

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-71-10131-20I

Nov 71

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

RUSSIAN, per, Zhurnal Pridnay Tekhniki i  
Tekhnicheskoy Fiziki, No 1, 1967, pp 45-53.

FTD - 600

1/1 D [unclear] 223 (c)

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.  
Russia, per, Zhurnal Prikladnoy Tekhniki i  
Tekhnicheskoy Fiziki, No 1, 1967, pp 54-63.  
AL/FID/FT-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 & Fibels  
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 A. A. Gol'dshtikh, B. A.  
Silant'ev.  
RUSSIAN, per, Zh Tekh Nauk i Tekh Fiz., No 1, 1967,  
pp 97-99.  
SLL Ref: 5828.4F (12279)

Sci-Trop and Fuels 362.025  
Aug 68

Investigation of the Cylindrical Waves  
in Rarefied Plasma, by Yu. A. Berezin,  
R. Kh. Kurtmullayev.  
RUSSIAN, per, Zhurnal Prikl Mekh i Tekhn  
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. Rovinskij.

12 pp.

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

F100245068-V

FTD-MT-24-332-67

Sci-Phys  
Oct 68

367,510

Criterion of an Approximate Similarity of an Arc  
With a Self-Adjusting Length, Burning in a  
Plasmatron With Eddy Gas Stabilization, by  
V. Ya. Smolyakov. 13 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki  
Tekhnicheskoy Fiziki, No 1, 1967, pp 151-157.

FTD-S-691

399-69  $\int_{t_0}^t \sqrt{f_{\alpha}(x(t))} dt = C^{(1)}$

july 69

384,262

Agency: Air Force, Aerospace Research Lab  
P.O. #: AR 8-0802 68-57d

R-10043-D  
15 Jan 1969

Title: Investigation of fluctuation s in a  
plasmotron with self-adjusting arc.

Author: Pastov, G. IU.

Source: Zh. Prik Mekh i Tekh Fiz. 1967 #1  
pp. 161- 166 (6 p)

Language: Russian

Special Instructions: Please translate & type  
one copy.

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

Sci-Phys 373,020  
Feb 69

Characteristics of a Plasmatron with Interelectrode  
Inserts by, Gyu. Bautov, Yu. S. Dubinkov, ... F. Volkov,  
G. N. Kostafin, N. I. Sazonov.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 1, 1967, p172-176

FID-S-307

H.D. Jp, ccc. 4/27 63

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

Jan 69

373,542

Agency: Air Force, Aerospace Research Lab  
P.D. #: AR 0-0002 69-~~4~~ 7A R-10.040-8 Mg  
15 Jan 69

Title: Features of the vertical stabilization  
of an electrically conductive gas in  
a radial electric field.

Author: Dautov, G. IJ.

Source. Zh. Prik Mekh i Tekh Fiz, 1967 #3, 107-  
111 (5 p)

Language: Russian

Special Instructions: Please translate & type  
one copy.

Dynamic Features of a Spherical Gas  
Bubble in Fluid, by V. K. Kedrinskiy.  
RUSSIAN, per, Zhurnal Prikladnoy  
Mekhaniki i Technicheskoy Fiziki,  
No 3, 1967, pp 120-125.  
NASA TT N-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  
Tekhnicheskiy Fiziki, No 6, 1967, pp 14-19.

FBI-DO-223

77 Influence of a hydrodynamic field on the stability of a laminar flame, by G. I. Sivashinskiy

Jan 69

573,548

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.  
FDI 9-760

252-69 T D [unclear]

july 69

387,504

Urgent Boundary Survey of the unso-  
cited area of the Lett Section of the  
tribe, by A. I. Leont'ev, et al.  
KGB, per, Journal of the Soviet  
Geographical Commission, No. 11,  
No. 8, 1967, pp. 100-105.  
100-11, 254.

See 1, 118  
See 30

Ambiguity and Stability of Detonation in a  
Bounded Medium, by N. M. Kuznetsov.  
RUSSIAN, por, Zh Prik 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, 152-156.  
~~FTD-S-483~~

470-Sub C-3-67

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.  
FTP-S-490

770-Sub C-5-69

Apr 69

379,933

Calculation of a Model of Porous Body at  
High Temperatures, by S. P. Detkov.  
RUSSIAN, por., Zhurnal Prikl Mekh i Tekhn 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 Reference S 600 G 1

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

111-20000-50-67

Mar 69

376 , 354

The Heat Theory of Ignition, by A. M.

Grishin.

RUSSIAN, per, Zhurnal Prikladnaya Mekhaniki  
Tekhnika Fizika, No 1, 1968, pp 156-160.

FTD-S-275

Jan 69

374,184

[REDACTED]

On the Calculation of the Parameters of an  
Electron Beam Drifting Across a Strong Magnetic  
Field, by V. N. Danilov.  
RUSSIAN, per, Zhurnal Priklandoy Mekhanika i  
Tekhnicheskoy Fiziki, No 2, 1968, pp 3-16.  
FTD HF-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. Onuroyev.  
Article, per, Prakticheskaya Fizika, No 2, 1968,  
p. 17-22.  
CIA X-6739

Sept 68

367,073

On one 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

FTP INT Special 72-70

apr 70

404,4 546

On The Ignition of Solid Fuels, by V.B. Librovich  
RUSSIAN, per Zhurnal Pridnay Mekhaniki I  
Tekhnicheskoy Fiziki, No 2, 1968, pp 36-43  
PPB-S-297

Feb 69

374,263

[REDACTED]

Thermoelectric Constant of Polycrystals, by  
V. V. Bolotin. 6 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Fizikaniki  
i Tekhnicheskoy Fiziki, No 2, 1968, pp 44-47.  
FD-3639

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, 1963, pp 72-76.  
ARM/FSTC/HF-23-326-71

Sept 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 X-6704

August 68

357,519

Investigation of the Flow Around a Sphere in Free Flight, by A. P. Bedin, I. V. Dement'yev.  
RUSSIAN, per, Prikl Mekh i Tekhn Fiz, no 2, 1968,  
pp 95-98.  
CIA X-6698

FTD Doc 24-1b C-22

August 68

557,513

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

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 Tekhnicheskoy Fiziki, Vol 2, 1968, pp 141-145.  
\*NTIS TT 72-53020

Mar 72

REQ TR CHECK

14-11-8

THI9

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 - 180<sup>4</sup> 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 RT Special 3-70

sc feb 70

402,665

On Equilibrium and Stability of a High Current  
Discharge in Dense Plasma in Condition 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-256-69~~ 3

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

May 69

382.920

Effect of Boundary Conductivity in Well Magnetized  
Plasma, by A. I. Morozov. 6 pp.  
RUSSIAN, per, Zhurnal Tekhnicheskoy Mekhaniki i  
tekhnicheskoy, No 3, 1968, pp 19-22.  
NPD-S-696

404-69 FTD Agency

july 69

384,267

On a Theory of Previous Turbulence of Dispersed Systems, by Y. A. Buyevich, et al.  
RUSSIAN, per, Zhurnal Priklandoy Mekhaniki i Tekhnicheskoy Fiziki, No 3, 1965, pp 73-76.  
FDD-ITP-Special 73-76

Apr 70

4Q5, 304

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

355,541

Nov 68

Electrical Phenomena During the Irradiation of a Cable with a Stream of Neutrons and  $\gamma$ -Quanta, by R. M. Zaydel.  
RUSSIAN, per, Zhurnal Prik Nekh i Tekh Fiz, No 3, 1968, pp 66-76.

FTD-S-572

FTD M 144-638-38-572  
233 67  
MPT

May 69

382,364

[REDACTED]

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 36-89.  
ARM/FSTC/HT-23-823-71

June 72

[REDACTED]

Calculation of the State of Argon Behind an  
Incident Shock Wave Between Mach Numbers 20-50  
with Allowance for Excitation, Multiple Ionization,  
and Coulomb Interaction, by

G. N. Kozlov, 3 pp.

RUSSIAN, per, Zh Prik Mekhan i Tekhn Fiz,  
No 3, 1966, pp 94-97.  
NASA TT F-13,062

Sci-Phys  
Sep 70

[REDACTED]

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

[REDACTED]

[REDACTED]

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-HT Special 486-69

[REDACTED]

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.  
FD S-809

480-69 *J.D. Johnson*

aug 69

389,720

[REDACTED]

Autamodel 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

[REDACTED]

june 69

383,007

[REDACTED]

[REDACTED]

Organization and Solution of Several Variational  
Problem of Thermoelasticity of Thin Shells as  
Applied to the Selection of the Optimal Regimes  
of Localized Heat Treatment, by Ye. I. Grigolyk,  
et al.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 47-54.  
PTD ITP Special 63-70

apr 70

404,544

[REDACTED]

On the Damping of Plane, Explosively-Caused, Shocks  
in a Solid, by V. N. Kondrat'yev, I. V. Nemchinov.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz, No 4, 1968,  
pp 61-65.

CIA X-6802

172420Z Nov 68

Nov 68

354,075

REQ TR CHECK

6-1-29

TAE4

SOME EXP. DATA ON THE PARAMETERS OF STRESS  
WAVES OCCURRING IN SOILS AS A RESULT OF  
SURF EXPLOSIVE

ALEKSEYENKO V D

UR: ZHURANL PRIKLADNOY MEKHANIKI I  
TEKHNICHESKOY FIZIKI, 1968, nr 4,  
pp 65-67

*c/o J. A. P. Please Pres*

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*9 FEB  
1972*

REF ID: A144145  
REV TR CHECK

14-1-5

THIS

DETERMINING THE VISCOSITY PROPERTIES OF A OIL  
LYAKHOV, G.M.  
UR: ZHURNAL PRIKLADNOY MEKHANIKI I  
TEKHNICHESKOGO FIZIKI, 1968, No. 4,  
pp. 58-71

*Process in as*  
*H572-22-1802*

The Theory of Heat Interaction of the Combustion  
Zone of Powder With Powder-Metal Contact, by  
S.S. Novikov, Yu. S. Ryazantsev.  
RUSSIAN,per, Zhurnal prikladnoi Mekhaniki I  
Tekhnicheskoy Fiziki, No 4, 1968, pp 79-83.  
FD>S>292

Feb 69

574,263

Acoustic Vibrations in a Cavity Having Sources  
and Sinks, by Yu. I. Babenko, O. M. Todes.  
RUSSIAN, per, Zh Prik Matn i Tekh Fiz, No 4,  
1968, pp 87-92.  
NTC-69-12895-20A

Sci-Phys  
Sept 69

391,263

Laminar Boundary Layer on a Flat Plate in an  
Oscillating Flow, by I. V. Pushkareva. 14 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 93-99.  
FTD S-812

346-69 TTD Ap. 1969

aug 69

389,755

Determination of Entrance Length During  
Turbulent Gas Flow in an Annular Tube  
for Substantial Nonisothermicity, by  
A. I. Leont'yev.

RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz,  
Jul-Aug 1968, pp 99-104.  
NASA TT F-12,133

Sci-Phys  
May 69

382,659

Investigation of Turbulence by Optical  
Methods, by N. F. Derevyanko.  
RUSSIAN, per, Prikl Mekh i Tekh Fiz, № 4,  
1968, pp 105-116.  
CIA X-6903

Feb 69

375,367

Visualization of Supersonic Flow With the Aid of  
a Pre-Penetrating Discharge, by V. I. Alferov,  
et al., 5 pp.

RUSSIAN, ~~part~~, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 117-119.  
FTD S-609

june 69

383,008

[REDACTED]

Automodel Solutions of Equations of Magnetic  
Hydrodynamics With Finite Gas Conductivity, by  
A. N. Cherepanov. 8 pp.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 130-135.  
ITD S-610

june 69

383,009

Experimental Investigation of Shock Wave  
Reflection from a Current Grid, by V. A. Derevyanko  
et al. 11 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskii Fiziki, No 4, 1968, pp 136-141.  
FTD S-810

481-69 / T.D. [unclear]

aug 69

389,721

Calculation of a Tubular Electron Beam in an  
Axirosymmetric Magnetic Mirror, by V. N. Danilov.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 4, 1968, pp 141-148.  
FD-17 Special 539-69

Oct 69

395,391

Computation of Characteristics of the  
Stratum and the Fluid Saturating the Stratum  
in Filtration Processes in Deformable  
Collectors, by R. G. Isayev.  
RUSSIAN, per, Zh Prik Mekh i Tekh Fiz,  
No 5, 1968.  
International Chemical Engineering  
Vol 9, No 2, Apr 1969  
Available from Am Inst of Chem Engrs

June 69

383,481

The Non-linear Theory of Damping of Electro-  
magnetic Waves in a Plasma, by N. S. Yerkhin,  
10 pp.  
RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5,  
1968, pp 11-17.  
NASA TT F-12,372

Sci-Phys  
Nov 69

395,810

A Linear Exchange of Channel Flow of a Conducting Gas with a Large Magnetic Reynolds Number, by

A. G. Korzun.

RUSSIAN, par, Zh Prik Mekh i Tekh Fiz, No 5,  
1968, pp 26-31.

NASA TT F-12, 374

111-10000-10000-10000

Sci-Phys  
Oct 69

393,397

Self-Similar Motions of a Gas Heated by Non-equilibrium Radiation of Complex Spectrum,  
by V. M. Krol, I. V. Nemchinov.  
RUSSIAN, per, Zh Prik Nauk i Tekh Fiz, No 5,  
1968, pp 32-37.  
EYC-69-12814-201

Sci-Phys  
Sept 69

391,266

Relaxation of Self-Oscillation During the  
Combustion of Gunpowder in a Semiclosed  
Volume, by G. N. Gusenkov.  
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki  
i Tekhnicheskoi Fiziki, Sept-Oct 1968,  
pp. 44-46.  
CIA X-7086

Sept 69

391,324

A Method of Calculating Explosive Chambers, by A. F. Demchuk.  
RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz,  
No 5, 1968, pp 47-50.  
FTD-S-356

Feb 69

375,401

The Method of Effective Energy in the Problem  
of a Strong Explosion in a Real Gas, by  
V. V. Ilanov. 6 pp.  
RUSSIAN, per, Zh Prik Mekh i Fiz, No 5, 1968,  
pp 50-52.  
NASA TT F-12, 375

Sci-Phys  
Nov 69

395,792

Several Questions of Polarized Dielectrics in  
Shock Waves, by A. N. Dresin.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, do., 1971, pp. 3-7.  
FDD ATT Special 43-70

Apr 70

400

Radiative Heat Exchange During Flow of a Gas  
Through a Tube, by V. N. Vetrutetskiy. 11 pp.  
RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 5,  
1968, pp 82-88.  
NASA TT F-12, 376

U.S. AIR FORCE

Sci-Phys  
Nov 69

395,735

Stability of a Liquid Film on the Surface of a  
Rotating Cylinder, by L. N. Maurin.  
RUSSIAN, per, Zh Srik Mekh i Tekh Fiz, No 5,  
1968, pp 98-99.  
NASA TT F-12, 377

Sci-Phys  
Nov 69

395, 786

Investigation of the Structure of Polymer  
Solutions Using A Hot-Wire Anemometer, by  
G. I. Barenblatt.  
RUSSIAN, per, Zhurnal Prik Mekh i Tekh fiz.,  
No 5, 1968, pp 118-122.  
FTD-S-471

Mar 69

378,630

Plasma Diffusion in a Toroidal Stellarator, by  
A. A. Galeev, R. Z. Sagdeev, 24 pp.  
RUSSIAN, per, Zh. Prik Mek Tekn Fiz, No 6, 1968,  
pp 3-12.  
AEC/MATT-Tr-62-71

May 71

Stationary Supersonic Source of Non-equilibrium  
Plasma, by G. A. Lukyanov.

RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 6,  
1968, pp 13-19.

NASA TT F-12, 365

Sci-Phys  
Oct 69

393, 408

Acceleration of a Conducting Gas in a Strong  
Non-stationary Electromagnetic Field, by  
G. M. Ban-Zalikovich.

RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 6,  
1968, pp 36-40.  
NASA TT F-12, 366

Sci-Phys  
Oct 69

393,409

Radiative-conductive Heat Transfer in a Plane  
Absorbing Layer, by S. S. Kutateladze, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Tekhnicheskoy Fiziki, No 6, 1968, pp 57-63.  
FTD HT Speical 356-69

oct 69

395,309

REQ TR CHECK

13-4-20

TD 10

STUDY OF MOVEMENT IN THE NEAR REGION OF AN  
EXPLOSION IN A SOLID

KORYAVOV V P; VILENSKAYA G G

UR: ZHURNAL ERIKLADNOY MEKHANIKI I  
TEKHNICHESKOY FIZIKI, ISSUE 6, 1968

PGS: 76 - 85

*On file as**MS-24-71-1665**10/10/71*

English title unknown, by A. G. Ivanov, et al.  
RUSIAN, per, Zhurnal Prikladnoy Matematiki i  
Tekhnicheskoy Fiziki, No 6, 1968, pp 94-93.  
FTD HP S 585-69

Studying the Behavior of Closed Steel Shells  
during the explosion of explosive charges  
from within

NOV 69

395, 396

Investigation of EN Field in Near Zone During  
Detonation of Solid Explosives, by A. P. Boronin.  
RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 6, 1968,  
pp 99-103.

FTD HT Special 215-70

Sci-Phys  
Jul 70

Optical Properties of an Electrodeless Discharge  
Plasma in an Air Stream, by Y. A. Bulyevich, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i  
Technicheskoy Fiziki, No 6, 1968, pp 111-116.  
FTD RT Special 74-70

APR 70

405,847

A Numerical Solution to the Problem of  
Laminar Flow in a Conduit, by L. A. Vulis,  
Yu. Ye. Dzhavgashtin.  
RUSSIAN, per, Zh Prik Nekh i Tekh Fiz, No 6,  
1968, pp 120-123.  
NASA TT F-12,373

Sci-Phys  
Oct 69

393, 396

Analysis of Reflection Phenomena of Shock  
Waves from a Grid Flow, by L. A. Zakharyaminovskiy,  
RUSSIAN, par, Zh Prik Mekh i Tekh Fiz, No 6,  
1968, pp 123-129.  
NASA TT F-12, 367

Sci-Phys  
Oct 69

393,410

The Evolution of Waves in a Heterogeneous  
Dispersing Medium, by V. T. Gurovich.  
RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 6,  
1968, pp 154-155.  
NASA TT P-12, 368

Sci-Phys  
Oeg 69

393,403

Two Model Problems on Aggressive Fluid  
Motion in Porous Media, by V. I. Pen'kovskiy.  
RUSSIAN, por, Prikl Mekh i Tekh Fiz, No 6,  
1968, pp 155-158.  
CIA X-6976

Apr 69

379,960

On the Possibility of Measuring Turbulence By  
the Correlation Method, by N. P. Derevyanko.  
RUSSIAN, per, Zh Prikl Mekhan i Tekhn Fiz,  
No 8, 1963, pp 80-86.  
Dept of Navy API/JHU T-2190

Sci  
Dec 68

368,658

REQ TR CHECK

76E9  
TRP3

DIAMAGNETISM OF A CONDUCTOR MOVING IN A  
MAGNETIC FIELD  
FEDOROVICH G V  
UR: ZHURNAL PRIKLADNOY MEKHANIK I  
TEKHNICHESKOY FIZIKI, 1969, pp 55-61

*Handwritten Text*

1522-23-260

Static Model of Linear Polymers in the Amorphous State, by Y. A. By Buyevich  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 1, 1969, pp 58-74.  
FDD IPT Special 75-70

apr 70

405,348

Interaction of Acoustic Waves With the Hot  
Surface of Solid Fuels at Higher Frequencies,  
by V. P. Volkov, et al.  
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki  
Tekhnicheskoy Fiziki, No 1, 1969, pp 96-99.  
FTD IIT Special 554-69

oct 69

394,339

Quantitative Investigations of Shockwave Processes  
Behind a Shock by Using Shadow Methods, by  
V. A. Yemal'yanov.

RUSSIAN, par, Prik Matematicheskikh Nauk, No 1, 1969,  
pp 101-104.

CIA X-7053

July 60

385,445