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Reel #95

Thickness of Emulsion Crystals and the Resolving
Power of Photographic Emulsions, by I. R. Protas,
P. Kh. Pruss, Yu. A. Krakau, 8 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXII, No 9, 1949,
pp 973-982.

CIA/FDD/X-1271 10,810

A Study of the Processes Which Take Place in
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ACSI J-1176
ID 2204054866

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Mar 67

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Adsorption Method for the Separation of Anabasine,
by M. S. Rabinovich, R. A. Kononova.

RUSSIAN, no per, Zhur Prikl Khim, Vol XXII, No 9,
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Assoc Tech Sv RJ-6

Sci - Chemistry \$8.50 (\$1.75)

Aug 54

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Wintering of **NIEX** Salts and Oxides, by A. Ya. Evorykin,
N. I. Tipokhina, 5 pp. UNCLASSIFIED

Full translation.

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pp 1063-1067.

Navy Tr 692/BRL 399

USSR

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Jun 52 CTB

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In June 1952 KT 76

Relative Rate of Motion of Droplets, by N. I. Smirnov,
M. L. Ruban.

Full translation.

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The Potential Balance of an Electrolyser, by
V. P. Mashovets, G. V. Forsblom, 5 pp.

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USSR, 1949, pp 1083-1086.

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Scientific - ~~Electronics~~, Electrolyser, ~~POTENTIAL~~
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Oct 52 CTS/DEX

Ascorbic Acid. Lactonization and Enolization of
2-Keto-L-Gulonic Acid and Its Derivatives, by V. N.
Korotkiy, L. I. Strel'chukova.

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pp 1112-1115,

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Catalytic Effect of Rocks on the Change in
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ATS RJ-1835

Sci - Geophys
Jan 60

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Sci Chem 11/3/5/343 8470

Scientific - Chemistry Dec 53 CTS/DEK

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R-2996. Escape of air bubbles into a liquid medium.
Zhur. Priklad Khim., 22, p.1208-10, 1950. (4p.)

The Dependence of the Velocity of Drops on the
Velocity of the Medium, by N. I. Smirnov, V. L.
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The Mechanism of Mist Formation in the Manufacture
of Sulfuric Acid Employing Nitrous Vitriol, by
A. G. Amelin, A. I. Baranova,

RUSSIAN, per, Zhur Prik Khim, ~~XXXXXXXXXX~~ Vol XXII,
No 12, 1949, pp XX 1225-1230.

Assoc Tech Sv RJ-420

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Sci - Chemistry

Aug 1956

Zhur Prik Khim, 22, 1279-83, (1949)

"Modifications of Vrevskiy's Calorimeter"

Yu. Ya. Kagarovich (All-Union Scientific Research
Institute of Halurgy, Leningrad)

(Wilson Dam 2895)

5 LA R-3026

Investigation of Phase Equilibria of the Ternary
System Phenanthrene-Acenaphthene-Naphthalene, by
Yu. F. Kelochko-Zhovnir, 8 pp.

RUSSIAN, per, Zhur Prik Khim, Vol 22, ^{No}(12), 1949,
pp 1292-1297.

~~Sci Museum Lib~~
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The Composition of "Harmful" Pitch in the
Manufacture of Paper, by S. S. Malevskaya,
S. O. Kharad.

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No 12, 1949, pp 1310-1320.

Nat Res Lib TT.555
Ottawa, Canada

Sci - Chemistry

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NLL RTS 3649

Sci-Physics
Nov 67

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TELESNIN, R. V.

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entitled "Magnetization of permalloy in a longitudinal
constant magnetic field (letter to the editor.) Zhur.
tekh. Fiz., 19, no.12, p.1445-1447, 1949. (3p.)

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(Journal of Applied Chemistry -
24 issues/year)
Translation begins with 1950, Vol. 23
Lag time: ca. 10 months
Order from: Plenum Publishing Corporation
227 West 17th Street
New York, N.Y. 10011
1971: \$ 250.00/year
\$ 30.00 single issues
\$ 15.00 single article
add \$ 5.00

Papko, S. L.
THE ACTION OF HOMOGENEOUS CATALYSTS.
[1964] 21p (figs omitted) 1ref
Order from OTS, SLA, or ETC \$2.60 TT-64-10755

Trans. of #Zhurnal Prikladnoi Khimii (USSR) 1950,
v. 23, no. 1, p. 8-20.
Another trans. is available from SLA as R-03046, 14p.

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-10755

I. Papko, S. L.
II. SLA-R-3046

Office of Technical Services

Markacheva, T. M. and Lebedeva, G. N.
HET BEREIDEN VAN NICOTINEZUUR UIT DE ZWARE
BASEN VAN STEENKOLENTEER (Preparation of
Nicotinic Acid from the Heavy Bases of Coal Tar):
12p. 1 ref. MTWL: 352. (Text in Dutch).
Order from OTS or ETC \$1.85 61-17562

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1950,
v. 23, no. 3, p. 299-305.

DESCRIPTORS: *Coal Tar, *Nicotinic Acid, Prepara-
tion, Pyridine derivatives.

61-17562

I. Markacheva, T. M.
II. Lebedeva, G. N.
III. MTWL-352
IV. Stichting Moeilijk
Toegankelijke Wetenschap-
pelijke Literatuur

Office of Technical Services

Oreshko, V. F.
DE OXYDATIE VAN STEENKOOL ONDER NIET-
ISOTHERME OMSTANDIGHEDEN (Oxidation of coal in
non isotherm circumstances). tr. by G. J. M. Fritschy.
15 p. 11 refs. MTWL:471. (Text in Dutch)
Order from OTS or ETC \$0.80 61-17019

Trans. of Zhurnal Prikladnoy Khimii (USSR) 1950,
v. 23, p. 306-316.

61-17019

- I. Coal combustion
- I. Oreshko, V. F.
- II. MTWL-471
- III. Stichting Moerlijk Toegankelijke Wetenschappelijke Literatuur

Office of Technical Services

b
Physicochemical Investigations of Magnesium Phosphates
(System $MgO-P_2O_5-H_2O$ at 25° and 80° C), by A. P.
Belopol'skiy, S. Y. Shpunt, M. N. Shul'gina, 17 pp.

RUSSIAN, per, Zhur Prik Kaim, Vol XXIII, # 1950,
pp 823-836.

SLA R-3039

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Jul 59

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DE KWANTITATIEVE BEPALING VAN KETONEN
DOOR OXIMVORMING (Determination of ketones by
an oximation method). 13 p. 9 refs. MTWL: 442
(Text in Dutch).
Order from OTS or ETC \$1.85 61-17047

Trans. of Zhurnal Prikladnoi Khimii (USSR), 1950,
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DESCRIPTORS: *Ketones, *Oximes, Determination.

61-17047

- I. Novikova, E.N.
- II. Petrova, L.N.
- III. MTWL-442
- IV. Stichting Moelijk
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pelijke Literatuur.

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Smirnov, N.I. and Ruban V.L.
RELATIEVE TRANSPORTSNELHEID VAN DRUPPELS
IN HET OVERGANGSGEBIED (Relative velocities of
motion of drops in the field of transition). 9 p. 4 refs.
MTWL: 465 (Text in Dutch).
Order from OTS or ETC \$1.55

61-17030

Transl. of Zhurnal Prikladnoi Khimii (USSR) 1951,
v. 24, no. 1, p. 47-55.

DESCRIP:ORS: *Drops, *Velocity, Reynolds number.

pp. 45-101 - SLA 61-13426

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pp 28-31 ATS -10Q 13R (5pp)
consultants Bureau

pp 56-60 NLL M.4540

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- I. Smirnov, N.I.
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- III. MTWL-465
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Smirnov, N.I. and Li De Ep.
STROMING DOOR EEN LAAG VASTE DEELTJES.
(Fluid flowthrough a layer of solid particles). 11 p.
9 refs. MTWL: 464 (Text in Dutch).
Order from OTS or ETC \$1.85 61-17029

Trans. of Zhurnal Prikladnof Khimii (USSR) 1951,
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DESCRIPTORS: *Boundary layer, *Particles, *Fluid
flow, *Gas flow.

61-17029

- I. Smirnov, N.I.
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- IV. Stichting Moellijk
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Order from OTS or ETC \$0.80

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- I. Hydrodynamics
- I. Smirnov, N.I.
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- IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Kishinevskif, M. Kh. and Kerdivarenko, M. A.
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VAT MET PROPELLERROERDER BIJ HOOG TOEREN-
TAL (The kinetics of the absorption of carbon
dioxide by solutions of sodium hydroxide in a high-
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(Text in Dutch).
Order from OTS or ETC \$1.85

61-17027

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1951,
v. 24, no. 4, p. 413-420.

DESCRIPTORS: *Carbon dioxide, *Sodium compounds,
*Hydroxides. Adsorption, Stirrers, Chemical reac-
tions, Velocity.

61-17027

- I. Kishinevskif, M. Kh.
- II. Kerdivarenko, M. A.
- III. MTWL-462
- IV. Stichting Moeilijk
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Plachenov, T. G. and Kuzin, I. A.
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TECHNICAL XYLENE BY AN ADSORPTIVE
METHOD. [1960] [22]p. 13 refs. [DSIR LLU] M2065.
Order from OTS or SLA \$2.60 61 13422

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1951,
v. 24, no. 4, p. 421-432 and 1952, v. 25, no. 2,
p. 224-228.

DESCRIPTORS: Separation, *Xylenes, Fractionation,
Adsorption, Isomeric transitions, Coal tar, Chemical
reactants, Monocyclic compounds, Toluenes, Carbon,
Towers (Chemistry), Benzenes.

Studies of the adsorption properties of carbon, silica
gel and ferro-gel with respect to the vapours of xylene
isomers and ethylbenzene, together with an investiga-
(Chemistry--Physical, TT, v. 6, no. 12) (over)

61-13422

- I. Title: Xylene
- I. Plachenov, T. G.
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MTWL:495. (Text in Dutch)
Order from OTS or ETC \$0.80

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- I. Turbulent flow
- I. Smirnov, N.I.
- II. Li De Ep
- III. MTWL-495
- IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Measuring the Specific Surface of Highly Dispersed
Materials by the Method for Torsion Balances, by
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SLA R-2563

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The Conditions of Cross-Linking of Polymers, by
A. Y. Brinberg.

RUSSIAN, per, Zhur Prikl Khim ⁶USSR, Vol XXIV, No 10,
1951, pp 1078-1083.

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Synthesis of Calcium Fluoride and Hydro-
Fluoric Acid From Fluosilicic Acid, by S. I.
Volikovich, M. G. Gabrielova,
RUSSIAN, per, Zhur Prikladnoi Khimii,
Vol XXV, 1952, pp 345-349.
SLA TT 64-20350

May 67 325,027

Hydrogen Sulfide Absorption Rate in Aqueous
Solutions of Sodium or Potassium Carbonate,
by M. S. Litvinenko,

RUSSIAN, per, Zhur Priklad Khim, Vol XXV,
No 7, 1952, pp 696-717.

ATS RJ-2216
ATS-48L36R

Sci - Chem

May 60

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Equilibrium Constant of the Reaction $Al(OH)_3 + OH^- \rightleftharpoons$

$Al(OH)_4^-$, by S.I.Kuznetsov,

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PO Box 271

East Orange, NJ

Scientific - Chemistry

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Connection Between the Thermal Diffusion Process
for Coating Metals and the Formation of Intermetallic
Compounds and Solid Solutions at Their Surface, by
M. I. Parfenova, N. A. Izgaruishev, 5 pp.

RUSSIAN, no per, Zhur Prik Khim, Vol XXV, No 7,
1952, pp 752-756.

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Scientific - Minerals/Metals

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Feb 54 CTS

Binary Systems of Flourene, by V. M. Kravchenko,
11pp.

RUSSIAN, per, Zhurnal Prikladnoi Khimii,
Vol 25, 1952, pp 943-954.
CFSTI TT-64-18167.

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... Pinning Problems, by G. I. Chufarov et al.
UNCLASSIFIED.

MOSKOW, per, Zhur Prik Khim, Vol XIV, 1953,
652-655.

CTA D-167685

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Index to the Journal of Applied Chemistry of the
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The Transition of Calcium Sulfate
Hydrates, by I. I. Korol'kov, A. V.
Krupneva.
RUSSIAN, per, Zhurnal Prikladnoi Khimii,
Vol 26, No 9, 1953, pp. 907-11.
NTC 69-11744-07B

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July 69

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Study of the Equilibria of Distribution of
Picric Acid Between Water and Nitrobenzene (I),
by S. V. Gorbachev, E. Ya. Mindovich, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII,
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Sci - Phys
May 61

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FILE 11.3051

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pp 18-20. 9099909

AEC Tr-5036

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Denisov, Yu. N. and Troshin, Ya. K.
MECHANISM OF DETONATION COMBUSTION
(Mekhanizm Detonatsionnogo Sgoraniya). [1962] [56]p.
(foreign text included) 21 refs.
Order from OTS or SLA \$5.60

62-14552

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1960, no. 1, p. 21-35.

DESCRIPTORS: *Combustion, Detonation, *Detonation waves, Propagation, Shock waves, Photographic analysis, Thermodynamics, Gases, Dynamics.

Proceeding from data obtained by the trace method and the method of photo-evolution on the periodic structure of detonation waves, we construct and compute a thermo-gas-dynamic model of detonation. In doing so, we attempt to clarify the elements of the detonation mechanism. (Author)
(Chemistry--Physical, TT, v. 8, no. 7)

62-14552

I. Denisov, Yu. N.
II. Troshin, Ya. K.

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Speed of Sound Along the Vapor Phase Equilibrium Curve. Speed of Sound in Saturated Water Vapor, by V. I. Avdonin, L. I. Novikov. RUSSIAN, per, Prikladnoy Mekh i Tekhn Fiziki, No 1, 1960, pp 58-62.
NASA TT F-10,977

Sci-Phys
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Lozovskaya, V. F., Pashkov, P. O., and
 Serebryakov, A. V.
 CONCERNING THE SPEED OF GROWTH OF CRACKS
 DURING THE PLASTIC FAILURE OF METALS
 (O Skorosti Rosta Treshchin pri Plasticheskom
 Razrushenii Metallov). [1962] [28]p. (foreign text in-
 cluded) 6 refs.
 Order from OTS or SLA \$2.60

62-18101

Trans. of [Zhurnal] P[riladnoi] M[ekhaniki i]
 T[ekhnicheskoi] F[iziki] (USSR) 1960, no. 1, p. 103-109

DESCRIPTORS: *Metals, *Fracture (Mechanics), Plas-
 ticity, Creep, Deformation, *Failure (Mechanics),
 Temperature.

(Metallurgy, TT, v. 9, no. 3)

62-18101

- I. Lozovskaya, V. F.
- II. Pashkov, P. O.
- III. Serebryakov, A. V.

Office of Technical Services

Radiation in a Detonation, by I. M. Voskoboynikov,
2 pp.

RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i
Tekhnicheskoi Fiziki, No 1, pp 133, 134, 1960.

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Vol 32, No 5

Sci - *mcc/phys*

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Flow of a Highly Heat-Conductive Gas in the
Neighborhood of the Critical Point of a
Blunt Body, by A. M. Klimov, 6 pp.

RUSSIAN, per, Prikl Mekh i Tekh Fiz, Vol I, No 1,
1960, pp 138-141.

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Calculation of Parameters of a
Detonation Wave of Condensed
Explosives, by A. Ya. Apin, 5 pp.
RUSSIAN, per, Zhur Prikladnoy
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pp 54-55. 9700571
Dept of Navy Tr 4647/ONI Tr 2083

Sci-Phys
May 66

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The Velocity of Sound Along the Vapor-Liquid
Phase Equilibrium Curve. The Velocity of
Sound Propagation in Saturated Carbon Dioxide
Vapors, by I. I. Novikov, Yu. S. Trelin.
RUSSIAN, per, Zhurnal Prikladnoy Mekhanika
i Tekhnicheskoy, Fizika, No 2, 1960,
pp 112-113.
NASA TT F-11,087

Sci-Phys
Sept 67

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Determination of the Relative Effect
of High Explosives by the Method
of Equivalent Charges Based on the
Magnitude of Expansion in a Trauzl
Bomb, by A. F. Belyayev, 13 pp.
RUSSIAN, per, Zhur Priladnoy Mekhaniki
i Tekhnicheskoy Fiziki, No 2, 1960,
pp 116-119. 9700563
Dept of Navy Tr 4649/ONI Tr 2082

Sci-Phys
May 66

300,728

Zaonegin, V. L., Kozachenko, L. S., and
Kostyuchenko, V. N.

AN EXPERIMENTAL STUDY OF THE FORMATION
OF A GASEOUS BUBBLE AND SPOUT IN AN
UNDERWATER EXPLOSION (Eksperimental'noe
issledovanie formirovaniya Gazovogo Puzryrya i Sultana
pri Podvodnom Vzryve). [1962] [15]. (Foreign text
including 2 refs.)
Order from DTIC or SLA \$1.60

62-14010

Transl. of Journal Prikladnoi Mekhaniki i Tekhnicheskoi
Fiziki (USSR) 1962, no. 2, p. 120-124.

DESCRIPTORS: *Underwater explosions, *Explosion
bubbles, Gases, Hydraulic models, Mathematical
analysis.

This paper presents some results of an experimental
study of the simultaneous development of a spout and
(Mechanics--Hydrodynamics, TT, v. 8, no. 10)
(over)

62-14010

I. Zaonegin, V. L.
II. Kozachenko, L. S.
III. Kostyuchenko, V. N.

Office of Technical Services

Lamper, R. E.

ON THE APPLICATION OF SOME AERODYNAMIC THEORIES TO THE CALCULATION OF FLUTTER OF A PANEL. [1962] [9]p. 2 refs.
Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R41. When supply is exhausted, order from OTS or SLA \$1. 10, 62-18852

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1960, no. 2, p. 147-149.

DESCRIPTORS: *Aerodynamic configurations, *Panels (Structural), Aerodynamics, *Flutter, Equations of motion, Fourier analysis, Series, Aeroelasticity.

In a linear formulation a three-dimensional non-steady linearized theory may be used to determine the aerodynamic forces arising on a panel during flutter, however, its practical use in the majority of cases is associated (Mechanics--Aerodynamics, TT, v. 9, no. 4) (over)

62-18852

- I. Lamper, R. E.
- II. Boeing Trans-R41
- III. Boeing Scientific Research Labs., Seattle, Wash.

Office of Technical Services

Vypov, G. P.
-SOLUTION OF NON-LINEAR EQUATIONS FOR THE
MOVEMENT OF VISCOUS INCOMPRESSIBLE LIQUID
IN THE SPACE BETWEEN TWO CLOSELY SITUATED
SURFACES. [1962] 11p. (figs. formulae omitted)
2 refs.

Order from OTS or SLA \$1.60

62-18802

Trans. of Zhurnal Prikladnoi Mekhaniki i
Tekhnicheskoi Fiziki (USSR) 1960, v. 1 [no. 3]
p. 75-82.

DESCRIPTORS: *Fluid flow, Viscosity, Liquids, Fluid
mechanics, *Equations of motion, *Nonlinear dif-
ferential equations, Numerical analysis.

(Mechanics, TT, v. 9, no. 9)

62-18802

I. Vypov, G. P.

Office of Technical Services

R-5768-D
3 Sept 65

One Method for Solving Laminar Boundary Layer Equations

By: A. A. Dorodnitsin

From: ZH PRIK MEKH I TEKH FIZ No 3, 1960 pp111-118

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