. Buyevich, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 23-26.  
FFD-MP-Special 73-70

Apr 70

405,894

On Buckling Modes of an Elastic Rod Under Impact,  
by V. M. Kornev.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz, No 3, 1968,  
pp 63-66.  
CIA X-6788

Nov 68

353,541

Electrical Phenomena During the Irra-  
diation of a Cable with a Stream of  
Neutrons and  $\gamma$ -Quanta, by R. M. Zaydel.  
RUSSIAN, per, Zhurnal Prikl Mekh i Tekh  
Fiz, No 3, 1968, pp 66-76.  
FTD-S-572

FTD H. H. Special 238-69  
238-64  
MT

May 69

382,364

Simultaneous Combustion of High-Current and High-Frequency Arcs in a Plasmatron, by V. A. Bogatyrova, N. I. Vorob'yeva, 6 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 3, 1968, pp 86-89.

ARM/FSTC/HT-23-823-71

June 72

Calculation of the State of Argon Behind an  
Incident Shock Wave Between Mach Numbers 20-50  
with Allowance for Excitation, Multiple Ioni-  
zation, and Coulomb Interaction, by  
G. N. Kozlov, 8 pp.

RUSSIAN, per, Zh Prikl Mekhan i Tekhn Fiz,  
No 3, 1968, pp 94-97.

NASA TT F-13,082

Sci-Phys  
Sep 70

Specifics of Interaction of Quasistable Laser Radiation  
With Metals, by B. M. Zhiryakov, A. K. Fannibo, 5 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 126-128.

ARM/FSTC/HT-23-1186-71

Dec 71

Permanent Non-Steady-State Model of the Combustion  
Zone of Composite Condensed Systems, by S.S. Novikov.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 128-133.  
FTD-INT Special 486-69

Heat Exchange at Natural Turbulent Convection on  
Vertical Porous Surfaces, by P. M. Brdlik, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 3, 1968, pp 143-147.  
~~FTD S-809~~

480-69 *FTD Special*

aug 69

389,720

Autocatalytic Solutions of Equations of a Spatial  
Laminar Magnetohydrodynamic Boundary Layer, by  
G. V. Filippov, et al. 10 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 10-17.

FTD S-608

77 Special HT-260-69

june 69

383,007