

63-10736

Stromberg, A. G.
INFLUENCE OF: ELECTROLYSIS TIME, OF THE
VOLUME OF THE SOLUTION, AND OF THE
RADIUS OF THE MERCURY DROP ON THE HEIGHT
OF THE ANODIC PEAK IN AMALGAM POLAROG-
RAPHY. [1962] 8p. 12 refs.
Order from OTS or SLA \$1.10

63-10736

Trans. of Akademiya Nauk SSSR, Sibirskoe
Odelenie, Izvestiya, 1962, no. 5, p. 76-80.

DESCRIPTORS: *Polarographic analysis, *Electrolysis,
Volume, Solutions, *Mercury, Time, Anodes (Elec-
trolytic cell), Ions, Quantitative analysis.

The aim of the present investigation is a quantitative
interpretation of the experimental facts related to the
influence of the electrolysis time (t), the volume of the
solution (V_1), and the radius of the mercury drop (r) on
(Chemistry--Analytical, TT, v. 9, no. 12) (over)

1. Stromberg, A. G.

Office of Technical Services

Bobikov, P. I. and Gindin, L. M. INDUSTRIAL SEPARATION OF METALS IN COLUMNS BY EXCHANGE EXTRACTION. Jan 63 [6]p. 7 refs. Order from ICE in v. 3, no. 1, \$15.00/year Trans. of Akademiya Nauk SSSR. Sibirskoe Otdelenie. Izvestiya, 1962, no. 6, p. 46ff. DESCRIPTORS: *Metals, Separation, *Towers (Chemistry) Exchange reactions, Fatty acids, Carboxylic acids, Soaps, Hydrochloric acid, *Nickel, *Cobalt, Sodium compounds, Chlorides, Chemical engineering. (Engineering--Chemical, TT, v. 9, no. 6)	63-12692 I. Bobikov, P. I. II. Gindin, L. M. III. International Chemical Engineering, New York Office of Technical Services
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Temperature Dependence of Magnetostriction and
Coefficient of Linear Expansion of Elinvar, by
A. Ya. Vlasov, B. A. Ayurzanayn, 7 pp.

^{Siber}
RUSSIAN, per, Iz ~~Aibir~~ Otdel Ak Nauk SSSR,
No 6, 1962, pp 99-102, 9680345

FTD-TT-63-7

Sci.-Phys
Apr 63

227,054

Bandman, O. L.
CONDITIONS FOR THE PHYSICAL PRACTICABILITY
OF ADMITTANCE MATRICES OF RC NETWORKS
(Priznaki Fizicheskoi Osushchestvivosti Matrits
Provodimosti Yas-Tsepei). [1963] [34p] (foreign text
included) 7 refs
Order from OTS or SLA \$3.60 63-18702

Trans. of Akademiya Nauk SSSR. Sibirskoe Otdelenie.
Izvestiya, 1962, no. 8, p. 27-39

DESCRIPTORS: *Electrical networks, Synthesis,
*Matrix algebra, *Transformations (Mathematics),
*Admittance, Circuits, Electrical impedance.

Topics include: coordinate transformation matrix;
coupling (cut-set) matrices; necessary conditions for
the physical realizability of admittance matrices;
sufficient conditions for the physical practicability of
admittance matrices; conditions of physical realiz-
(Engineering--Electrical, TT, v. 10, no. 11) (over)

63-18702

I. Bandman, O. L.

Office of Technical Services

EXPERIMENTAL PHYSIOLOGICAL AND HISTOCHEMICAL
STUDY OF THE ADAPTATION OF INTESTINAL TRANS-
PLANTS INCORPORATED IN THE URINARY SYSTEM,
BY S. Z. FRADKIN, 20 PP.

RUSSIAN, PER, IZVESTIYA SIBIRSKOGO OTDELENIYA
AKADEMI NAUK SSSR, NO 8, 1962, PP 103-109.

JPRS 17349

SCI - MED

JAN 63

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The Charge on Atoms in Ferrocene and its
Analog, by S. S. Batsanov. 7 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye
Otdeleniye, No 8, 1962, pp 110-113.
AIR/FID/IR-23-248-68

Sci/Physics
Feb 69

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00-17520
Borshechvskii, Yu. T.
VELOCITY PULSATIONS IN TWO-PHASE STREAMS.
Apr 68, 5p. 6 refs.
Order from ICE in v. 3, no. 2, \$15.00/year

Trans. of Akademii Nauk SSSR, Sibirskoe
Otdeleniye, 1962, no. 9, p. 137.

DESCRIPTORS: Chemical engineering, Velocity, *Fluid
flow, *Phase studies, Mass transfer, Turbulence,
Diffusion.

(Mechanics--Hydrodynamics, TT, v. 10, no. 3)

1. Title: Velocity pulsations
I. Borshechvskii, Yu. T.
II. International Chemical
Engineering, New York

Office of Technical Services

POWERFUL AC ELECTRIC POWER TRANSMISSION LINES
FRO DISTANCES OF 1,500-3,000 KM, BY
V. K. SHCHERBAKOV, 14 PP.

RUSSIAN, PER, IZ SIBIRSKOGO OTDELENIYA AK
NAUK SSSR, NO 10, 1962, PP 51-59.

JPRS 17873

SCI - ELECTRICITY

MAR 63

224,137

RADIATION AS ONE OF THE POSSIBLE CAUSES OF
CARCINOGENESIS, BY YU. YA. KERRIS, 23 PP.

RUSSIAN, PER, IZ SIBIR OTDEL AK NAUK SSSR,
NO 10, 1962, PP 125-138.

JPRS 19131

SCI-BIOL & MED SCI
MAY 63

229,929

Popova, N. I. and Mil'man, F. A.
KINETICS OF THE OXIDATION OF ISOBUTYLENE
OVER COPPER CATALYSTS. [1963] [13]p. 11 refs.
Order from CTS(Chem) \$4.00 CTS(Chem)-337
subsequent copies \$0.75/ea.

Trans. of Akademiya Nauk SSSR, Sibirskoe
Otdelenie. Izvestiya 1962, no. 11, p. 59-65.

DESCRIPTORS: *Butenes, Oxidation, Reaction kinetics,
*Copper catalysts, Methyl radicals, *Acroleins,
Synthesis (Chemistry), Carbon dioxide.

(Chemistry--Physical, TT, v. 10, no. 8)

63-17991

1. Title: Methacrolein
2. Title: 2-Methyl propene
- I. Popova, N. I.
- II. Mil'man, F. A.
- III. CTS(Chem)-337
- IV. Chemical Translating
Service, Palo Alto,
Calif.

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Relationship Between Chemical Composition and
Physiological Effect of Bile Agents by
A. S. Saratikov.
RUSSIAN, per, Iz Ak Nauk SSSR Sibirskoe
Otdelenie, No 11, 1962, pp 95-108.
OTS TT-64-18979

Sept 66

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ANATOLIY VASIL'YEVICH NIKOLAYEV (60TH BIRTHDAY),
6 PP.

RUSSIAN, PER, IZVEST SIBIRSKOGO OTDEL AKAD
NAUK SSSR, NO 11, 1962, PP 157-159.

JPRS 20435

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AUG 63

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On the Mechanism of the Process of Magnetically
Treating Water, by A. N. Kirgintsev, V. M. Sokolov,
11 pp.

RUSSIAN, par, In Sibir Otd Ak Nauk SSSR, No 1, 1963,
pp 27-31, 9689306

FTD-TT-63-964

Sci - Physics
Dec 63

243,540

IMPROVING THE USE OF LABOR RESOURCES OF THE
KRASNOYARSKIY KRAY, BY D. M. ZAKHARINA, 10 PP.

RUSSIAN, PER, IZ SIBIRSKOGO OTDEL AKADEMII NAUK
SSSR, NO 1, 1963, PP 47-54.

JPRS 19790

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JUN 63

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Power Transmission Over Distances of 1500 to
3000 KM.

RUSSIAN, per, Akademiya Nauk SSSR, Sibirskoe
Otdelenie, No 16, 1963.

CFSTI TT 68-50379

Sci/Mech, Ind, Civ & Mar Engr
Nov 68

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Nitrates of the Ce-group of Rare Earth Metals
Communication: Optical Properties of 6- and
4-Hydrate Nitrates, by K. E. Mironov and
A. P. Popov, et al,
RUSSIAN, per, Izvestiya Sibirsk Otd. Akad.
Nauk SSSR, No 2, 1964, pp 48-57. P91109766
AEC ANI-tr-338

Sci-Chem
Nov 66

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Processing Information in Automata for Sorting
Radio Components, by F. B. Grinevich and
T. N. Mantush. S-1926

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No, 10, 1964, pp 3-8.

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Synthesis of Optimum High Speeds Based on
the Achievement of a Switching Line, by
T. N. Mantush. S-1926

RUSSIAN, per, Izvestiya Sibirskogo Otdeleniya
Akademii Nauk SSSR, No 10, 1964, pp 18-26.

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On the Determining the Optimum High Speed
of a Regulator, by A. S. Anisimov and
A. I. Vasil'yev.

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A Catalytic Process as an Object of a
Self Adjusting System, by A. S. Anisimov
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On the Possibility of Decreasing the Number
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Whole Systems of Algebraic Logic Elements,
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The Problem of Vyshnegradskiy in the Theory
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the Effect of Delay and the Influence of
the Derivative, by P. V. Sergeyev. S-1926
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Akademii Nauk SSSR, No 10, 1964, pp 103-109.
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Jun 65

On an Estimate of the Chromatic Class of a p-graph,
by V. G. Vizing
RUSSIAN, per, Diskretnyy Analiz: Sbornik Trudov,
Akad Nauk SSSR, Sib Otd, Inst Matematiki, No 3, 1964,
pp 25-30.
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Oct 72

Limitation of Overvoltages in Tuned Electrical
Transmission Lines with Single-Phase Short-
Circuits, by O. V. Olshevskii
RUSSIAN, per, Akademiya Nauk SSSR. Sibirskoe
Otdelenie. Izvestiya. Seriya Tekhnicheskikh
Nauk, No 6, 1964, pp 9-15
NTC 71-15140-09C

mar 72

The Nature of the Secondary Emission Occuring on
the Bombardment With Alkali-Metal Ions of Films
of Alkali Elements on Metals, by U. A. Arifov,
A. Kh. Ayukhanov, 10 pp.

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Fiz-Matemat, No 6, 1961, pp 34-39. 9678079

FTD-TT-62-921

Sci - Engr
Sep 62

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Definition of Certain Parameters of
Semiconductor Materials With Help of
Irradiated of p-n Junctions by
Electrons, by A. Shalpykov, Ye. M. Lobanov,
5 pp.

RUSSIAN, per, Iz Ak Nauk UzSSR, Ser
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FTD-TT-64-1159

Sci - Elec
Aug 65

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Ion & Scattering by the Surface of a Metal ,
by U. A. Arifov, et al, 9 pp.

RUSSIAN, per, Iz Ak & Nauk Uzbekskoy SSR,
~~Ser Fiz-Matemat~~, No 6, 1961, pp 50-56.
9678079

FTD-TT-62-921

Sci - Chem
Sep 62

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On Angular Distribution of Ions of Alkali Elements,
Diffused by the Surface of Metal, by U. A. Arifov,
A. Kh. Ayukhanov, A. A. Aliyev, 13 pp.

RUSSIAN, per, Is Ak Nank Uz-SSR, Seriya Fiziko
Matematicheskikh Nank, No 6, 1961, pp 57-64.
9681618

FTD-TT-62-1719

Sci-Chem
May 63

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Some Models of Radiation Damage in Non-Conducting
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RUSSIAN, per, Izvestiya AN UZSSR. Seriya Fiziko-
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*FTD-HT-23-222-68

Sci/Phys
Mar 68

Investigation of the Secondary Ion Emission During
the Bombardment of Metals by Low-Energy Ions,
by D. D. Gruich, N. Rakhimbayeva, 15 pp.
RUSSIAN, per, Iz Ak Nauk Uzbek SSR, Seriya Fiz-
Mate Nauk, No 1, 1964, pp 53-60. 9693309
FTD-TT-64-544

Sci - M/M
Aug 64

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Inelastic Phenomena in Amorphous Selenium,
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Sci-Phys
Jul 67

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Measurement of the Total Neutron Cross Sections
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7 pp.

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P100073568-V

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Sci/Phys

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Electrostatic Emission of Electrons From Silicon,
by G. D. Protopopov,
RUSSIAN, per, Iz Ak Nauk Uralsk SSR, Seriya Fiz
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Aug 68

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Filters, by V. B. Klenov.
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Using High-Speed Electronic Calculating Machines
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JPRS 12185

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M. V. Lavrov and G. V. Grebenshchikova,
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BLL 9022.4 (66/74)

Sci-Phys
Apr 67

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10 pp.

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Sci/engr
Jun 67

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ON THE Solution of the Plane Contact
Problem in Creep Theory in the Presence
of Frictional Forces, by T. Shirinkulov.
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NLL RTS 3119

Sci-Engr
June 66

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On Certain Regularities on the Plant
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D. I. Mendeleev Periodic System, by
A. I. Kovalevskiy.

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No 4, 1963, pp 53-61. 9232408
AEC BNL-Tr-58

Sci/BQM
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JPRS 22527

SCI-MED
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THE CONDITION OF THE PHYTOBENTHOS OF THE NOVOSIBIRSK
XX RESERVOIR WITH A NORMAL HEAD, BY G. D. LEVADNAYA,
8 PP.

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JPRS 22527

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JAN 64

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S-1040/63

Action of Desoxyribonuclease on Reproduction of
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A. A. Trukhachev. (NY-7901)

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Sci - Biol & Med Sci
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CLINICAL TESTING OF DEOXYRIBONUCLEASE IN ADENOVIRAL
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CPSTI TT 67-51234

Sci-EAM
Apr 67

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S-932/64

The Action of Ultrasound in Yeast Ribonucleic Acid
Solutions Irradiated With and Without Cavitation
in the Medium, by M. S. Levinson, V. P. Nefedov.
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Sci - B & M Sci
Sep 64

Solubility of Uranium Peroxide, by A. V. Kolayev,
S. A. Dnnasova.
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Khim Nauk, No 3, 1963, pp 9-13.
AEC LA-tr-68-4

Sci-Chem
Jul 68

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Addition of Hydride-Silanes to Vinyl Esters,
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Processes of Mixtures Containing Alumina,
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NLL 9622.09 (4132)

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Fusibility Diagram of the ScF_3 - NaF System,
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1964, pp 104-107.
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Sci/Chemistry
May 66

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Sesquiterpene Hydrocarbons of the Resin of
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Sci/Phys
Jan 69

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New Form for Coordinating Scientific Research
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Sci - Misc

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ACSI I-8573
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USSR-Geog
Jun 66

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VOL 1, 1963

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TEKHNICHESKAYA KIBERNETIKA
(Engineering Cybernetics - bimonthly)
Translation begins with 1963, Vol. 1
Lag time: 5 months
Order from: Scripta Publishing Corporation
1511 K Street, N.W.
Washington, D.C. 20005
1970/71: \$ 125.00/year USA and Canada
\$ 127.00/year elsewhere
Prices of back volumes available on request
(Prepayment required - surface mail postage
is included)

Russ
old

1500111111
The Interaction of a Revolving Circular Cascade of Blades and Guide Blades Streamlined by Nonviscous Liquid, by Yu. T. Borshchevskiy, 16 pp.
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FTD-MT-67-46

Sci-Prop & Fuels
May 68

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CR-107/64

An Innovator of Mining Science, by P. T. Prikhod'ko,
V. N. Leont'yev. (DC-10807)

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Sept 64

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Sept 64

Determination of Effective Charges of Iron Atoms
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Absorption, by Yu. F. Kopelov, E. Ye. Vaynshteyn.
11 pp.

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Sci.-Phys
Jul 68

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Small Natural Oscillations of Triple-Layer
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PI00063966
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Sci - Elec & Elect Engr
Nov 66

312,914

Processing Information in Autodata for
Sorting Radio Components, by F. B. Grinevich,
T. M. Mantush, 9 pp.
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Jul 65

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Synthesis of Optimal Responses Based on
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USSR
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Jul 65

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