

Physics of gas discharge plasma (Selected
articles) 78 pp.
RUSSIAN, Fizika gazorazryadnoy plazmy,
No 2, 1969, pp 114-129, 130-138, 139-147,
148-155, 161-173, 174-184
AIR/FTD-MT-24-1485-71

oct 72

0

Experimental Investigation of the Generation
Spectrum of a Helium-Neon Laser ($\lambda=0.63 \mu$) in
a Three Mirror Cavity, by V. G. Domelunkhen,
T. B. Tolchinskaya, 5 pp
RUSSIAN, rpt, Flukha Gazovyyh Lazeroy, 1969
pp 36-40
CIA X 7261

August 70

Sodium Line Laser with Na^+ and H^- Recombination,
by A. M. Shukhtin, A. S. Tibilov, 25 pp.
RUSSIAN, per. Fizika Gazovykh Laserov, Leningrad,
1969, pp 122-144.
JPRS 51577

$\chi - 7262$

Sci-Phys
Oct70

Physical Geography of the USSR, by Davydova,
Tushinskiy, 666 pp.
RUSSIAN, bk, Fizicheskaya Geografiya, 2d Edition,
1966, pp 205-438; 445-476; 484-553; 577-801.
ACSI J-6585
ID 2204001769

USSR/Geog

Mar 70

404,808

Physical Geography of the USSR, by Davydova,
Tushinskiy, 294 pp, 6 Maps.
RUSSIAN, bk, Fizicheskaya Geografiya, 2nd edition,
pp 3-204; 439-444; 447-483; 554-576; 802-841,
1966.

ACSI J-6585a
ID 2204001769

USSR/Geog
Sept 70

Physical Geography of the USSR, by
N. A. Gvozdenitskiy, N. I. Mikhaylov, 451 pp.
RUSSIAN, bk. Fizicheskaya Geografiya SSSR,
Asiatic Part, Second Revised Edition, pp 1-544,
1970.
ACSI J-8028
ID 2204015670

USSR/Geog
Jan 71

Physiology of Deep Dormancy in Seeds, by
M. G. Nikolayeva. 219 pp.
RUSSIAN, bk, Fiziologiya Glubokogo Pokaya
Semyan, 1967.
CFSTI TT 68-50463

Sci-Agri
Aug 69

389,527

The Physics of the Combustion of Gases, by
Ye. S. Shchetnikov. Vol 1 of 2. 699 pp.
RUSSIAN, bk, Fizika Goreniya, Gazov Moskva, 1965
pp 1-739
AIR/FID/IT-23-496-68 Vol 1 of 2

sci/ propulsion andf uels
nov 69

398,261

The Physics of the Combustion of Gases, by
Ye. S. Shchetnikov. Vol 2 of 2. 699 pp.
RUSSIAN, bk, Fizika Goruyiya, GIZOV Moskva, 1965
pp 1-739.
AIR/PTD/HT-23-496-68 Vol 2 of 2

sci/ propulsion and fuels
nov 69

397,262

Plenum Press

FIZIKA GORENIYA I VZRYVA - quarterly
(Combustion, Explosion and Shock Waves)
Translation begins with 1965,
Vol. 1 No. 1
Order from ~~the~~ Faraday Press, Inc.
84 Fifth Avenue
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\$ 105.00/year elsewhere
\$ 40.00 single issues
Price of back volumes: \$ 100.00/year

Russ

Determination of Detonation Parameters in
Condensed Explosives, by V. A. Veretennikov,
A. N. Dremn and K. K. Shvedov, 14 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 3-9.
JPRS 35530

Army Mat Cmd
SI-A 75-614

USSR
Sci-Phys
Jun 66

301,795

Hydrodynamic Solutions for One-Dimensional
Disturbance of An Unstable Detonation Wave,
by L. A. Il'kayeva and N. A. Popov, 11 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 20-26,
JPRS 35530

Army Mat Cnd
AI-7-75-632

USSR
Sci-Phys,
Jun 66

301,796

Conditions for Ignition of Pore Walls during
Combustion of Porous Explosive Charge, by
A. D. Margolin and S. V. Chuyko, 14 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 27-35
JPRS 35530

*Army Mat Cnd
AT-7-75-615*

USSR
Sci-Phys
Jun 66

301,797

Dynamic Conditions of Thermal Explosion,
by A. G. Strunina, V. T. Gontkovskaya and
A. G. Merzhanov, 8 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 36-40.
JPRS 35530

USSR
Sci-Phys.
Jun 66

301,798

Initiation of Explosion Through Shock,
by M. Ya. Vasil'yev, 9 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No. 3, 1965, pp. 45-48.
JPRS 35530

USSR
Sci-Phys.
Jun 66

301,799

Determination of the General Form of the
Detonation Rate As A Function of Explosive
Charge Radius, by G. G. Rempel', 11 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, pp. 49-53
JPRS 35530

USSR
Sci-Phys,
Jun 66

301,800

The Problem of the Burning of Certain
Ballistite Powders, by E. V. Konev. 5 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 3, 1965, Akademiya Nauk SSSR - pp.64-67
Sibirskoye Otdeleniye.
ACSI J-0748
ID 2204046566

Sci-Econ/USSR
Oct 66

312,162

Interaction of Shock Wave In A Plastic Medium
with a Displacing Obstruction with Considera-
tion of Influence of Free Surface, by G. M.
Iyakhov, R. A. Osadchenko and N. I. Polya-
kova, 17 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 3,
1965, pp. 83-92.
JPRS 35530

USSR
Sci-Phys,
Jun 66

301,801

Investigation of the Reaction Time in the
Electromagnetic Detonation of Liquid Explosives,
by A. N. Dremín, O. K. Bozanov and
I. G. Koba, 10 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,

No 3, 1965, pp. 93-97.
JPRS 35530

USSR
Sci-Phys,
Jun 66

301,802

Structure of Shock Waves in KCl and KBr at a
Dynamic Pressure of up to 200,000 Atmospheres,
by A. N. Dremmin, S. V. Pershin, V. F. Pogorelov,
8 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp. 3-9.
JPRS 37560

USSR
Sci-Phys
Sept 66

311,669

On Investigations of Continuous Detonations
in a Ring Channel, by V. V. Mikhailov, M. E.
Topchiyan, 5 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp 20-23,
JPRS 37560
JPRS 36674

USSR
Sci-Phys
Sept 66

311,670

Gasless Compounds as a Simple Combustion Model
for Non-Volatile Condensed Systems, by E. I.
Maksimov, A. G. Merzhanov, V. M. Shkuro, 8 pp.
RUSSIAN, per. Fizika Goreniya i Vzryva, No 4,
1965, pp 24-30.
JPRS 37560
JPRS

USSR
Sci-Phys
Sept 66

311,671

Sliding of Detonation and Shock Waves on a
Liquid Surface, by A. A. Borisov, S. M. Kogarko,
A. V. Lyubimov, 9 pp.

RUSSIAN, per. Fizika Goreniya i Vzryva, No. 4,
1965, pp 31-38.

JPRS 37560

JPRS 36674

USSR
Sci-Phys
Sept 66

311,672

On Problem of Ignition of Condensed Systems
by Radial Energy. by V. N. Vilyunov, O. B.
Sidonskiy. 7 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp 39-43,
JPRS 37560
JPRS 36674

USSR
Sci-Phys
Sept 66

311,673

Combustion of Condensed Mixtures with
Polydispersing Components, by S. A. Tsyganov,
N. N. Bakhman, V. V. Evdokimov, 8 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp 44-51.

JPRS 37560

SPR9 36674

USSR
Sci-Phys
Sept 66

311,674

On Influence of Hydrostatic Pressure on
Parameters of Underwater Explosion, by
F. A. Baum, N. S. Sanasaryan, 13 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp. 52-62.
JPRS 37560

USSR
Sci-Phys
Sept 66

311,675

On Wave Distribution in a Limited Elastro-
Plastic Rod Under a Lengthwise Stroke, by
G. G. Konstantinov, L. L. Marchenko, K. Kh.
Shkhinek, 10 pp.
RUSSIAN, per, Fizika Goreniya i Vozryva, No 4,
1965, pp. 63-70.

JPRS 37560

JPRS 36674

USSR
Sci-Phys
Sept 66

311,676

Experimental Study of Explosion Stresses in soft
Ground on Engineering Structures by L. I. Koshelev,
et al,
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp 71-77.
~~*JPRS/NY-13299~~

6 36674

Sci-Engr
Jun 66

Explosion Effect on a Surface Dynamic
Compression of Potassium Nitrate, by S. S.
Batsanov, A. A. Deribas, E. V. Dulepov, M. G.
Ernakov, V. M. Kudinov, 6 pp.
RUSSIAN, per. Fizika Goreniya i Vozvva, No 4,
1965, pp. 78-82.
JPRS 37560

JPRS 36674

USSR
Sci-Phys
Sept 66

311,677

Ignition of Powder by a Shock Wave, by Te. Ye.
Kiselev, et al,
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4,
1965, pp 83-84.
*JPRS/RL-13299

6 36674

Sci-Engr
Jun 66

Calculation of thorough Combustion of
Sprayed Hydrocarbon Fuel in Forced
Furnace Installations, by
R. S. Tyul'panov, 18 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
No 1, 1966, pp 88-99. P100062767
FTD-HT-66-622

Mechanical, Industrial, Civil,
Mar 67

320,416

Photoelectric Method of Measuring the Turbulence
of High-Temperature Flow, by A. M. Trokhan,
I. L. Kuznetsov, et al. 7 pp.
RUSSIAN, per, Fizika Goraniya i Vzryva, No 1,
1966, pp 112-116.
AIR/FTD/MT-24-171-68

Sci/Methods & Equip
Feb 69

375,529

Ammonium Perchlorate Detonation Ability, by
Author unknown. 10 pp.
RUSSIAN, per, Fiz. Goreniya i Vzryva. #2, 1966
Dept of Navy 5269 ONI Tr 2358

Sci/Mil
Aug 67

336,601

Heat theory of Ignition, by V. N. Vilyu-
nov.
RUSSIAN, per, Fizika Goreniya i Vrzyva,
No 2, 1966, pp 77-82.
AIR/FTD/HT-23-739-68

Sci-Prop & Fuels
Apr 69

380,513

The zone of exthermic in one-dimensional
striking wave in gas. By R. I. Soloukhin,
18 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva,
1966, vol 2 No 3, pp. 12-18
ETC-69-29686

Nov 69

396,049

Detonation Attenuation in Liquid Explosive Mix-
tures of Tetranitromethane and Ethyl Iodide, by
V. S. Solov'yev, V. A. Letyagin. 7 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 3,
1966, pp 31-35.
AIR/FTD/ITT-23-141-68

sci/propulsions & fuels
feb 69

375,632

Temperature Coefficient of Combustion Rate of
Condensed Mixtures for Various Component Ratios,
by G. V. Lukashonya, G. M. Malinonko, 16 pp.
RUSSIAN, per, Fizika, Goreniya i Vzryva, No 3,
1966, pp 59-66.

ARM/RSIC/Tr-889-69

GOVER

Sci/Prop & Fuels
Mar 69

3769964

Explosive Hardening of High-Manganese
Steel, by A. A. Deribas.
RUSSIAN, per, Fiz. Goreniya i Vsergva,
No 3, 1966, pp 87-94.
BISI 6597

Sci/Materials
Jan 69

353,167

Initiation of Detonations of Compacted
Explosives by Radiation of an Optical
Quantum Generator, by A. A. Brish, I. A. Galeyev,

5 pp.

RUSSIAN, per, Fiz. Goreniya Varyva, No 3, 1966,

pp 132-133.

P911045668

ABC UCRL-TRANS-10164

AIR/FTD-HT 23-790-67

Sci-Physics

Mar 68

350,668

Theory of the Burning of Powders and Solid Rocket
Fuels, by A. F. Balyaev & N. N. Bakman.
RUSSIAN, per, Fiz. Goreniya i Vozvya, No 4,
1966, pp 3-17.
Dept of Navy/ APL/JHU T-2091

Sci/Prop & Fuels
Feb 68

349.542

Theory of the Thermal Explosion of Self-Accolorating
Reactions, by V. V. Barzykin.
RUSSIAN, per, Fiz. Goreniya i Vzryva, No 4,
1966, pp 18-23.
Dept of Navy/APL/JHU T-2083

Sci/Phys
Mar 68

350,987

Relaxation Processes in Gases. I. Nonequilibrium Energy Distribution With Respect to Translational Degrees of Freedom, by A. I. Osipov.

RUSSIAN, per, Fiz. Goreniya i Vzryva, No 4, 1966, pp 42-61.

Dept of Navy APL/JHU T-2135

Sci/Phys
Sep 68

363,242

Role of the Leading Shock Wave in the Spread of
Slow-Speed Detonation in Liquid Nitroglycerin
Charges, by A. V. Dubovik, et al.
RUSSIAN, per, Fiz. Goren. i Vzryv., No 4, 1966,
pp 105-110.
NLL Ref: 5828.4F (N.7479)

Sci/Phys
May 69

381,000

Kharin, D. A.

*Characteristics of seismic effect of underground
explosions. 14 pp*

FIZIKA GORENIYA I VZRYVA, No 4, 1966, pp 111-123

PI00245468-V

FTD-MT-24-306-67

Instability Criterion for Turbulent Combustion,
by S. K. Aslanov.
RUSSIAN, per. Flzika Goreniya i Vozvva, Vol 2, No
4, 1966, pp 139-143.
Dept of Navy/APL/JHU T-2065

Sci-Physics
Dec 67

346,601

Effect of an Increase in External Pressure on
the Detonation Capacity of Some Explosives, by
A. F. Molyaev & M. K. Sukoyan.
RUSSIAN, per, Fiz. Goreniya i Vzryva, Vol 3,
No 1, 1967, pp 19-22.
Dept of Navy/APL/JHU T-2130

Sci/Phys
May 68

358,190

FIZIKA GORENIYA I VZRYVA, No 1, 1967, pp 45-53
NTC 70-11404-19D

Determination of Reaction Rate Constant for the
Reaction of the Hydroxyl Radical With Hydrogen,
by V. V. Azatyan, S. G. Synoyeva, et al. 15 pp.
RUSSIAN, par, Fizika Gorniya i Vzryva, Vol 3,
No 1, 1967, pp 77-85.
AIR/FTD/HT-23-776-68

sci/ propulsion and fuels
sept 69

391,010

Ignition Delays of Hydrocarbon Fuels at High
Temperatures, by V. L. Zimont and Yu. M.
Trushin, 11 pp.
RUSSIAN, per, Fiz Goreniya i Vozryva, Vol 3, No
1, 1967, pp 86-93.
Dept of Navy/APL/JHU T-2126

Sci-Phys
May 68

356,215

Combustion of a Polydisperse Liquid Fuel Jet,
by R. S. Tyul'panov and O. P. Sobolev, 6 pp.
RUSSIAN, per. Viz Goreniya i Vozdya, Vol 3,
No 1, 1967, pp 94-97.
Dept of Navy/APL/JHU T-2128

Sci-Prop & Fuels
May 68

356,217

Kinetic Computations of Low Temperature Flames
of Hydrogen and Carbon Monoxide, by
V. Ya. Vasevich, S. N. Kojarko, 11 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Nbl 3,
No 1, 1967, pp 98-104.
AIR/FTD/AF-23-776-68

sci/ propulsion and fuels
sept 69

391,011

Determination of the Parameters of a Compression Wave in Rocky Ground, by
B. D. Kristoforov, A. N. Romashov.
RUSSIAN, per, Fizika goreniya i Vzryva,
Vol 3, No 1, 1967, pp 137-142.
AIR/FTD/HT-23-696-68

Sci-Ear Sci
Apr 69

379,562

Ignition of Powdered Fuels Behind Shock
Waves, by A. A. Borisov.
RUSSIAN, per, Fizika Goreniya i Vrzyva,
Vol 3, No 2, 1967, pp 308-309.
AIR/FTD/HT-23-720-68

Sci-Prop & Fuels
Apr 69

380,516

Combustion of Fuels With Nonisotropic Heat
Conductivity, by L. K. Gusachenko. 6 pp.
RUSSIAN, rpt, Fizika-Goreniya i Vzryva, vol 3,
no. 2, 1967, pp 310-321.
AIR/FTD/HT-23-362-69

sci/propulsion and fuels
jan 70

399,869

Measurement of the Velocity of a High-Temperature Gas in a Boundary Layer by an Electron-Optical Method, by B. P. Mironov, A. V. Fafurin. RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 3, No 2, 1967, pp 312-314. AIR/FTD/HT-23-968-68

Sci-Phys
Apr 69

380,518

FIZIKA GORENIYA I VZRYVA, No 3, 1967, pp 323-327
NTC 70-11401-21B

Effect of Ingredient Particle Size on Burning
Velocity of Composite Systems at Various
Fuel/Oxidiser Ratios, by Yu. A. Kondrashkov,
N. N. Bakhman, 7 pp.
RUSSIAN, par, Fizika Goreniya i Vozvya.
Moscow, No 3, 1967, pp 339-343.
JPRS 46,758

NTC 70-11402-21B

Sci/Prop & Fuels
Nov 68

370,199

Yerokhin, B. T.

Theory of powder combustion in a turbulent flow.

FIZIKA GORENIYA I VZRYVA, Vol 3, No 2, 1967, pp 344-354

Navy APL/JHU T-2175

NTC 70-11384-20M

Detonation of Liquid Explosive Mixtures at low
Temperatures, by V.A. Letyagin, V.S. Solov'yev.
7 pp.

RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 3,
No 3, 1967, pp 393-397.

AIR/FTD/HT-23-1038-68

ALL Rpt. 5828.4 (M. 7880)

sci/propulsion and fuels

~~apr~~ may 69

380,106

Measurement of the Oxygen Recombination Rate in
Shock Waves, by R. I. Soloukhin. 14 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 3,
No 3, 1967, pp 402-411.
AIR/ETD/AFI-23-899-68

sci/physics
nov 69

397,019

Experimental Determination of the Temperature
Field of Axisymmetric Wake Jets by the Toepler
Method, by N. A. Zamyatina, O. I. Navoznov.
RUSSIAN, per, Fiz Goreniya i Vzryva,
No 3, 1967, pp 455-461.
Dept of Navy APL/JHU T-2187

sci/phys
Nov 68

368,536

AEC (SCL-T-710240) INFLUENCE OF STARTING PARAMETERS ON RIPPLE FORMATION IN EXPLOSIVE WELDING OF METALS. Doriban, A. A.; Kudinov, V. M.; Matvoenkov, F. I.
Translated by A. M. A. Minoer for Sandia Labs., Livermore, Calif., from Fiz. Goreniya Vzryva; No. 4, 561-8(1967). 12p.
Dep. NTIS.

metallurgy; translations 11F

MN-25 P NSA

Generalized Adiabatic Shock Curves of Organic
Liquids, by I. M. Voskobnikov, A. N. Afanasonkov.
RUSSIAN, per, Fiz Goreniya i Vzryva, No 4, 1967,
pp 585-593.
NTC-69-13248-07D

Sci-Chem
Spet 69

391,689

Experimental Determination of Graphite
Ablation Rates Under Conditions of
Substantial Nonisothermality, by
A. I. Leont'yev, et al.
RUSSIAN, per, Fizika Goreniya i
Vzryva, Vol 4, No 2, 1967, pp 248-254.
NASA TP F-11,738

NAVY APL/JHU T-2153 10 pp

Sci/Phys
Oct 68

369,070

EPRS 47,007

DC

22704
19 Nov 68

Computing the Pressures for Shock-Wave Initiation of Homogeneous Explosives by I.M. Voskoboynikov, & V.M. Bogomolov, Russian, per, Fizika Goreniya i Vzrya, Novosibirsk, No.1, Jan-March 68, pp 45-49, USSR/Sci

asap
incl. graphics,
source- do not mutilate pp

The Effect of Aluminum on the Combustion of
Ammonium Perchlorate with Polyformaldehyde, by
A. A. Zenin, A. P. Glazkova, 9 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Moscow,
Vol 4, No 3, 1968, pp 299-304.
JPRS 47540

Sci-Phys
Mar 69

374,943

Kinetics of the High-Temperature Thermal Decomposition of Ammonium Perchlorate, by G. B. Manelis, A. V. Proshchin, 12 pp. RUSSIAN, per, Fizika Goreniya i Vzryva, Moscow, Vol 4, No 3, 1968, pp 305-313.
JPRS 47540

Sci-Phys
Mar 69

374,944

Causes for Anomalies During Combustion of Ammonium
Perchlorate and Nitrate, by A. P. Glazkova, 12 pp.
RUSSIAN, per, Elgika Gorennya i Vozryva, Moscow,
Vol 4, No 3, 1968, pp 314-322.
JPRS 47540

Sci-Phys
Mar 69

374,945

The Mechanism of the Effect of V_2O_5 on the Combustion Rate of Compounds Based on Ammonium Perchlorate and Metallic Fuels, by L. D. Romodanova, P. F. Pokhil, 6 pp.
RUSSIAN, per. Fizika Goreniya i Varyva, Moscow, Vol 4, No 3, 1968, pp 330-333.
JPRS 47540

Sci-Phys
Mar 69

374,946

Fatah Considers Itself Organized Ra

Ignition of a Metal Particle, by
M. A. Gurevich, A. M. Stepanov.
RUSSIAN, par, Fiz Goreniya i Vzryva, No 3,
1968, pp 334-342.
Dept of Navy APL/JHU T-2309

Sci-Phys
Oct 69

393,330

Stimulation and Propagation of Detonation Processes During Weak Initiation of Liquid Explosives, by
A. V. Dubovik, V. K. Bobolev, 20 pp.
RUSSIAN, per, Fiz. Goreniya i Vzryva,
No 4, 1968, pp 483-500.
Dept of Navy APL/JHU T-2167

Sci/Phys
Oct 68

368,948

Flame Propagation When Two Successive
Reactions Take Place in a Gas, by
B. I. Khaykin.

RUSSIAN, per, Fiz Goreniya i Vzryva,
Vol 4, No 4, 1968, pp 591-599.
Dept of Navy APL/JHU T-2277

Sci-Phys
July 69

385,278

Linear Pyrolysis of Polymethyl Methacrylate, by
Ye. V. Tkachenko, V. B. Ulybin.

RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5,
No 5, 1969, pp 16-26.

Dept of Navy APL/JHU T-2424

701?
Sci/Phys
July 70

Measurement of the Total Heat of High-Temperature
Gasification of Polymers, by B. M. Dmitriyev,
O. A. Kochetov.
RUSSIAN, per, Fizika Goreniya i Vozryva, Vol 5,
No 1, 1969, pp 26-30.
Dept of Navy APL/JHU T-2426.

Sci/Chem
July 70

Effect of Water, Ammonium Carbonate and Other
Additives on the Combustion of Explosives, by
V. Ye. Annikov, B. N. Kondrikov.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5,
No 1, 1969, pp 60-67.
Dept of Navy APL/JHU T-2425

Sci/Chem
July 70

On Combustion in Fast-Burning Explosives, by
V. S. Svetlov, A. Ye. Fogel'zang.
RUSSIAN, per, Fizika Goreniya i Vzyvya, Vol 5,
No 1, 1969, pp 67-75.
Dept of Navy APL/JHU T-2427

Sci/Chem

July 70

Computer Calculation of the Kinetic
Characteristics of Normal Flame Propagation, by
D. B. Akhmedov, V. A. Lobyshev.
RUSSIAN, per, Fizika Goreniya i Vozdukh, Vol 5,
No 1, 1969, pp 93-99.
Dept of Navy APL/JHU T-2428

Sci/Chem
July 70

Limiting Characteristics of Self-Ignition in
Methanol and Formaldehyde Mixtures, by
V. A. Bunev, B. M. Melamed.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5,
No 1, 1969, pp 139-144.
Dept of Navy APL/JHU T-2429

Sci/Chem
July 70

Supersonic Flow of Hot Gases Around Bodies, by
P. I. Chushkin, 10 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Novosibirsk,
Vol 5, No 2, 1969, pp 230-235.
JPRS 56832

Aug 72

Picatinny Arsenal
Req. 72-43 a

R-13916-D
18 Oct. 1971

Transition from burning to detonation in porous explosives.

By A. I. Korotkov, et al.

Source Fiz. Goreniya Vzryva. 1969, 5(3),
pp. 315-25

Language: Russian.
Please translate & type 1 copy only.

Picatinny Arsenal
Req. 72-43 d

R-13919-D
18 Oct. 1971

"Spread of the explosion in thin layers of solid explosives."

V. K. Bobolev, et al.

Fiz. Goreniya Vzryva. 1969, 5(3), pp. 331-8.

Language: Russian.

Please translate & type 1 copy only.

Picatinny Arsenal
Req. 72-43 b

R-13917-D
18 Oct. 1971.

"Detonation of porous explosives".
By V. Veretennikov, etal.
Fiz. Goreniya Vzryva. 1969, 5(3), pp. 338-47.

Language: Russian.
Please translate & type 1 copy only.

Low Speed Detonation in Explosive Powders, by
A. K. Parfenov, 9 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5, No 3,
Sept 1969, pp 347-354.
ARM/FSTC/HT-23-653-72

Aug 72

Combustion Temperature of Aerosols of Metal
Powders, by B. M. Zlobinskiy. 6 pp.
RUSSIAN, per. Fiz Goreniya Varyva, No 3, 1969,
pp 432-434.
NASA TT F-13,141

NTC 72-14333-218

Sci-Ph ys
Oct 70

A Statistical Method for Obtaining the Combustion
Characteristics of Metal Particles, by
M. A. Gurevich.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5,
1969, pp 441-444.
NTC 72-14347-21B

Jan 73

REFLECTIVITY OF EXPLOSIVES

GALEYEV, I, ETC LANGUAGE--RU COUNTRY--UR

FIZIKA GOREN. I VZRYVA, 'NAUKA', SIBIR. DTD.
AKAD. NAUK. 5/3, 1969, 447

FSTC-HT-23-0446-73

Explosion Stimulation and Action at High Hydrostatic
Pressures, 6 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5, No 4,
1969.
ACSI K-0960
FSTC-HT-23-303-72

Feb 72

Fizicheskii Arsenal
Req. 72-43

R-13918-D
18 Oct. 1971

"Propagation character at predetonation conditions
in porous explosives."

Obmenin, A. V., et al.

Fiz. Goreniya Vzryva. 1969, 5 (4), pp. 461-70.

Language: Russian.

Please translate & type 1 copy only.

The Determination of Critical Conditions for the
Initiation of Homogeneous Explosives by Shock Waves,
by I. M. Voskoboynikov, V. M. Bogomolov, 5 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5, No 4,
1969, pp 471-474.
ARM/FSTC/HT-23-975-71

Sept 71

The Mechanism of Initiation of Condensed Explosives
by Laser Radiation, by A. A. Brish, I. A. Galeyev,
7 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 4, 1969,
pp 475-480.
ARM/FSTC/HT-23-1327-71

Sept 71

Shock Sensivity of Solid Explosive with Con-
sideration of Explosion-----.,
by Is Il' Klochkov, 9 pp
RUSSIAN, per. Fizika Goreniya i Vzryvov,
Vol 5, No 4, 1969, pp 480-485.
●ACSI-K-1962
FSSC-HT-23-1233-72

May 72

Specifics of Excitation and Action of Explosion at
High Hydrostatic Pressures, by Ye. A. Levin,
S. A. Lovlya, 6 pp.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5, No 4,
Dec 1969, pp 495-499.
ARM/FSTC/HT-23-1000-71

Sept 71

Study of the Combustion of a Gas-Air Mixture
in a Fluidized Bed of Fine-Grain Material,
by A.P. Baskakov and I.V. Kirnos,
RUSSIAN, per. Fizika Goreniya i Vzryva,
Vol 5, No 4, 1969, pp 549-554.
APL/JHU-T-2547

Aug 71

Total Combustion Kinetics of Hydrocarbon Fuels,
by V. I. Zimont, Yu. M. Trushin.
RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 5,
No 4, 1969, pp 567-573.
FTD HT Special 393-70

APL/JHU-T-2550

Sci-Phys
Dec 70

Effect of Weightlessness on Diffusion Flame of
Butyl Alcohol, by I. M. Adburagimov. 9 pp.
RUSSIAN, per, Fiz Goreniya i Vozryva, Vol 3, June
1969, pp 184-189.
NASA TT F-12,834

Sci-Phys
Jul 70

A Statistical Method for Obtaining the Com-
bustion Characteristics of Metal Particles
by M. A. Gurevich. 8 pp.
RUSSIAN, per, Fiz. Goreniya Vzryva, Vol 5,
Sep 1969, pp 441-444.
NASA TT F-13,164

usa
sci-ther
nov 70

Study of the Fusion of Metal Particles During
Combustion of Metalized Ballistic Composites and a
Fuel-Oxidizer Mixture, by P. F. Pokhil.
RUSSIAN, per, Fizika Goreniya i Vzryva, No 1, 1970,
pp 80-92.
NTC-71-10162-19D

Nov 71

Mean Velocity of Powder Combustion for a
Harmonically Varying Heat Flux in the Flame Zone,
by I. G. Assovskiy, 5 pp.
RUSSIAN, per, Fiz Goren i Vzryva, Vol 5, No 4,
1970, pp 443-447.
CIA-X-7549

Mar 72

The Mechanism of Thermal Dissociation of
Diatomic Molecules, by S. A. Lenev, O. P. Saatalov,
9 pp.
RUSSIAN, per, Fizika Goreniya I Varyva, No 6, 1970,
pp 50-34.
ABC/SC-T-70-4045

Sci/Phy
Dec 70