

Zhur Jek'h Tij

Vol 12, # 2/3, pp 65-76 (42)

Investigation of Disruptive Strength of Gases

B. M. Gokhberg +
E. Ya. Zandberg

AEC Jr-355
Brookhaven

Forced Vibrations of a System Striking a Stop, by
I. G. Rusakov, A. A. Kharkevich,

RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 11-12,
1942, pp 715-721.

ATS RJ-1304

Sci - Phys
Jul 59

92, 219

On the Nature of Phases Occurring on the Surface
of Steel in Diffusion of Tungsten, by G. N.
Dubinin, Yu. A. Bagaryatskiy, 12 ..

RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 11,
1942, pp 1741-1750.

ACST, H-4804

Sci - Phys

Dec 59

104, 452

Kharakhorin, F. F.
PHASE RELATIONSHIPS IN [COMPRESSED GAS SYSTEMS. I]. BINARY SYSTEM NITROGEN-HELIUM.
[1961] 8p. 14 refs.
Order from OTS or SLA \$1.10

61-18035

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1940,
v. 10, p. 1533-1540.

DESCRIPTORS: *Nitrogen, *Helium, Liquids, Vapors,
Phase studies, Chemical equilibrium, Determination.

An experimental unit is described suitable for determination of the liquid-vapor equilibrium at pressures up to 200-250 atm. by the circulation method. Determination of p-x diagrams has been carried out for the system nitrogen-helium at 68, 77.3, 90.1, 107 and 111.5°K. The obtained data were compared with the experimental data reported by other authors. (Author) (Chemistry--Physical, TT, v. 6, no. 9)

61-18035

I. Kharakhorin, F. F.
II. Title: Binary ...

185419

Office of Technical Services

... in Heat Transfer to Solids
Forced Convection, by M. A. Stepanov et al.
author, 21 pp.

... Zhur Tskh Fiz, Vol X, 1940,
19.

AEC tr-5060

105,834

Electric Conductivity of Alumina at
High Temperatures, by A. R. Shulman,
14 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, 1940,
pp 1173-1182.

SLA R-2414

Sci

Aug 58

72,206

Antimony-cesium Emitters, by P. V. Timofeyev,
Yu. I. Lun'kova, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol X, No 1, 1940,
pp 20-23.

Sci Tr Center
RT-1514

Scientific - Physics

18,930

Absorption of Energy by Metals in Plastic Compression
As a Function of Melting Point, by A. A. Federov, 14 pp.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, No 11, No 11,
1941, pp 999---.
ARM/FSTC/HT-23-778-71

Jan 72

Klibanova, Ts. M., Pomerantsev, V. V., and
Frank-Kamenetski, D. A.
DIFFUSION COEFFICIENTS OF GASES AT HIGH
TEMPERATURES. [1962] [32]p. (figs. omitted) 7 refs.
Order from OTS or SLA \$3.60 62-18273

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1942,
v. 12, no. 1, p. 14-30.

DESCRIPTORS: *Diffusion, *Gases, *High temperature
research, Capillary tubes, Theory, Differential
equations.

The diffusion coefficients of CO_2 in air at temperatures
from 17° to 1260° C. and of H_2O in air at temperatures
from 100 to 1200° C. were determined. The possibility
of calculating the diffusion coefficients with the equation
of Sutherland was confirmed. An empirical equation is
given for determining the Sutherland constant of mixed
gases from the constants for the pure gases.
(Chemistry--Physical, TT, v. 9, no. 10)

62-18273

I. Klibanova, Ts. M.
II. Pomerantsev, V. V.
III. Frank-Kamenetski, D. A.

Office of Technical Services

Agency: OSA/PSC
P.O.no.: 69-1-6

R-10124-D
13 Feb. 1969

Title: Theory of vapor condensation in the presence
of non-conducting gases.

Author: D. A. Frank-Kamenetsky

Source: Zhurnal Tekhnicheskoi Fiziki, 7, 5.7, 1942.

Language: Russian

30pp

Please translate and send back 1 copy; a check for
already available translation is desirable first.

Very truly yours,
[Signature]

The Production of X-Ray Photographs With Very
Short Exposure Times, by V. A. Tsukerman, A. I.
Avdeyenko, 14 pp.
RUSSIAN, per, Zhurnal Tekh Fiz, Vol XII, 1942,
pp 185-196, 9230425.
AEC LA-tr-65-21

293,006

Sci-Phys
Nov 65

A High-Power Electric Spark in Air at
Atmospheric Pressure, by I. S. Abramson,
I. S. Marshak, 18pp
RUSSIAN, per, Zhurnal Tekhicheskoi Fiz, Vol 12,
1942, No 10, pp 632-639
OTS TT-64-11821

Sci - Phy
May 67

326,520

A High-Power Electric Spark in Air at Atmospheric
Pressure, by I. S. Abramson, F. S. Marshak, 13 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XII, No 10,
1942, pp 632-639. 9223018
Amer Meteorol Soc

T-R-414

NLL 7773.75 1964, on loan

Sci - Phys
Jul 64

263,871

Handwritten: Yu L.

Handwritten: 234, 473 - 34

Handwritten: OTS 63-14569

Doc. - Copy
Date 63

Handwritten: 234, 473

Myasnikov, L. L.
OBJECTIVE RECOGNITION OF SPEECH SOUNDS
[Ob'ektivnoe Raspoznvanie Zvukov Rech]. [1962]
115 p. [USASIA] Trans. Log no. 1959.
Order from OTS or A. \$1.60

62-32641

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR)
1943 [v. 13] no. 3 [p. 109-115].

DESCRIPTORS: *Speech, Intelligibility, *Speech
transmission, *Speech representation, Sound.

(Research Methods--Communication Theory, TT,
v. 10, no. 1)

62-32641

- I. Title: Speech recognition
- I. Myasnikov, L. L.
- II. USASIA Trans-1059
- III. Army Signal Intelligence Agency, Arlington, Va.

Office of Technical Services

The Accumulation of Acetylene in Condensers of Liquid-Air-Fractionating Apparatus, by P. Z. Burbo.

RUSSIAN, per Zh Tekh Fiz, Vol XIII, 1943, pp 116-122.

AEC Tr (Avail Brookhaven)

Scientific - Physics

Nov 1949 CFS

16,758

Zhur Zebah Fig Vol 13, no 7-8, 1943

"Evaluation of Tensile Diagrams
by means of Measuring Hardness"

Done in G.B. by ACSIL (admitted)
49/4658
P 21547T

See Index Anno, May 1950 P. 61

Magnetic Field Meter, by A. G. Kalashnikov,

RUSSIAN, per, Zhur Tekh Fiz., Vol XIII, No 7/8,
1943, pp 407-422. CIA 563363

ATIC P-13-8938/III

40,994

Sci - Physics

Jun 1956

On Combustion in a Turbulent Flow, by K. I. ⁹ Shchelkin, 16 pp.

RUSSIAN, per. Zhur Tekh Fiz, Vol XIII, No 9-10, 1943, pp 520-530. CIA: B472427

Sci Trans Center RT-541

10,974

Scientific - Aeronautics
CTS/DEX

Changes in Dispersion of Optical Glass as a Result
of Thermal Treatment, by V. A. Florinskaya

RUSSIAN, per, Zhur Tekh Fiz, Vol XIII, No 9-10, 1943,
pp 566.

D.S.I. ⁴T 472

Scientific - Physics

Conditions Producting a Marked Degeneracy in
Electron Gas, by K. S. Shifrin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944,
pp 40-42.

NRL Tr 18

Stress analysis by the Optical Method, by
V. L. Ginzburg.
RUSSIAN, per. Soviet Tech Dig, Vol XIV, No 3,
1944, pp 181-192.
NASA TT F-9327

Sci-Phys
Jun 69

261,098

On Jerks ("stick-slip") In Friction by A. Yu.
Ishlinskiy and I.V. Kragel'skiy.

RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol
XIV, No 4/5, 1944, pp 276-282.

CSIRO

Oct. 62

Effect of Admixtures of Antimony and Tellurium on the
Electrical Properties of Selenium, BY I. L. Kozlovskii
and D. N. Nasledov.

Full translation.

RUSSIAN, no per, Zhur Tekh Fiz, [USSR], Vol XIII,
No 11, 12, 1943, pp 627-636.

AEC Tr 1421

USSR

Scientific - Physics, chemistry, antimony, tellurium,
selenium

Nov 52 CTS/DEX

Influence of Excited States of the Impurity
Atoms on the Electric Properties of Semi-Conductors,
by K. S. Shifrin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944, pp 43-48.

NRL Tr 20

On the Theory of Electric Properties of Semi-Metals,
by K. S. Shifrin.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, pp 49-69,
1944.

MRL Tr 17

Zhur Tekh Fiz Vol 14, page 97-8 (1944)

Coupled Oscillations of Plasma and A Vacuum Resonator.
by Ya. I. Frenkel' .

AEC Trans (avail. Brookhaven)

Zhur Tekh Fiz Vol 14, page 99-107 (1944)

Factors Determining the Intensity of Oscillations in
the Plasma of a Gas Discharge,
by A. A. Slutskin and A. T. Maidanov.

AEC Trans (avail. Brookhaven)

The Burning of a Rapid Stream in a Pipe, by
Ya. B. Zel'dovich, 23 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, No 3,
1944, pp 163-171.

Sci Trans Center
RT-1948

Scientific - Physics Jan 55 CTS/DEX

20,847

Semenov, P.
THE FLOW OF LIQUIDS IN THIN FILMS (Technie
Zhukovti v Tonkikh Sloyakh). [1961] 6p. 4 refs.
[DSIR LLU] M. 2733.
Order from OTS or SLA \$1.10 61-23334

Unedited trans. of Zhurnal Tekhnicheskoi Fiziki
(USSR) 1944, v. 14, p. 427ff.

DESCRIPTORS: *Liquids, Motion, *Fluid flow, Thin
films, Mathematical analysis, Differential equations,
Fluid mechanics.

The flow of liquids in thin layers in the presence of a
sharp counterflow of gas were investigated. Six dif-
ferent regimes of flow are described, the existence of
which were demonstrated experimentally. The bound-
ary conditions are applied to the equations of flow, for
the calculation of gravity forces, the horizontal gra-
(Mechanics--Hydraulics, TT, v. 6, no. 12) (over)

61-23334

I. Semenov, P.
II. DSIR LLU M. 2733

Office of Technical Services

On the Theory of Dipole Excitation. by M.
Leontovich and M. Levin, 29 pp.

RUSSIAN, per, Zhur Tekh Fiz SSSR, Vol XIV, 1944
No 9, pp 481-506.

SLA R-1951

Sci

Jul 58

68,315

On the Vortex Sound From Rotating Rods, by E. Ya.
Yudin, 13 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XIV, No 9, 1944,
pp 561-567.

Scienc Trans Center RT-527

10,992

Scientific - ~~XXXXXXXX~~Aeronautics
GTS/DEK

Field Controlled Magnetron and Some of its Applications in the Range of Medium Ultra-short and Centimeter Waves, by S. Ya. Braude and A. M. Anchenko.

USSIAN, per, Zhur Tekh Fiz, Vol XIV, 1944, 611-622.

AEC Tr

16,414

Scientific - Electronics

Nov 1949 CTS

Zh Tekh Fiz Vol 14, page 630-7 (1944)

Quantum Discontinuity of Light and Discreteness of
Sensations, by S. Ya. Lifshits.

AEC Trans (avail. Brookhaven)

CHEBTAVSKIKH, A. K.

ZHURNAL TEKH. FIZIKI, vol 14, No 9, 1944

Effect of Lubricant on Physical Condition of Surfaces
Obtained in Rolling or Drawing of Metals

Butcher Tr 2156, \$4.75

(FDD 19264)

Compensation of Radio Disturbances, by Ya. L. Alp'ort,
S. N. Rytov, 34 pp.

RUSSIAN, no par, Zhur Tekh Fiz, Vol XIV, No 12,
Moscow/Leningrad, Dec 1944, pp 730-748.

CIA/FDD/U-5658

USSR

Sci - Electronics

11,718

Mar 54 CTS

Excitation of Resonance by Air Flow, by
D. I. Blokhintsev.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XV, No 1/2,
1945.

Navy Tr 1384/T 270

Sci - Physics
Mar 1957 CTS/dex

45,467

AF 1074995

Temperature Dependence of the Resistance of Selenium
Rectifiers for Reversed Current, by D. N. Nasledov.

English translation.

RUSSIAN, no per, Zhur Tekh Fiz, [USSR], Vol XV, No 4, 5,
1955, pp 206-211.

AEC Tr 1426

NR

Scientific - Physics, electronics, selenium rectifiers

Nov 52 CTS/DEK

Blat, M. I., Bresler, S. E., and Ryabinin, Yu. N.
A NEW METHOD OF STORING LIQUIFIED GASES,
tr. by Donald C. Rich and George F. Hill. 13 June 62
[13]p. 1 ref. AOMC Trans. nr 26-62.
Order from OTS or SLA \$1.60

62-25576

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1945,
v. 15, no. 12, p. 916-923.

DESCRIPTORS: *Liquefied gases, *Storage, *Con-
tainers, *Gels, Foams, Insulating materials,
Adsorbents.

Measurements of the mean coefficient of heat con-
ductivity of aerogel powder were conducted at tem-
peratures from -14.5 to -195.8°C and with various
pressures of the air which filled the pores of the aerogel
in the interval from 2×10^{-6} to 760 mm of mercury.
It was shown that thermal radiation is retarded by
(Engineering - Chemical, TT 62-25576) (over)

62-25576

- I. Blat, M. I.
- II. Bresler, S. E.
- III. Ryabinin, Yu. N.
- IV. AOMC Trans-26-62
- V. Army Ordnance Missile
Command, Redstone
Arsenal, Ala.

Office of Technical Services

Effect of Impurities in Selenium on the Electrical
Properties of Selenium Rectifiers, by H. A. Penin,
K. V. Astakhov.

Full translation.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVI, No 2, 1946,
pp 199-206.

AEC Tr 1616,

USSR
Scientific - Electronics

Jul 53 CTS

4013

PRINCIPLES OF A METHOD FOR STUDYING THERMAL
CONDITIONS IN SOIL, BY A. F. CHUDNOVSKIY,
7 PP.

RUSSIAN, PER, ZHUR TEKH FIZ, VOL XVI,
NO 2, 1946, PP 243-248. 9082377

AEC TR-4778

SCI - PHYS

NOV 61

173,197

The Contact Method of Measuring the Thermal
Properties of Solid Insulators, by A. F.
Chudnovskiy, 9 pp.

RUSSIAN, per, Zhur Tekh Fiz. Vol XVI, No 2,
1946, pp 249-254.

SLA Tr R-865

Sci - Physics

52,305

Sep 57

L.I. Levintov

A source of light for the spectrum analysis of
metalloids in hard bodies.

RUSSIAN per, Zhurnal Tekhnicheskoi Fiziki, 1946,
Vol XVI, No 3,

Sci Museum Lib No 50/3075

Wetting and Strength of Adhesion, by P. P.
Kobeko, F. I. Marei, 6 pp.

RUSSIAN, per, Zhur Tekh Fis, Vol XVI, 1946,
pp 277-282. 642432

Corps of Engr
Snow Ice & Permafrost
Tr 59

Sci- Phys, Geophys

Jan 59

79,257

642432

The Nature of an Undersea Echo, by V. S.
Anastasevich.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVI, No 3,
1946, pp 371-373.

AEC Tr 556

Sci Tr Center

DRB T.40.R.

Scientific - Geophysics

Aug 1951 CTS

12,772

^c
Critical velocities of ultracentrifuges, by V. I.
Sokolov, 6 pp.

RUSSIAN, par, Zhur, Tekh Fiz, Vol 16, No 4, 1946.

Sci Museum Lib No 51/1687 - London

See Also U.S. Nat. Adv. Comm. for Aeronautics
tech. mem. 1272(8).

Resonance Sound Absorber With Yielding Wall, by
S. N. Rzhavkin, 26 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol. XVI, No. 4, 1946,
pp 381-394. (See United States: National Advisory
Committee for Aeronautics.)

Technical memorandum 1273.

NACH 1273

~~SECRET~~

Sci. Museum Lib No 51/24 91-London

See A Cond R 291

Behavior of fast moving flow of compressible gas
in cylindrical pipe in presence of cooling by

G. A. Varshavkiy, 8 pp

RUSSIAN per - Zhurnal Tekhnicheskoy Fiziki, 1946,
vol 16 no 4, pp 413 - 416

Sci Museum Lib no 52/0132

RT-874

The Effect of the Speed of the Resistance of Metals to
Plastic Deformation, by L. D. Sokolov, 9 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVI, 1946, pp
437-442.

AEC Tr 3086
NACA N 11158

Sci - Phys

Nov 57

~~55,754~~
A-11336

Theory of Fatigue Strength in the Complex Stressed
State, by N. N. Afans'ev, 18 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 4, 1946,
pp 443-454.

Sci Trans Center RT-904

Physics
Scientific - ~~Engineering~~
CPS/DEX

14,079

Mechanical Properties of Non-Ferrous Alloys
under Static Load at Low Temperatures, by V. I.
Kostenets, 8 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 5, 1946,
pp 527-538. (loan copy only)

Sci

Aug 58

SIA R-1847

70,875

Kostenets, V. L. and Ivanchenko, A. M.
MECHANICAL PROPERTIES OF METALS AND
MELTS WITH STATIC LOAD AT LOW TEMPER-
ATURES (-196° and -253° C). IV. SOLDER. [1963] [8]p.
Order from CTS or SLA \$1.10 63-14490

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR)
1946, v. 16, no. 5, p. 551-554.

DESCRIPTORS: *Metals, *Soldering alloys, *Silver
solders, *Lead alloys, Statics, *Low temperature
research, *Mechanical properties, Measurement.

This communication contains the results of measure-
ments at +17, -196° and -253° C of the temporary
tensile strength σ_B , residual expansion-- δ , and
lateral contraction-- ψ of nine types of soft solders
with a lead content of 10% to 75% and a tin content of
90% to 25%, and of two types of hard silver solders.
(Author)
(Metallurgy, IT, v. 10, no. 2)

63-14490

I. Kostenets, V. L.
II. Ivanchenko, A. M.
III. Title: Solder

Office of Technical Services

Chernov, L. A.
FLOW AND DENSITY OF ACOUSTICAL ENERGY IN
A MOVING MEDIUM, tr. by B. W. Kuvshinov.
24 Apr 62, 6p. 2 refs. APL/JHU TG 230-T291.
Order from OTS \$0.50 62-11681

Trans. of Zhurnal Tekhnicheskoi Fiziki (USSR) 1946,
v. 16, no. 6, p. 733-736.

DESCRIPTORS: *Acoustics, *Sound, Propagation,
Density, Velocity, Pressure, Geometry, Numerical
analysis.

New formulae are derived for flow and density of acous-
tical energy in geometric approximation, depending
only on the potential of acoustical velocity and not con-
taining acoustical pressure.

(Physics--Acoustics, IT, v. 8, no. 4)

62-11681

- I. Chernov, L. A.
- II. APL/JHU TG-230-T291
- III. Applied Physics Lab.,
Johns Hopkins U.,
Silver Spring, Md.
- IV. Contract NOrd-7386

Office of Technical Services

On Sintering (In the Solid Phase) by B. Ya. Pines.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki,
Vol 16, No 6, 1946, pp 737-743.
*AEC

Sci/Mech, Civil Indist &
Marine Engr
Jan 67

(LID 28, 34)

Self-Excited Oscillatory Systems With Inverted Non-
linearity, by N. F. Teodorovich, 9 pp.

Call of

RUSSIAN, no per, IZVESHCHENIYA, Vol. XI, No 7,
Moscow, Jul 1946, pp 845-850.

CIA/TOD U-8729

59, 746

RUSSIAN

Sci - Electronics, nonlinear self excited systems
Oct 50

The Optical and Electrical Properties of Silver Films
on Glass, by P. M. Morozov, M. M. Butslov.
RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 8,
1946, pp 857-878.

ERDL, Ft Belvoir T-1719
(AD - 600225)

OTS - π -64-15585

Sci Museum 49/45⁷₂
Great Britain

Sci - Phys
Oct 64

267,624

(no 2008)

Continuous Self-Excited Oscillations in the Abraham-Block Multivibrator Circuit, by N. F. Fedorovskii, 6 pp.

Full tr

RUSSIAN, no par, Zhurn Tekh Fiz, Vol XVI, No 8, Moscow, Aug 1946, pp 941-946.

CIA/FDD U-6804

39,747

USSR

Sci - Electronics, pulse circuit

Oct 56

Zhur Tekh Fiz Vol 16, page 1021-30 (1946)

Generation of Power Electrical Oscillations in the
Low Pressure Discharge. by V. L. Granovski and T. A.
Suetin.

AEC TRANS (avail. Brookhaven)

Measurement of the Thermal Conductivity of
Lead Sulfide, by Y. A. Dunayev, 7 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No
10, 1946, pp 1101-1104.

SLA R-1806

Sci

68,347

Jul 58

The Application of Single Crystals to the Study
of the Structure of Tempered Martensite, by
G. Kurdyumov, L. Lysak.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 11,
1946, pp 1307-1318.

Sci Tr Center

RT-3109

30,545

Sci - Physics

Jan 1956/CTS No 77

The Texture of Nickel and Copper Electrodeposits,
by S. M. Kochergin.

RUSSIAN, per, Zhar Tekh Fiz, Vol XVI, No 11,
1946, pp 1325-1336.

Sci Tr Center
RT-3110

Sci - Physics
Jan 1956 CTS No 77

30,552

The Formation of Supersaturated Vapour in the
Process of Its Condensation on a Surface, by
A. G. Amelin, 32pp
RUSSIAN, per, Zhurnal Tekh Fiz, Vol 16, 1946,
No 12, pp 1409-1426
OTS TT-64-19977

Sci - Eng
June 67

329,467

Changes in Physical Properties of Cold-
Drawn Brass During Annealing, by G. I. Epifanov,

, RUSSIAN, per, Zhur Tekh Fiz, Vol XVI, No 12,
1946, pp 1475-1482.

23,166

Butcher Tr No 3404
\$6.90

Scientific - Min/Metals

Apr
May 55 CTS

The Theory of Detonation in Gases, by Ya. B. Zeldovich,
24 pp.

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, No 1, 1947,
pp 3-26.

TIL/T5144

Sci - Fuels

217,627

Nov 62

7 120 NLR 11/11

Renne, V. T.
RATE OF SELF-DISCHARGE AS A CRITERION FOR
ESTIMATING THE VALUE OF A PAPER CONDENSER
WITH D. C. POTENTIAL. 3 Nov 47, 5p. (figs. refs.
omitted).
Order from OTS or SLA \$1.10 62-20345

Trans. of [Zhurnal Tekhnicheskoi Fiziki] (USSR) 1947,
v. 17, no. 1, p. 37-42.

DESCRIPTORS: *Paper capacitors, Direct current,
Measurement, Dielectrics, *Electric potential, Electrical
conductance, Ionization, Electric discharges.

Investigation was made of the phenomenon of self-dis-
charge of paper condensers as well as a suggestion to
apply the rate of self-discharge as a criterion for the
evaluation of the quality of these condensers when
(Physics--Electricity, TT, v. 9, no. 10)

62-20345

I. Renne, V. T.

Office of Technical Services

ZHURN TEKHNICHESKIH Vol XVII, No 1

Jan 1947

4 pp

"On the Mechanism of the Electrification of Certain
Artificial Aerosols (Smoke)"

A. M. Furman

Avail at Brookhaven
See Guide to Russ Sci Per Lit,
Vol 1, No 7, page 51

2T42

✓
The Phenomena of Accommodation of Magnetic
Permeability of Magnetite, by A. M. Vyukhina, et
al, 26 pp.

RUSSIAN, no per, Zhur Tekh Fiz, Vol XVII, No 2,
1947, pp 129-142.

Sci Tr Center RT-2889

Scientific - Physics
Jan 56 CTS/dex

32, 214

The Synchronization of a Tube Oscillator by
a Harmonic of the Fundamental Frequency,
by O. A. Tkhorzhevski, B. K. Shembel'

RUSSIAN, per, Zhur Tekh Fiz, Vol XVII, 1947,
pp 215-230.

AEC Tr 1118

Scientific - Physics

ZHUR TEKH FIZ Vol XVII, No 2

Feb 1947

4 pp

"The Condition of Self-Excitation of Tube Oscillators
with Coupling and the Frequency of Oscillations
Generated in Them, with an Account of Inertial Pro-
cesses in Tubes"

E. S. Antselevich

Proj 1596

D-3-50

F 2 4130-49

Abstr of Tech Intell Doc (Navy)

CIA 314572

NA London Ser 1196-49 by Min of Supply

ID 555753

P 20972T

29 Apr 1949

11T20

ZACOROSKIKH, D. M.

Zhurnal Tekhnicheskoi Fiziki, vol. 17, No. 3, 6
figures, 900 words; 1947.

Ductile; Brittle, and "Border" Cracks in Impact
Test Pieces.

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