

UNCLASSIFIED

| |
|--|
| |
| |
| |
| AD NUMBER |
| AD433215 |
| NEW LIMITATION CHANGE |
| TO Approved for public release, distribution unlimited |
| FROM Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Feb 1964. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505. |
| AUTHORITY |
| CIA ltr, 7 Sep 2004 |

THIS PAGE IS UNCLASSIFIED

NOTICE: When government or other drawings, specifications or other data are used for any purpose other than in connection with a definitely related government procurement operation, the U. S. Government thereby incurs no responsibility, nor any obligation whatsoever; and the fact that the Government may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation, or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

CATALOGED BY DDC

433215

AS AD No.

FOR OFFICIAL USE ONLY

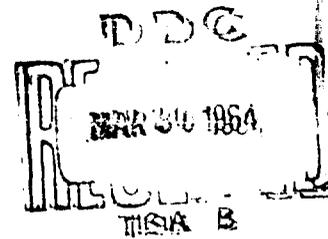


CONSOLIDATED TRANSLATION SURVEY

Number 74

For February 1964

433215



Prepared by

Foreign Documents Division
CENTRAL INTELLIGENCE AGENCY
2430 E St., N. W., Washington 25, D. C.

FOR OFFICIAL USE ONLY

NO. 74

CONSOLIDATED TRANSLATION SURVEY

FOR FEBRUARY 1964

| <u>TABLE OF CONTENTS</u> | <u>Page</u> |
|-----------------------------|-------------|
| Notes concerning the survey | c |
| Requests for copies | d |
| USSR | |
| Economic | 1 |
| Political | 10 |
| Military | 11 |
| Geographic | 11 |
| Sociological | 11 |
| Biographic | 12 |
| Eastern Europe | |
| Economic | 13 |
| Political | 21 |
| Military | 22 |
| Geographic | 23 |
| Sociological | 23 |
| Western Europe | |
| Economic | 25 |
| Political | 26 |
| Military | 28 |
| Geographic | 29 |
| Sociological | 29 |
| Biographic | 29 |
| Africa | |
| Economic | 29 |
| Political | 30 |
| Geographic | 30 |
| Sociological | 30 |
| Middle East | |
| Economic | 31 |
| Political | 31 |
| Sociological | 32 |

| | <u>Page</u> |
|---|-------------|
| Far East | |
| Economic | 32 |
| Political | 38 |
| Military | 40 |
| Sociological | 41 |
| Latin America | |
| Economic | 43 |
| Political | 43 |
| Sociological | 44 |
| World Wide | |
| Economic | 44 |
| Scientific | |
| Aerospace | 45 |
| Agriculture | 46 |
| Biological & Medical Sciences | 49 |
| Chemistry | 75 |
| Earth Sciences & Astronomy | 81 |
| Electronics | 89 |
| Engineering | 92 |
| Fuels and Propulsion | 98 |
| Materials & Metallurgy | 99 |
| Mathematics & Data Processing | 108 |
| Nuclear Science & Technology | 110 |
| Physics | 121 |
| Miscellaneous | 131 |
| Information on Cover-to-Cover Translations | 134 |
| Author Index | 174 |

CONFIDENTIAL

CORROLIDATED TRANSLATION SURVEY

An author index to items in this issue is appended.

This survey is prepared monthly by Foreign Documents Division, CIA, from lists received through cooperation of US government agencies and includes translations of such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects, completed or started during the month preceding this publication.

Translations are listed by area and **subject** category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date and data of publication, and publication identification of the completed project are given when available.

Some of the above details may be unavailable on projects listed "in process." New projects in process will be listed only once, their subsequent listing being made when they are reported completed. Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title.

REQUESTS FOR COPIES

Requests for copies of published projects should be made direct to the designated producing organization.

All requests for items prefixed by "CIA" should be addressed to Office of Central Reference, 2430 E Street, NW, Washington, D.C. 20505

Addresses of producers follow:

ACSI

Department of Army
Assistant Chief of Staff, Intelligence
Intelligence Documents Branch
Washington 25, D.C.

Requests from non-Government sources for Army documents should be ordered through

Department of Commerce
Office of Technical Services
Washington 25, D.C.

AEC - Atomic Energy Commission (see Department of Commerce)

AERE Harwell Lib

The Librarian
AERE, Ministry of Supply
Harwell, Didcot, Birks
England

AF

Department of Air Force
Collection and Dissemination
Assistant Chief of Staff, Intelligence
ATTN: AFCIN 1B3
Washington 25, D.C.

AFCRL Res Lib

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMCLR

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington 5, D.C.

AID - Aerospace Information Division (see OTS)

AIP

American Institute of Physics
335 East 45th Street
New York 17, New York

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

APL - Applied Physics Laboratory (see Navy)

Army Map Service - (see ACST)

Basic Books

Basic Books Incorporated
59 Fourth Avenue
New York 3, New York

BISI

British Iron and Steel Institute
4 Grosvenor Gardens
London, SW 1, England

CB

Consultants Bureau, Incorporated
227 West 17th Street
New York 11, New York

CRL

Central Research Laboratories, Research Division
Broken Hill Proprietary Co, Ltd,
Shortland, 2N, New South Wales,
Australia

CSIRO

Commonwealth Scientific and Industrial Research Organization
314 Albert Street
East Melbourne, C 2, Victoria
Australia

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York

DDC

Defense Documentation Center
TISIA-1
Arlington Hall Station
Arlington 12, Virginia

Dept of Com

Department of Commerce
Office of Technical Services
Washington 25, D.C.

Dept of Interior

Department of Interior
Department Library
Foreign Documentation Section
Washington, D.C. 20240

Dept of State

Department of State
Division of Library and Reference Service
137 State Annex 1
Washington, D.C.

Doubleday

Doubleday & Company, Incorporated
575 Madison Avenue
New York 22, New York

Dover Pub House

Dover Publishing House
1800 Varick Street
New York 14, New York

Emmanuel Coll Res Lang Ctr

**Emmanuel College Research Language Center
The Fenway
Boston, Massachusetts**

FTD - Foreign Technology Division (see AF)

GB

**Association of Special Libraries and
Information Bureau
3 Belgrave Square
London SW 1, England**

HB

**Henry Bratcher Technical Translation
P.O. Box 157
Altadena, California**

HW

**General Electric Company, Hanford Atomic
Products Operation, Richland, Washington
(see AEC)**

ID - Intelligence Document (see ACSI)

ISA

**Instrument Society of America
313 Sixth Avenue
Pittsburgh 22, Pennsylvania**

JPRS

**U.S. Department of Commerce
Office of Technical Services
Joint Publications Research Service
Building T-30
Ohio Drive & Independence Avenue, SW
Washington 25, D.C.**

K-H

**Kresge-Hooker Science Library
Associates
Wayne State University
Detroit 2, Michigan**

**MCW - Mallinckrodt Chemical Works, Uranium Division
(see AEC)**

NASA

**National Aeronautics and Space Administration
1512 H Street, NW
Washington, D.C. 20546**

Navy

**Department of Navy
Office of Naval Intelligence
Washington 25, D.C.**

NIH

**National Institutes of Health
Translating Section, Library
Building 10, Room 11N112
Bethesda 14, Maryland**

NLL

**National Lending Library
for Science & Technology
Boston Spa, Yorkshire, England**

NMS - Navy Medical School (see Navy)

NRC/C

**National Research Council, Canada
The Library
Sussex Drive
Ottawa 2, Canada**

NRL - Naval Research Laboratories (see Navy)

NZDIA

**Department of Internal Affairs,
Translation Service,
Wellington, New Zealand**

ONI - Office of Naval Intelligence (see Navy)

OTS

**Office of Technical Services
Department of Commerce
Washington 25, D.C.**

**(Also available through Department of Commerce Field
Offices)**

Patent Office

Patent Office
Scientific Library
14th and Constitution Avenue, NW
Washington, D.C.

PS

Primary Sources
11 Bleecker Street
New York 12, New York

Rand Corp

Rand Corporation
ATTN: Publications Office
1700 Main Street
Santa Monica, California

Scripta Technica, Inc.

Scripta Technica Incorporated
1000 Vermont Avenue, NW
Washington 5, D.C.

SLA

SLA Translations Center
The John Crerar Library
86 East Randolph Street
Chicago 1, Illinois

UCRL

University of California Lawrence Radiation Laboratory;
Livermore, California (see AEC)

Univ of Calif Press

University of California Press
Berkeley 4, California

Univ of Chicago Press

University of Chicago Press
5750 Ellis Avenue
Chicago 37, Illinois

USDA

**Department of Agriculture
Foreign Agricultural Service
Room 5086
14th and Independence Avenue, NW
Washington 25, D.C.**

USRL - United States Research Laboratory (see Navy)

Weather Bureau - (see Department of Commerce)

**319th MI Bn - 319th Military Intelligence Battalion
(see ACSI)**

**519th MI Bn - 519th Military Intelligence Battalion
(see ACSI)**

**525th MI Gp - 525th Military Intelligence Group
(see ACSI)**

PROJECTS REPORTED

FOR FEBRUARY 1964

USSR

Economic

- The New Soviet Economic Regions, by Yu. G. Shaushkin, 27 pp.
RUSSIAN, bk, Novoye Ekon Rayon, Moscow, 1963, 32 pp. JPRS 23085
- Handbook of Containers and Packaging of Shipments, by Kuplun, Gallo, et al, 23 pp.
RUSSIAN, bk, Spravochnik po Tare i Upakovke Gruzov, pp 4; 362-367; 381-394. ACSI J-3314
ID 2204004364
- Benefit of Specialization, by A. Paukin, D. Vaysman, 5 pp.
RUSSIAN, per, Agitator, No 21, Nov 1963, pp 44-47. JPRS 23130
- The Chemical Industry of Sungait, by V. Muradyan, 10 pp.
RUSSIAN, np, Bakin Rabochiy, 20 Nov 1963, p 2. JPRS 22900
- Synthetic Materials for Soviet Machine Building, by V. Felitsyn, 5 pp.
RUSSIAN, np, Bakin Rabochiy, 1 Dec 1963, p 1. JPRS 22771
- Synthetic Materials for Soviet Machine Building, by V. Felitsyn, 5 pp.
RUSSIAN, np, Bakin Rabochiy, 1 Dec 1963, p 1. JPRS 22772
- Higher Quality, Increased Reliability, and Longer Service Life of Products at Enterprises of the Moscow City Sovnarkhoz, by N. D. Fursov, 6 pp.
RUSSIAN, per, Byul Tekh-Ekon Informatsii, No 9, 1963, pp 80-82. JPRS 22869
- Process in Lead Plating Apparatus Mechanized, by D. G. Nikitin, V. Yu. Yuronko, 5 pp.
RUSSIAN, per, Byul Tekh-Ekon Informatsii, No 11, 1963, pp 21-23. JPRS 23015
- Selected Articles From the Russian Newspaper Ekon Gazeta.
- No 46, 16 Nov 1963.
Professional Training of Specialists for the Chemical Industry, by V. Yelyutin, 7 pp, (p 4). JPRS 23150
- Training of Personnel for the Large-Scale Chemical Industry, by V. Yelyutin, 7 pp, (p 4). JPRS 23119

USSR
Economic (Contd)

Selected Articles From the Russian Newspaper
Ekon Gazeta. (Contd)

- No 46, 16 Nov 1963.
Television Sets Rendered Useless by Lack of Tubes,
by V. Savel'yov, 6 pp, (p 39). JPRS 22869
- No 47, 23 Nov 1963.
Material Incentives in Industry, by I. Pushkov,
L. Kunel'sky, 6 pp, (p 6). JPRS 23150
- Party-State Control Organs in Belorussia, by G.
Semenikhin, 6 pp, (p 15). JPRS 22846
- Improvement Needed In Organization of Window Glass
Production, by M. Choptsova, 6 pp, (p 40). JPRS 23176
- No 48, 30 Nov 1963.
Prospects for the Development of Chemistry in
Tadzhikistan, by S. Ergashov, 5 pp, (p 3). JPRS 22771
- The Status and Prospects of the Large-Scale
Chemical Industry in Kazakhstan, by N. Satybaldin,
5 pp, (p 6). JPRS 22889
- Economic Miscalculations Lead to Overproduction at
Kuzbassolektromotor Plant, by N. Yudin, 6 pp, (p 12). JPRS 23087
- No 49, 7 Dec 1963. JPRS 22775
Electric Power Construction and Scientific
Research, by L. Shubenko-Shubin, 7 pp, (pp 11, 12).
- Elimination of Moscow Power Research Laboratory
Threatened, by P. Kazakov, 6 pp, (p 43).
- No 50, 14 Dec 1963. JPRS 23071
Irrational Production Contacts in the Northwest
Economic Region, by M. Dolkart, 5 pp, (p 9).
- Problems of Integration and Specialization in Western
Siberia, by D. Bogorad, 6 pp, (p 10).
- No 51, 21 Dec 1963, p 33. JPRS 23071
Problems in Developing New Products, by
V. Sominskiy, 5 pp.
- No 52, 28 Dec 1963.
Miscellaneous Brief Items on Electrical Industry,
5 pp. JPRS 23239
- Interviews With the Heads of the Scientific
Economic Councils under the USSR Academy of Sciences,
8 pp, (pp 10, 11). JPRS 23071

USSR
Economic (Contd)

Selected Articles From the Russian Newspaper
Ekon Gazeta. (Contd)

- No 52, 28 Dec 1963.
Improvements and Innovations at the Gor'kiy Milling
Machines Plant, 17 pp, (pp 30-32). JPRS 22845
- No 1, 4 Jan 1964.
Prospects for the Use of the Cold Cathode, by
A. Nikolayev, 5 pp, (p 13). JPRS 23186
- A Description of Economic Analysis for an
Enterprise, by V. Ganshtak, 6 pp, (p 29). JPRS 23071
- Central Organs of Economic Administration, 7 pp,
(p 34). JPRS 22789
- No 2, 11 Jan 1964.
International Bank for Economic Cooperation, by
A. Afanas'yev, 6 pp, (p 30). JPRS 23147
- Sovmarkhozes of Economic Regions, 5 pp, (p 34). JPRS 22896
- No 3, 18 Jan 1964, p 8.
Proposals in Industrial Managements, by
Yu. Sidorov, 5 pp. JPRS 23216
- Price Lists for Railroad Building Projects, by
V. Zaytsev, 5 pp.
RUSSIAN, per, Ekon Stroitel, No 9, 1961, pp 29-32. JPRS 23193
- Continuous-Flow Techniques as a Condition for the
Industrialization of Construction, by M. Budnikov,
V. Rybal'sky, 11 pp.
RUSSIAN, per, Ekon Stroitel, No 10, 1963, pp 13-20. JPRS 23176
- Electric Equipment News, 6 pp.
RUSSIAN, per, Energetik, No 10, 1963, pp 46, 47. JPRS 22804
- Power Machine Construction Progress, 7 pp.
RUSSIAN, per, Energo-Mash, No 10, 1963, p 40. JPRS 22775
- The Use of Financial Services at Enterprises,
by V. Zotov, A. Sheromet, 13 pp.
RUSSIAN, per, Finansy SSSR, No 7, 1963, pp 53-61. JPRS 23190
- Selected Articles From the Russian Newspaper**
Gudok. JPRS 23053
- 17 Oct 1963, p 3.
Expansion of Chusovskaya Line is Lagging Behind,
by N. Simonovich, V. Cherneyvan, 5 pp.

USSR
Economic (Contd)

Selected Articles From the Russian Newspaper
Gudok. (Contd)

JPRS 23053

- 26 Oct 1963, p 3.
Labor Productivity Calculations for Station
Workers, by N. Silayov, 5 pp.
- 1 Nov 1963, p 3.
For Prompt Adoption of Reinforced Concrete
Railroad Ties, by A. Podpalyy, 5 pp.
- 14 Nov 1963, pp 1, 3.
Shipping Routes for the Large-Scale Chemical
Industry, by I. Vol'skiy, 7 pp.
- Kazakhstan Gearing to Step Up Production of Mineral
Fertilizer for Agriculture, by Kh. Simakov, 5 pp.
RUSSIAN, np, Izvestiya, 31 Oct 1963, p 3. JPRS 23119
- Leningrad Industrial Management, by V. Tolstikov, 6 pp.
RUSSIAN, np, Izvestiya, 15 Nov 1963. JPRS 22846
- Labor Force for the Chemical Industry, by
M. Savel'yev, 5 pp.
RUSSIAN, np, Izvestiya, 17 Nov 1963, p 2. JPRS 23150
- Tasks in the Automating of Production Processes in
Mining Enterprises, 6 pp.
RUSSIAN, per, Iz Vysshikh Uchob Zaved, No 10,
1963, pp 3-7. JPRS 22785
- Developing the Chemical Industry of Kazakhstan,
by M. Savel'yev, A. Vizer, 5 pp.
RUSSIAN, np, Kazakh Pravda, 19 Nov 1963, p 2. JPRS 22900
- 1964-1965 Economic Development in the Kazakh
Republic, by F. F. Bratchenko, 5 pp.
RUSSIAN, np, Kazakh Pravda, 27 Dec 1963, p 1, 2. JPRS 22925
- A Conference on 1964-1965 Developments in Chemical
Machine-Building, by M. D. Mazo, 7 pp.
RUSSIAN, per, Khim Mash, No 5, Sep, Oct 1963, pp 1, 3. JPRS 23015
- Equipment for the Chemical Industry, by I. Salamatov,
8 pp.
RUSSIAN, per, Kommunist, No 17, Nov 1963, pp 88-93. JPRS 22906
- The Role of the Chemical Industry in the Development
of Production Forces, by N. Baybakov, 17 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 14-26. JPRS 22975

USSR
Economic (Contd)

- Grain and Chemistry, by V. Pannikov, 22 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 27-42. JPRS 22975
- The State Plan for Development of the Tadzhik
National Economy in 1964-1965, 5 pp.
RUSSIAN, np, Kommunist Tadzhikstana, 28 Dec 1963,
pp 2, 3. JPRS 23182
- The Gas Industry as a Factor in the Development and
Distribution of the Productive Forces of Uzbekistan,
by N. Mun'ko, 6 pp.
RUSSIAN, np, Kommunist Uzbek, No 9, 1963, pp 41-45. JPRS 22771
- Training of Petroleum Chemical Engineers, by
A. Vvedenskiy, Ye. Zhuravlev, 5 pp.
RUSSIAN, np, Leningrad Pravda, 26 Nov 1963, p 2. JPRS 23150
- Improvement Needed in Performance of Sorpukhov
Synthetic Fiber Plant, by S. Polotskiy, 5 pp.
RUSSIAN, np, Lenin Znanya, 17 Nov 1963, p 2. JPRS 22900
- Industrial Plan Fulfillment in Moskovskaya
Oblast, by S. Volkov, 5 pp.
RUSSIAN, np, Lenin Znanya, 21 Nov 1963. JPRS 22925
- Soviet Machine Building: Rates, Quality, Net Cost,
by G. Persits, 5 pp.
RUSSIAN, np, Lenin Znanya, 23 Nov 1963, p 2. JPRS 22771
- Kaluga Perfume Combine, by S. A. Budagyan, 8 pp.
RUSSIAN, per, Masloboyno-Zhir Prom, No 11, 1963, pp 29-32. JPRS 22906
- Improvement in Mechanization of Construction Needed,
by A. N. Shchepet'yev, 14 pp.
RUSSIAN, per, Mekh Stroitel, No 9, 1963, pp 1-4. JPRS 23176
- Reducing Manual Labor in Construction, by
A. I. Shchepet'yev, 20 pp.
RUSSIAN, per, Mekh Stroitel, No 11, 1963, pp 1-5. JPRS 23150
- History and Achievements of Zaporozhstal Plant on
the Occasion of It's Thirtieth Anniversary, by
L. D. Yupko, 8 pp.
RUSSIAN, per, Metallurg, 11 Nov 1963, pp 1-3. JPRS 22883
- Machinery Manufacturing in CEMA Countries, by
Ye. Slastenko, 8 pp.
RUSSIAN, per, Mirovaya Ekon i Mezhd Otnosheniya, No 11,
1963, pp 111-114. JPRS 23147

USSR

Economic (Contd)

- Kara Tau Heavy Chemical Industry Complex, by
K. Fedotov, 8 pp.
RUSSIAN, per, Narod Khoz Kazakh, No 9, 1963, pp 19-24. JPRS 22846
- Navoinskiy Chemical Combine, by I. Ustimenko, 6 pp.
RUSSIAN, per, Narod Khoz Uzbek, No 11, 1963, pp 50-54. JPRS 22906
- Activities of the Scientific and Engineering Society
NTO at the Armenian Electric Machinery Building, by
D. Sobol, 7 pp.
RUSSIAN, per, Nauch-Tekh Obshch, No 8, 1963, pp 15-17. JPRS 22804
- Labor Education of Zyryanovsk Lead Combine Workers,
by Ye. Sokolova, 6 pp.
RUSSIAN, per, Partiyaya Zhizn Kazakh, No 8, 1963,
pp 14-18. JPRS 22934
- How the Bonus System is Conducted in the Machine
Building Industry, by A. Arkhipov, 6 pp.
RUSSIAN, per, Politich Samoobraz, No 6, 1963, pp 57-60. JPRS 23164
- Kazakhstan Will Increase Its Contribution to the
Development of the Large-Scale Chemical Industry,
by N. Solomentsov, 5 pp.
RUSSIAN, np, Pravda, 12 Nov 1963, p 2. JPRS 23119
- Chemistry and Automation, by G. Kirikov, 5 pp.
RUSSIAN, np, Pravda, 15 Nov 1963. JPRS 23119
- Situation Report on the Chemical Industry of
the Ukraine, by V. Gutyrya, 8 pp.
RUSSIAN, np, Pravda Ukrainy, 28 Nov 1963, p 2. JPRS 22805
- Chemical and Mineral Resources of the Gaurdak
Region, by G. Gabrielyants, V. Sodletskiy, 5 pp.
RUSSIAN, np, Pravda Vostoka, 26 Nov 1963. JPRS 22771
- The State Plan for Development of the Uzbek
National Economy in 1964-1965, by S. K. Ziyadullayev,
5 pp.
RUSSIAN, np, Pravda Vostoka, 28 Dec 1963, p 3. JPRS 23182
- Planned Development of the Large-Scale Chemical
Industry in Tadzhikistan, 5 pp.
RUSSIAN, nps, Pravda Vostoka; Sovet Kirgiziya;
Kommunist Tadzhik; Turkmen Iskra, 26 Nov 1963, p 2. JPRS 22805
- Development of the Chemical Industry in Central
Asia, by S. Kadyshev, 7 pp.
RUSSIAN, nps, Pravda Vostoka; Sovet Kirgi; Kommunist
Tadzhik, Turkmen Iskra, 20 Nov 1963. JPRS 22805

USSR
Economic (Contd)

- Chemistry and Cotton Growing In Uzbekistan: A Situation Report, by G. Davydov, 7 pp.
RUSSIAN, nps, Pravda Vostoka, Sovet Kirgiz; Kommunist Tadjik, Turkmen Iskra, 20 Nov 1963, p 2. JPRS 22805
- Causes of Non-Fulfillment of Plans in the Armonian SSR, 7 pp.
RUSSIAN, per, Prom Armenii, Vol VI, No 10, 1963, pp 3-6. JPRS 23000
- Development of Armenian Heavy Chemical Industry, by G. Arutyunyan, 7 pp.
RUSSIAN, per, Prom Armonii, Vol VI, No 10, 1963, pp 7-10. JPRS 23000
- Economic Problems of Production of Milling Machines, Models Six Hundred Seventy Five and Six Hundred Seventy Six, by A. Puluz'yan, 6 pp.
RUSSIAN, per, Prom Armenii, Vol VI, No 10, 1963, pp 29-32. JPRS 22954
- All-Union Scientific Technical Conference on Corrosion Protection of Structural Elements and Hydrotechnical Structures, by V. M. Medvedev, L. S. Shapiro, 6 pp.
RUSSIAN, per, Prom Stroitel, No 10, 1963, pp 51, 52. JPRS 23176
- A Converter Shop at the Zhdanov Metallurgical Plant, by G. Podutov, 6 pp.
RUSSIAN, per, Prom Stroitel i Inzhenernyye Sooruz, No 5, Sept, Oct, 1963, pp 1-3. JPRS 23017
- Need for Thrift in Metallurgical Industry, by N. Teroshchenko, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 14 Dec 1963. JPRS 23099
- Problems in Raising the Productivity of Labor, 12 pp.
RUSSIAN, per, Sotsial Trud, No 11, 1963, pp 3-10. JPRS 23150
- Material Stimulation of the Results of Industrial Labor, by S. Shkurko, 16 pp.
RUSSIAN, per, Sotsial Trud, No 11, 1963, pp 11-20. JPRS 23150
- Raising the Productivity of Labor, by G. Yevstaf'yev, 14 pp.
RUSSIAN, per, Sotsial Trud, No 11, 1963, pp 44-54. JPRS 23150
- Improving the Production of Consumer Goods in Latvia, by H. Eysmont, 5 pp.
RUSSIAN, np, Sovet Latviya, 14 Sep 1963, p 2. JPRS 22771

USSR

Economic (Contd)

- The Future of the Chemical Industry in Moldavia,
by I. Shkorupeyev, 5 pp.
RUSSIAN, np, Sovet Moldaviya, 23 Nov 1963. JPRS 22771
- Need for Increasing the Productivity of Labor
in Pipe Industry Cited, by Ya. Ye. Osada, 7 pp.
RUSSIAN, per, Stal', No 11, 1963, pp 961-964. JPRS 23017
- Progress of Machine Tool Building in the Last
Decade, 5 pp.
RUSSIAN, per, Stanki i Instrument, No 11, 1963, pp 1,2. JPRS 22954
- Universal Vehicles for the National Economy, by
D. A. Rogovin, N. A. Sidorov, 13 pp.
RUSSIAN, per, Stroitel i Dorozhnoye Mashiny,
Vol VIII, No 9, 1963, pp 1-5. ACSI 1-3923
ID 2253824
- Standard Equipment for Dispatching Centers, by
Yu. Yu. Budantsev, 9 pp.
RUSSIAN, per, Stroitel i Dorozhnoye Mashiny, Vol VIII,
No 11, 1963, pp 13-16. JPRS 22795
- Better Organization Needed in the Production of
Precast Reinforced Concrete, by G. Teresh, 5 pp.
RUSSIAN, np, Stroitel Gazeta, 20 Oct 1963, p 2. JPRS 23176
- Address by I. T. Novikov, Chairman Gosstroy USSR,
Delivered at the 13th Congress of Trade Unions USSR,
8 pp.
RUSSIAN, np, Stroitel Gazeta, 1 Nov 1963, p 2. JPRS 23176
- Survey of Plan Fulfillment by the Building Materials
Industry, 7 pp.
RUSSIAN, per, Stroitel Materialy, No 10, 1963, pp 3, 4. JPRS 23176
- Status and Prospects of Development of the
Production of Polymer Materials for Floors, by
S. V. Paparigopulo, M. F. Strizhevskiy, 6 pp.
RUSSIAN, per, Stroitel Materialy, No 10, 1963,
pp 17-19. JPRS 23176
- Technical Policy in the Lime Industry, by
S. G. Yopifanovskiy, S. A. Krzheminskiy, 7 pp.
RUSSIAN, per, Stroitel Materialy, No 10, 1963,
pp 24-26. JPRS 23176
- Measures for Reducing the Noise Level of the Power
Plant on Board Gas-Turbine Vessels of the Pavlin
Vinogradov Class, by L. I. Bushanskaya, 10 pp.
RUSSIAN, per, Sudostroyeniye, No 10, 1963, pp 30-33. JPRS 23053

USSR
Economic (Contd)

- Organization of Exploitation of Automatic and Mechanized Devices for Technical Control in Machine Building, by I. N. Naginskiy, 7 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 12, 1963, pp 35-37. JPRS 23191
- Cheleken Chemical Combine Now Manufacturing Iodine by the Air Desorption Method, 9 pp.
RUSSIAN, np, Turkmen Iskra, 27 Nov 1963, p 1. JPRS 22805
- Experience in Calculating the Expected Production of Livestock, by A. B. Bryanskiy, 15 pp.
RUSSIAN, per, Vest Statistiki, No 8, 1963, pp 27-36. JPRS 23117
- Charter of All-Union Export-Import Office Tekhsnabeksport, 6 pp.
RUSSIAN, per, Vneshnaya Torgovlya, No 12, 1963, pp 54, 55. JPRS 23147
- Summaries of Cargo Transportation in 1963 River Navigation Season, 6 pp.
RUSSIAN, np, Vodnyy Transport, 23 Nov 1963, p 2. JPRS 23053
- Selected Articles From the Russian Periodical Voprosy Ekon, No 11, 1963.
- Internation Socialist Division of Labor, by O. Logotolov, 6 pp, (pp 3-14). JPRS 23147
- Problems of Stabilizing the Wage System, by Ya. Gomberg, 5 pp, (pp 39-48). JPRS 23150
- Trends in the Organization and Stimulation of Labor, by Vit. D'yachenko, 14 pp, (pp 139-146). JPRS 23150
- Soviet Bloc Cooperation in Agriculture, by Ye. Rudakov, 11 pp, (pp 147-153). JPRS 23147
- Kiev Tochelektropribor Plant Produces Precision Instruments, by Ya. I. Lyubimov, 7 pp.
RUSSIAN, per, Vystavka Dostizheniy Narod Khoz SSSR, 10 Oct 1963, pp 3-5. JPRS 22804
- Progress Reports From Chemical Industry, 6 pp.
RUSSIAN, np, Zarya Vostoka, 24 Nov 1963, p 1. JPRS 22900
- Problems in Organizing the Transport of Mineral Fertilizers, by K. N. Malakhov, 9 pp.
RUSSIAN, per, Zheluz Transport, No 12, 1963, pp 7-11. JPRS 22755

USSR
Economic (Contd)

The Specialization of Tank Cars for the Transport of Chemical Cargoes, by K. A. Bergard, R. V. Mezhoval, 11 pp.
RUSSIAN, per, Zhelez Transport, No 12, 1963, pp 11-14. JPRS 22755

Plastics as Substitute for Steel in Reinforced Concrete Developed, by S. Atayev, N. Frolov, 5 pp.
BELORUSSIAN, np, Sovet Belorussiya, 27 Oct 1963, p 3. JPRS 23176

The State Plan for Development of the Belorussian National Economy in 1964-1965, by S. N. Malinin, 11 pp.
BELORUSSIAN, np, Sovet Belorussiya, 27 Dec 1963, p 2. JPRS 23182

Soviet-Chinese Foreign Trade, 9 pp.
GERMAN, np, Nou Zurcher Zeitung, No 6, 7 Jan 1964, p 8. JPRS 23147

Political

New Horizons are Now Revealed -- The Decisions of the December Plenum are Being Implemented, 15 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 3-13. JPRS 22975

No Relaxation of Effort in the Search for Solutions to International Problems, by V. Aleksandrov, 7 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 106-110. JPRS 22975

The Feat of Leningrad is Immortal, 5 pp.
RUSSIAN, np, Pravda, 27 Jan 1964, p 1. JPRS 22983

The Example of the Communists of the Pobeda Kolkhoz, 5 pp.
RUSSIAN, np, Pravda, 28 Jan 1964, p 1. JPRS 23008

Report on the Second Meeting on Polyploidy, by Yu. I. Goroshchenko, N. A. Chuksanova, 11 pp.
RUSSIAN, per, Tsitologiya, Vol V, No 3, 1963, pp 359, 362. NLL Tr Bulletin
Vol V, No 12, 1963

Soviet-CEMA Agreement, 6 pp.
RUSSIAN, per, Vneshnaya Torgovlya, No 12, 1963, pp 59-61. JPRS 23147

The Communist Party and the Defense of the Soviet Frontiers, by I. I. Petrov, 7 pp.
RUSSIAN, per, Voprosy Istorii Kommunisticheskaya Partiya Sovetskogo Soyuza, Vol VII, No 5, 1963, pp 78-83. ACSI I-3885
ID 2253809

Khrushchev's Miscalculation in Cuba, by Michel Tatu.
FRENCH, per, Le Monde, Oct 1962. Rand Corp
RM-3078-PR

USSR

Military

- The Infantry in Battle, by N. P. Dukachev, 113 pp.
RUSSIAN, bk, Pokhota v Boyu, 1959, pp 1-179. ACSI I-2008
ID 2140799
- Group Night Jumps, by V. Maryutkin, 6 pp.
RUSSIAN, per, Kryl'ya Rodiny, No 6, 1962, pp 13, 14. ACSI I-3576
ID 2250296
- Antitank Projectiles, by V. Nadin, 7 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, 1965,
pp 23, 24. 9691034 FTD-TT-63-643

Geographic

- Barguzin Valley, by B. R. Buyantuyev, 32 pp.
RUSSIAN, pamphlet, Barguzinskaya Dolina, 1959, pp 3-56. ACSI I-3134
ID 2240845
- Compilation and Editing of Maps, by V. V. Yegorov,
O. V. Sokolov, et al, 218 pp.
RUSSIAN, bk, Sostavleniye i Redaktirovaniye Kart,
1962, pp 1-238. ACSI I-2676
ID 2235113
- Types of Terrain and Natural Zoning of the
Buryatskaya ASSR, 30 pp.
RUSSIAN, rpt, Tipy Mestnosti i Prirodnoye Rayonirovaniye
Buryatskoy ASSR, Moscow, 1959, pp 111-139. 9690810 ACSI I-2993-C
ID 2240829
- Photogrammetry in the USSR, by N. C. Oproscu,
I. Negoita, et al, 8 pp.
RUMANIAN, rpt, Buletin Topografic, 1959, pp 5-8; 13-21. ACSI I-3678
ID 2251726

Sociological

- The Value of Handwriting Examination in Criminology,
by Arkadiy Vaksberg, 20 pp.
RUSSIAN, bk, Prestupnik Budet Nayden, Moscow, 1963,
pp 123-142. JPRS 23180
- Social Security in the Soviet State, by L. Lykova,
11 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 43-51. JPRS 22975
- Literature and Contemporaneity, by V. Ozerov, 18 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 75-87. JPRS 22975
- A Beacon of Socialism for the American Continent, by
V. Gorbachev, A. Kalinin, 13 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 96-105. JPRS 22975

USSR
Sociological (Contd)

Development of Feelings and Conscience in Soviet Society,
by R. Zernova, 7 pp.
RUSSIAN, per, Ogonek, Vol XLI, No 25, 1963, pp 12, 13. JPRS 23043

Friendship and Brotherhood, 5 pp.
RUSSIAN, np, Pravda, 19 Jan 1964, p 1. JPRS 22863

Biographic

Yuriy Aleksandrovich Orlov, by V. G. Kas'yanenko, 6 pp.
RUSSIAN, per, Arkhiv Anatom, Gistol i Embriol, Vol XLV,
No 11, 1963, pp 126-128. JPRS 22842

How the Life of Academician L. D. Landau Was
Saved, by, N. I. Grashchenkov.
RUSSIAN, per, Priroda, Vol LII, 1963, pp 106-108. *AEC

Boris Aleksandrovich Arbuzov, by G. Kh. Kamay,
V. A. Kukhtin, 9 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol XXXIII, No 11,
1963, pp 3455-3460. JPRS 22794

EASTERN EUROPE

Economic

- The Development of Industrial Production to 1980, by Todor Khristov, 8 pp.
BULGARIAN, per, Geografiya, Vol XIII, No 8, Nov 1963, pp 1-4. JPRS 22873
- Problems in the Pharmaceutical Chemistry Industry, by Lyubomir Zhelyazkov, 5 pp.
BULGARIAN, per, Khimiya i Industriya, Vol XXXIV, No 5, 1963, pp 161, 162. JPRS 22904
- Territorial Distribution of Industrial Production in the 1961-1980 Period, by Mikhail Enev, 24 pp.
BULGARIAN, per, Novo Vreme, No 12, 1963, pp 41-59. JPRS 23233
- The Main Metallurgical Base in Bulgaria, by Emil Chervenyakov, 7 pp.
BULGARIAN, per, Novo Vreme, No 12, 1963, pp 60-64. JPRS 23097
- Planned Development of the National Economy, by Petko Kunin, 20 pp.
BULGARIAN, per, Novo Vreme, No 12, 1963, pp 89-106. JPRS 23065
- Systems of Material Incentives and Enterprise Reserves, by Mikhail Petev, 10 pp.
BULGARIAN, per, Trud i Tseni, Vol V, No 8, 1963, pp 79-87. JPRS 22901
- Analysis of Some of the Effects of Price Changes in the Yugoslav Economy, by Branko Dorvat, 25 pp.
CROATIAN, per, Ekonomski Pregled, Vol XIV, No 8, 1963, pp 635-654. JPRS 23065
- Concentration of Port Traffic, by Ante Turina, 27 pp.
CROATIAN, per, Ekonomski Pregled, Vol XIV, No 9, 1963, pp 833-854. JPRS 23061
- Certain Problems Concerning Highways, Highway Transportation and Highway Organization, by Zvonimir Jelinovic, 32 pp.
CROATIAN, per, Ekonomski Pregled, Vol XIV, No 9, 1963, pp 882-904. JPRS 23061
- Organization and Role of Inspection Service in Transportation and Communications, by Milorad Korac, 12 pp.
CROATIAN, per, Narodna Uprava, Vol XIV, No 12, 1963, pp 486-492. JPRS 22976
- Contribution to the Study of the Development of the Chemical Industry in the Tuzla Basin, by Serif Saracevic, 19 pp.
CROATIAN, per, Narodna Uprava, Vol XIV, No 12, 1963, pp 511-522. JPRS 22978

Eastern Europe
Economic (Contd)

Selected Articles From the Croatian
Periodical Tehnika.

- Vol IX, No 12, 1963, pp OB-408, OB-413. JPRS 22905
The Gosa Factory for the Production of Railroad
Cars and Metal Structural Parts, at Smederevska
Palanka, 11 pp.
- Vol XVIII, No 12, 1963.
Imports of Machinery Into Yugoslavia, 1957-1961,
by Jovan Mitrovic, 23 pp, (pp 2170-2178). JPRS 22872
- Production of Machine Tools in Yugoslavia, by
Milan Vuco, 10 pp, (pp 2263-2266). JPRS 22905
- The Need for Highly Qualified Personnel in the
Chemical Industry, by Jovan Dugosevic, 14 pp,
(pp 2297-2301). JPRS 22904
- The Development of the Foodstuffs Industry in
Rumania Under the Six-Year Plan, 1959-1965,
(pp 2309-2314). JPRS 22876
- Use of Domestic Silica Gels for the Chromatographic
Separation of Oils, by J. Baxa, 8 pp.
CZECH, per, Ropa a Uhlie, Vol IV, No 6, 1962, JACS 1-2344-B
pp 164-168. ID 2229419
- Effect of Chlorinated Paraffin Wax in Mineral
Oils in Oil-Resistant Rubber, by J. Hlavnicka,
J. Nevaril, 5 pp.
CZECH, per, Ropa a Uhlie, Vol IV, No 6, 1962, JACS 1-2344-C
pp 186-188. ID 229419
- Modernization of Mountain Roads, by Jaroslav Hisek,
5 pp.
CZECH, per, Silnici Doprava, No 8, 1963, pp 7-9. JACS 1-3830-A
ID 2253799
- Information on Highways in the Rumanian Peoples
Republic, by J. Spurek, 7 pp.
CZECH, per, Silnici Doprava, No 8, 1963, JACS 1-3830-B
pp 16-20. ID 2253799
- Concepts Concerning the Long Term Development of
Highways and Local Communications, 5 pp.
CZECH, per, Silnici Doprava, No 9, 1963, pp 1-3. JACS 1-3829
ID 2253798
519th MI Bn
- Comparison of Results of State Farms, by Oldrich,
Rejchr, 10 pp.
CZECH, per, Statni Statky, Vol VI, No 11, 1963, JPRS 23004
pp 162, 163.

**Eastern Europe
Economic (Contd)**

Special Activities of the Czechoslovak Scientific
Technical Society.

CZECH, per, Technicka Praca, Vol XV, No 10, 1963,
pp 840-845.

*ACSI I-3972
ID 2204002364

Interweaving -- A New Technology in Textiles, by
L. Sobotka.
CZECH, per, Veda a Technika Mladezi, No 17, 1963,
pp 591-593.

*ACSI I-3964
ID 2204001564
519th MI Bn

Survey of Tasks Facing the Economy in 1964,
by Bruno Thurow, 6 pp.
GERMAN, per, Arbeit und Arbeitsrecht, No 24,
Dec 1963, pp 549-551.

JPRS 23065

A New Two-Axle Diesel Motor Coach for the German
Reichsbahn, by Manfred Kriegel, 20 pp.
GERMAN, per, Deutsche Eisenbahntechnik, Vol XI,
No 9, 1963, pp 394-401.

JPRS 23233

Functions of the Special Riesa Branch of the German
Investment Bank, by Schreiter, Riesa, 11 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No 22,
Nov 1963, pp G4-G6.

JPRS 23213

VVB Branches of the German Peasant Bank, by
Herbert Gieseler, Halle, et al, 11 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No 22,
Nov 1963, pp G9-G11.

JPRS 23213

Economic Experiments Preparatory to a Reform of the
Payment and Settlement System of East Germany, by
Harald Dietrich Kuehne, Helmut Rossner, 9 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No 23, Dec 1963,
pp 4-6.

JPRS 23065

Development of the GDR Chemical Industry and the
National Economic Significance, by Karl-Heinz Schaefer,
Helmut Woinhardt, 12 pp.
GERMAN, per, Einheit, No 11, 1963, pp 20-29.

JPRS 23002

Self-Consistency of Statistical Structural Analyses,
by V. Sandor, E. DeRuiter, et al.
GERMAN, per, Erdol und Kohle, Vol XV, 1962,
pp 713-717.

NRC/Ref: C-4403

East German State Council Decree On the 1964 State
Budget, 11 pp.
GERMAN, per, Gesetzblatt der Deutsche Demokratischen
Republik, Vol I, No 14, 15 Oct 1963, pp 161-165.

JPRS 22901

**Eastern Europe
Economic (Contd)**

- The Cooking of Foods, by L. Linko.
GERMAN, per, Die Lebensmittel-Industrie,
Vol X, 1963, pp 183-187. *ACSI I-3954
ID 2204000564
- Flexible Shipping Containers, by Hauptmann J. Weitzmann.
GERMAN, per, Militartechnik, No 6, 1961, p 188. *ACSI I-3956
ID 2204000764
- Contribution to the Investigation of Proteins
of Different Cereals, by N. P. Kosmin, 6 pp.
GERMAN, per, Die Muhle, Vol XCV, No 12, 1958,
pp 153-154. SLA 63-16340
- Fresh Keeping Packages, by W. Schoppmeyer, 14 pp.
GERMAN, per, Neue Verpackung, Vol V, No 8, 1952. SLA 63-16491
- Problems of the Economic Development of Rumania, by
Alfred Graef, 27 pp.
GERMAN, per, Ostouropa Wirtschaft, No 2, Jun 1963,
pp 122-138. JPRS 23213
- Shipbuilding in the German Democratic Republic, by
A. Dudssus, 21 pp.
GERMAN, per, Schiffbautechnik, Vol XIII, No 11, 1963,
pp 563-570. JPRS 23185
- Ship Construction in the German Democratic Republic
in 1963, by H. Dronkhahn, 13 pp.
GERMAN, per, Schiffbautechnik, Vol XIII, No 12, 1963,
pp 624-628. JPRS 23002
- On the Work of the Preliminary Evaluation Committees,
by W. Schroter, E. Heldmann, et al, 12 pp.
GERMAN, per, Standardisierung, No 22, 15 Nov 1963,
pp 1/1478-1/1481. JPRS 23185
- The Business Contract in the Economic System of
Planning and Managing the Construction Industry, by
Manfred Enzmann, 8 pp.
GERMAN, per, Vertragssystem, Vol VII, No 10, 1963,
pp 293-295. JPRS 22916
- Construction of Chemical Installations Determines the
Development Pace of the Chemical Industry, by Hans Bestla,
6 pp.
GERMAN, per, Die Wirtschaft, No 48, 24 Nov 1963, p 22. JPRS 23233
- Experiences in Overcoming Winter Difficulties in
Railroad Traffic, 7 pp.
GERMAN, per, Z der Organisation fuer die Zusammenarbeit
der Eisenbahnen OSSH0, Vol VI, No 5, Sep, Oct 1963,
pp 1-3. JPRS 23141

**Eastern Europe
Economic (Contd)**

Procedure for the Preparation of Cereal Glut in Dry Form, by Alfred Parlow, Phillip Bender, 6 pp.
GERMAN, Patent No 1,098,799, 1954.

OTS 63-14939

The Situation of Petroleum Mining From 1957 to the Present, by Vilmos Bese, 19 pp.
HUNGARIAN, per, Banyaszati Lapok, Vol XCVI, No 10, 1963, pp 656-664.

JPRS 23005

Selected Articles From the Hungarian Periodical Csomagolas Technika, No 5, 6, 1963.

*ACSI I-3961
ID 2204001264

A. Some Theoretical and Practical Questions in Computing the Permeability of Solid Polymers, by Ivan Varsanyi, (pp 71-73).

B. Design and Development of Packaging for Transporting Machinery, by Rudolf Barlai, (pp 75-80).

C. Complex Problems in Packaging and Palletization, Part III, by Robert Somogyi, (pp 81-85).

D. Re-Use of Second-Hand Containers, (pp 85, 86).

E. Special Courses in Packaging, by Robert Somogyi, (pp 87, 88).

Contractual Raw Material Supply of the Food Industry, by Janos Kovesi, 11 pp.
HUNGARIAN, per, Elelmozesi Ipar, Vol XVII, No 10, 1963, pp 319-323.

JPRS 23081

Development of the Szekesfehervar Nonferrous Metallurgical Works, by Frigyes Koder, 9 pp.
HUNGARIAN, per, Kohaszati Lapok, Vol XCVI, No 10, 1963, pp 440-442.

JPRS 22873

Division of Labor and Economic Efficiency in Transport, by Zoltan Palotas, 22 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, Vol X, No 12, 1963, pp 1426-1443.

JPRS 23005

The Corrected Price Leveling Index, by Csaba Ratz, Bela Sipos, 10 pp.
HUNGARIAN, per, Kulkereskedelem, Vol VII, No 10, 1963, pp 24-27.

JPRS 23144

**Eastern Europe
Economic (Contd)**

- Subsequent Tasks of Electric Power Distribution Enterprises,
by Laszlo Orosz, 14 pp.
HUNGARIAN, per, Megyei es Varosi Statis, Vol XIII, No 11,
1963, pp 521-529. JPRS 22976
- Manpower Turnover and Problems of Manpower Management,
by Jozsef Czonder, 13 pp.
HUNGARIAN, per, Munkaugyi Szemle, Vol VII, No 10, 1963,
pp 1-6. JPRS 23065
- Development of the Chemical Industry, by Bela Malinovszki,
6 pp.
HUNGARIAN, per, Partolet, Vol VIII, No 12, 1963,
pp 29-33. JPRS 22873
- The Production and Consumption of Energy Carriers, by
Tamas Kovacs, 12 pp.
HUNGARIAN, per, Statisztikai Szemle, Vol XLI, No 12,
1963, pp 1063-1072. JPRS 23018
- Problems and Development of the Economic Cooperation
Between Socialist Countries, by Irmo Vajda, 14 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 12, 1963,
pp 12-24. JPRS 23159
- Touristic Waterways of Poland, by Bronislaw Jastrzebski,
568 pp.
POLISH, bk, Turystyczne Szlaki Wodne Polski, Warsaw,
1960, pp 1-782. 9690566 ACS1 I-1649
ID 2201428
- Concerning Effective Financial Planning, by
Wanda Moscicka, 11 pp.
POLISH, per, Finanse, No 11, 1963, pp 15-23. JPRS 22901
- Certain Financial and Organizational Problems of
Agricultural Circles, by Tadeusz Wyszomirski, 10 pp.
POLISH, per, Finanse, No 11, 1963, pp 34-41. JPRS 22871
- Major Problems of Water Economy in Poland, by
Janusz Grochulski, 9 pp.
POLISH, per, Gospodarska Wodna, No 8, 9, 1963,
pp 292-295. JPRS 23206
- Current Investment Problems, by Marian Bartnicki, 15 pp.
POLISH, per, Nowe Drogi, No 1, 1964, pp 46-57. JPRS 23065
- Economic Effects and the Future of the Applianc of
Pesticides in Poland's Pest and Disease Control In
1963-1965.
POLISH, per, Postepy Nauk Rolniczych, Vol X, No 3,
May, Jun 1963, pp 3-26. JPRS 22899

**Eastern Europe
Economic (Contd)**

- The Polish Chemical Industry in CBMA, by Edward Zawada, 7 pp.
POLISH, per, Przemysl Chemiczny, No 11, 1963, pp 595-597. JPRS 22881
- The Development Prospects of the Meat Industry, by Leon Bachowski, 7 pp.
POLISH, per, Przemysl Spozycowy, No 10, 1963, pp 21-26. JPRS 23081
- Agricultural Commodities in Foreign Trade, by Marian Brzoska, 31 pp.
POLISH, per, Zagadnienia Ekonomiki Rolnej, No 5, 1963, pp 118-135. JPRS 23048
- Basic Problems in Evaluating Industrial Enterprise Activities, by Stefan Jedrychowski, 14 pp.
POLISH, np, Zycie Gospodarcze, No 50, 15 Dec 1963, pp 1, 6, 7. JPRS 23065
- Requirements-Capabilities Alternatives the National Income, by Jan Glowczyk, 11 pp.
POLISH, np, Zycie Gospodarcze, No 51, 52, 22-29 Dec 1963, pp 1, 2. JPRS 22901
- Development of the Ferrous Metal Industry, by Ion Marinescu, 15 pp.
RUMANIAN, per, Lupta de Clasa, No 12, 1963, pp 3-12. JPRS 22978
- Savings Equivalent to 3,100 Tons of Metal by Rolling at Negative Tolerances, by Aurel Ardeleanu, 5 pp.
RUMANIAN, per, Otelul Rosu, 1963. JPRS 22978
- Increased Utilization of Crude Oil, by Nicolae Ionescu, 17 pp.
RUMANIAN, per, Probleme Economice, No 11, 1963, pp 19-30. JPRS 22904
- Cost Reduction - An Important Task of the Metallurgical Industry, by M. Dumitrascu, C. Vonica, 15 pp.
RUMANIAN, per, Probleme Economice, No 11, 1963, pp 31-42. JPRS 22904
- Expansion of Standardization by Types and Unification in the Machine Construction Industry, by V. Gavat, 15 pp.
RUMANIAN, per, Probleme Economice, No 11, 1963, pp 43-53. JPRS 22905

**Eastern Europe
Economic (Contd)**

The Computing of the Real Income of the Population,
by C. Prisacaru, 7 pp.
ROMANIAN, per, Revista de Statistica, Vol XII, No 11,
1963, pp 18-25. JPRS 23144

Possibilities for Shortening the Construction Time
for Investment Projects of the Chemical Industry,
by Gioroiu Raducan, 5 pp.
ROMANIAN, np, Scintila, Vol XXXIII, No 6099,
7 Dec 1963, pp 1, 5. JPRS 22904

**Selected Articles From the Rumanian Periodical
Viata Economica.**

Vol I, No 16, 6 Dec 1963, pp 1, 4. JPRS 23002
Cooperation Among Enterprises in the Bulding
of Machines, by Gh. Oprea, 5 pp.

Vol I, No 18, 20 Dec 1963.
Development of the Plastics and Synthetic
Resins Industry, by Mihail Florescu, 9 pp,
(pp 1, 4). JPRS 23097

Present Tasks for Scientific Research in the
Field of Statistics, by Mircea Biji, 5 pp, (p 3). JPRS 23165

Vol I, No 19, 27 Dec 1963, p 6. JPRS 23233
Developmental Trends of the Electrical Manufacturing
Industry, by R. Vladoianu, 5 pp.

The Causes and the Characteristics of Economic Move-
ments in Yugoslavia in 1961 and 1962, by Sime Djodan,
45 pp.
SERBOCROATIAN, per, Ekonomski Pregled, No 8, 1963,
pp 657-697. JPRS 23065

Planning in Yugoslavia and Approaches to a Seven-Year
Plan, by Ismet Dautbasic, 10 pp.
SERBOCROATIAN, per, Narodna Uprava, Vol XIV, No 10, 11,
1963, pp 425-430. JPRS 22901

The Effect of Exports and Imports on the Domestic
Produce Market, by Vladimir Stipetic, 22 pp.
SERBOCROATIAN, per, Poljoprivreda i Zadrugarstvo, Vol X,
No 11, 1963, pp 3-21. JPRS 22913

Financing of Investments for the Development of Tourism,
5 pp.
SERBOCROATIAN, per, Vesnik Jugoslovenske Investicione
Banke, No 81, Sep 1963, pp 3-5. JPRS 23165

Ferrous Metallurgical Capacities and Intogration in CEMA
Countries, 5 pp.
SERBOCROATIAN, per, Vesnik Jugoslovenske Investicione
Banke, No 81, Sep 1963, pp 20, 21. JPRS 23159

Eastern Europe
Political

What the Albanian Leaders are Celebrating -- The Albanian Leaders by Means of Various Combinations, are Trying to Strengthen Their Terrible System, by Reis Shaqiri, 7 pp.

ALBANIAN, np, Flaka e Vellaznimit, Vol XVII, No 650, 651, 27 Nov 1963, p 5; 8 Dec 1963, p 4.

JPRS 22974

A New Pamphlet, With Old Falsifications on the Occasion of the Fifteenth Anniversary of the First Congress of the Albanian Communist Party, by Mustafa Shula, 9 pp.

ALBANIAN, per, Rilindja, 20, 21, 22 Nov 1963, p 2.

JPRS 22974

Albanian Party Organ Lauds Bolshevik Revolution, by Vilifies Khrushchev, Tito, 15 pp.

ALBANIAN, per, Rruga e Partise, Vol X, No 11, 1963.

JPRS 22779

Development of Albanian Communist Party and Break With Titi Described, by Sotir Madhi, 8 pp.

ALBANIAN, per, Rruga e Partise, Vol X, No 11, 1963, pp 16-25.

JPRS 22779

The Creative Nature of Marxism and Modern Dogmatism, by Kiril Vasilev, 9 pp.

BULGARIAN, per, Filosofska Misul, No 5, Sep, Oct 1963, pp 4-18.

JPRS 22997

Problems of the Socialist State, by Yaroslav Radev, 15 pp.

BULGARIAN, per, Novo Vreme, No 12, 1963, pp 5-15.

JPRS 23051

Party Work and Bulgarian Art and Literature, by Dimitur Metodiev, 5 pp.

BULGARIAN, np, Rabotnichesko Delo, 5 Jan 1964, p 3.

JPRS 22997

Resolution Adopted by Central Committee of the Czechoslovak Communist Party at Its Plenary Session of 18, 19 December 1963, by Vladimir Koucky, 32 pp.

CZECH, np, Rude Pravo, 20 Dec 1963.

JPRS 22997

Speech by Politburo Member Vladimir Koucky at the 18, 19 December 1963 Plenum of the Czechoslovak Party Central Committee, by Vladimir Koucky, 56 pp.

CZECH, np, Rude Pravo, 21 Dec 1963.

JPRS 22997

Germany Behind the Wall, by Roland Delcour, 27 pp.

FRENCH, np, Le Monde, Jan, Feb 1962.

Rand Corp
E1-3078-PR

Perfecting the Education of the Leading Economic Cadres in Czechoslovakia, by J. J. Camra, 13 pp.

GERMAN, per, Arbeit und Arbeitsrecht, No 23, Dec 1963, pp 536-540.

JPRS 23217

Eastern Europe
Political (Contd)

Partners or Rivals, Europe and the United States, by
Fritz Erler.
GERMAN, np, Der Monat, Feb 1963. Rand Corp
RM-3078-PR

Boundary of Peace, by W. Iwanicki, H. Stern, et al,
7 pp.
POLISH, np, Trybuna Ludu, 25 Jan 1964, p 3. JPRS 23217

Report of the Committee of the Composers Union
Presented at the National Conference of Composers
and Musicologists, by Ion Dumitrescu, 9 pp.
RUMANIAN, np, Contemporarul, 20 Dec 1963, pp 1, 6. JPRS 23217

Leading Personnel of Sociopolitical Organizations
of Yugoslavia, 78 pp.
SERBIAN, per, Jugoslovenski Pregled, No 10, 1963,
pp 381-410. JPRS 23051

Law on the Constitutional Court of Yugoslavia, 22 pp.
SERBOCROATIAN, per, Sluzbeni List SERJ, No 52, Dec 1963,
pp 971-977. JPRS 23217

Military

Armor Protection and Effect of Antitank Guns, by
Bozo Kovacic.
CROATIAN, per, Vojni Glasnik, No 5, 1963, pp 24-35. *ACSI I-5960
ID 2204001164

Interview With General Major K. Kucera on Training,
by Jiri Horský, 10 pp.
CZECH, np, Obrana Lidu, No 51, 52, Vol XXI, 1963,
23 Dec 1963, p 6. JPRS 23181

Clothing, Equipment and Rations.
GERMAN, rpt, Handbuch fuer Motorschuetzen, 1963,
pp 71-88. *ACSI I-4172
ID 2204004264

Collective Defense Means, 15 pp.
GERMAN, rpt, Handbuch des Unteroffiziers fuer die
Schutzausbildung, 1959, pp 109-125, rpt No DV-66/6. ACSI I-3898
ID 2253810

Summary of a Report, by Helmut Schmidt.
GERMAN, np, Die Berliner Stimme, 8 Sep 1962. Rand Corp
RM-3078-PR

Airborne Cavalry, by M. Sadykiewicz.
POLISH, bk, Kawaleria Powietrzna, Warsaw, 1963,
pp 134-306. *FTD-TT-64-116

Missile Self-Guidance Based on Seeking the Infrared,
by T. Burakowski, A. Sala.
POLISH, per, Wojskowy Przegląd Lotniczy, Vol XVII,
No 5, 1963, pp 22-36. *FTD-TT-64-85

Eastern Europe
Military (Contd)

Seven Men and One Gun, by J. Magnuski.
POLISH, np, Zolnierz Polski, No 32, 11 Aug 1963,
pp 8, 9. *ACSI 1-3963
ID 2204001464
519th MI Bn

Automatic Guidance and Combined Guidance Systems for
Rockets, by D. Andreescu.
RUMANIAN, per, Viata Militara, No 3, 1963, pp 31-. *FTD-TT-64-84

Let Us Present the General Military Academy, by
Ion Costea, 5 pp.
RUMANIAN, per, Viata Militara, No 11, 1963, pp 14, 15. JPRS 23181

Marksmanship, 16 pp.
SERBOCROATIAN, per, Jugoslovenski Pregled, No 9, 1963,
pp 365-369. JPRS 23181

Geographic

Our Specially Compiled Single Geological Map --
1:200,000.
ALBANIAN, np, Zeri i Popullit, 24 Aug 1963, p 1. *ACSI 1-3955
ID 2204000664

Physical Geography of Bulgaria, by Zh. Gulubov,
Il. Ivanov, et al, 411 pp.
RUSSIAN, bk, Fiz Geografiya Bolgarii, Moscow, 1960,
pp 1-358. JPRS 22726

Sociological

Regulation Governing the Tasks, Organization, and
Activity of the Culture and Art Sections of the
People's Councils, by Petur Vutov, 10 pp.
BULGARIAN, per, Burzhaven Vestnik, No 102, 31 Dec 1963,
pp 2-4. JPRS 23155

Social Aid Services, by Nada Kebejljic, 8 pp.
CROATIAN, per, Narodna Uprava, Vol XIV, No 12,
1963, pp 496-500. JPRS 22998

Organization Problems of Opstina Assemblies With
More Than One Chamber, by Petar Hucera, 11 pp.
CROATIAN, per, Uprava, No 7, 8, 1963, pp 244-251. JPRS 23199

Evaluation of Efficiency of Employees in
Administration, by Bjuro Gataric, 25 pp.
CROATIAN, per, Uprava, No 7, 8, 1963, pp 257-274. JPRS 23199

Eastern Europe
Sociological (Contd)

Myth and Cult Among Primitive Peoples, by
Adolf E. Jensen.
GERMAN, bk, 349 pp.

Univ of Chicago Pres

Higher Education - A Rich Content, by
Florica Dinulescu, Al. Popescu, 7 pp.
RUMANIAN, np, Scinteia, No 6109, 17 Dec 1963,
pp 3, 4.

JPRS 23044

Political-Legal Basis for Citizen Associations,
by Miodrag Zecevic, 14 pp.
SERBIAN, per, Narodni Odbor, No 11, 1963, pp 547-557.

JPRS 23174

Protection of Employed Minors, by M. Jelicic, 9 pp.
SERBIAN, per, Narodni Odbor, No 11, 1963, pp 563-570.

JPRS 23174

Basic Demographic Indicators for Yugoslavia, 14 pp.
SERBOCROATIAN, per, Jugoslovenski Pregled, No 10,
1963, pp 375-380.

JPRS 23155

Institutions for Training Primary School Teachers in
Yugoslavia, 10 pp.
SERBOCROATIAN, per, Prosvetna Dokumentacija, Vol VII,
No 5, 1963, pp 3-12.

JPRS 22875

Law on Amendments and Supplements to the General
Law on Schooling, 22 pp.
SERBOCROATIAN, per, Sluzbeni List SFRJ, Vol XX, No 1,
1964, pp 1-7.

JPRS 23223

WESTERN EUROPE

Economic

COPA. Manifest Adopted by the Extraordinary Meeting of 15 November 1963 Held in Strasbourg, 9 pp.
FRENCH, rpt, Encl to Desp ECBUS A-393, USEC, Brussels. Dept of State

Summary of the European Economic Community Developments in 1963, 11 pp.
FRENCH, rpt, Encl No 1 to Desp ECBUS A-441, USEC, Brussels. Dept of State

The Case of an Industrial Decentralization, 6 pp.
FRENCH, per, Le Centre Industriel, No 15, 1963, pp 30-33. (Call No HC271 C39, No 15, 1963, Eng Tr) Army Map Service

Brief Review of 1963 Activity in Swiss Textile Industry, 5 pp.
GERMAN, rpt, Encl No 1 to Desp A-72, AmCongen, Zurich. Dept of State

Draft Law on Construction Measures for the Protection of the Civilian Population, Shelter Construction Law, 61 pp.
GERMAN, rpt, Entwurf eines Gesetzes über Bauliche Massnahmen zum Schutz der Zivilbevölkerung, Schutzbaugesetz, Bonn, 14 Jan 1963, pp 1-61. 9690414 ACSI I-2418
ID 2229445

Decree No 298: Regulation of Procedures for Trade With West Germany and West Berlin, 5 pp.
GERMAN, per, Markt-Informationen, No 49, 9 Dec 1963, p 11. JPRS 23048

Decree No 299: Export Regulations for Trade With West Germany and West Berlin, 10 pp.
GERMAN, per, Markt-Informationen, No 49, 9 Dec 1963, pp 11, 12. JPRS 23048

The Boom in the Automobile Industry, by H. G. Sch, 5 pp.
GERMAN, per, Schweizer Industriehblatt, Vol XXXVI, No 18, 1963, pp 445, 446. (Call No HC397 S39, Vol 36, No 18, Eng Tr) Army Map Service

A Better NATO for Less Money, Fundamentals of a Western European Defense Policy, by Ferdinand Otto Miksche, 112 pp.
GERMAN, per, Wehr und Wirtschaft, Vol VI, No 10, 1962, pp 437-459. Navy Tr 3703
ONI 972

Western Europe
Political

- Belgian Communist Party Secretary Beelen Sees Government Crisis, by Rene Beelen, 5 pp.
FRENCH, np, Le Drapeau Rouge, 17 Dec 1963, pp 1-3. JPRS 22779
- Belgian Communist Renard Finds Some Validity in Socialist Larock's Utopian Socialism, by Claude Renard, 6 pp.
FRENCH, np, Le Drapeau Rouge, 24 Dec 1963, p 2. JPRS 22841
- Rene Beelen's Report to the Belgian Communist Party Central Committee on the Belgian Political Situation, 11 January 1964, by Rene Beelen, 15 pp.
FRENCH, per, Drapeau Rouge-Magazine, 18 Jan 1964, 4 pp. JPRS 23197
- An Analysis of the Thirtieth Italian Socialist Party Congress of October 1963, by Rocco Astori, 7 pp.
FRENCH, per, Est & Ouest, No 310, 1-15 Dec 1963, pp 7-10. JPRS 22708
- Draft Statutes of the French Communist Party, Adopted by the Central Committee, 9-10 January 1964, 16 pp.
FRENCH, np, L'Humanite, 16 Jan 1964, p 6. JPRS 23197
- Communist Officials Worry About the Berlin Crisis, by Philippe Ben.
FRENCH, np, Le Monde, Sep 1962. Rand Corp RM-3078-PR
- The Grand Design, by Maurice Duverger.
FRENCH, np, Le Monde, Jan 1963. Rand Corp RM-3078-PR
- Call for a Consistent French Defense Policy, by Alexandre Sanguinette.
FRENCH, np, Le Monde, 12, 13 Sep 1963. Rand Corp RM-3078-PR
- Dissident Communist Opposition Criticizes French Communist Party's Foreign and Domestic Policies, by Catherine Rivier, 8 pp.
FRENCH, np, La Voie Communiste, No 39, Dec 1963, pp 8-10. JPRS 22680
- Effect of the International Communist Conflict on Individual Communist Parties, by Franz Muhri, 8 pp.
GERMAN, per, Weg und Ziel, No 11, 1963, pp 687-695. JPRS 22779
- The Majority Proposal to the Minority, 5 pp.
ITALIAN, np, Avanti, 20 Dec 1963, pp 1, 6. JPRS 22779

Western Europe
Political (Contd)

- An Editorial by Franco Gerardi, by Franco Gerardi, 5 pp.
ITALIAN, np, Avanti, 19 Jan 1964, p 1. JPRS 23197
- An Italian Socialist Analysis of the Togliatti-Hao
Polemic, by Leone Iraci, 10 pp.
ITALIAN, per, Corrispondenza Socialista, No 11, 1963,
pp 575-579. JPRS 22568
- Nagri on the Marxist Theory of the Revolutionary Party,
by Lucio Nagri, 35 pp.
ITALIAN, per, Critica Marxista, No 5, 6, Sep-Dec 1963,
pp 61-102. JPRS 22612
- Natta and Pajetta on Democratic Centralism in the
PCI, by Alessandro Natta, 22 pp.
ITALIAN, per, Critica Marxista, No 5, 6, Sep-Dec 1963,
pp 103-130. JPRS 22612
- Amendola on Mass Movement and Organization, by
Giorgio Amendola, 22 pp.
ITALIAN, per, Critica Marxista, No 5, 6, Sep-Dec 1963,
pp 158-185. JPRS 22613
- Amendola Discusses Communist Opposition to Center-
Left Government, by Giorgio Amendola, 5 pp.
ITALIAN, per, Rinascita, No 50, 21 Dec 1963, pp 1, 2. JPRS 22779
- Pavolini Analyzes the PSI's Problem, by Luca Pavolina,
5 pp.
ITALIAN, per, Rinascita, 28 Dec 1963, pp 1, 2. JPRS 22841
- Selected Articles From the Italian Newspaper
l'Unita.
- 7 Dec 1963, pp 1, 10. JPRS 22568
Ingrao's 6 December Report on the Moro Government,
by Pietro Ingrao, 19 pp.
- 10 Dec 1963, p 6. JPRS 22568
Central Committee of the Italian Communist Party
elects, December 1963, by Palmiro Togliatti, 9 pp.
- 14 Dec 1963, p 11. JPRS 22779
Excerpt From Togliatti's 13 December Speech to the
Chamber of Deputies, by Palmiro Togliatti, 6 pp.
- 21 Jan 1964, p 2. JPRS 23197
Berlinguer Reiterates Communist Stand in Reply
to Avanti, by Enrico Berlinguer, 5 pp.

Western Europe
Political (Contd)

Vigleik Leira Questions CPSU Line on Good and Bad Imperialists by Vigleik Leira, 6 pp.
NORWEGIAN, np, Friheten, 7 Dec 1963, pp 8-10. JPRS 22708

Holmberg and Senander Criticize Lack of Party Democracy, Absense of Discussion and Information, by Nils Holmberg, Knut Senander, 7 pp.
SWEDISH, np, Ny Dag, 6 Dec 1963, pp 2, 6. JPRS 22708

Military

The Conduct of Repairs, by A.H.H. Vos.
DUTCH, per, De Militaire Spectator, No 10, 1963, pp 455-465. *ACSI I-3973
ID 2204002464

The French Armed Forces After Algeria, by Jean Planchais.
FRENCH, np, Le Monde, Jun 1963. Rand Corp
RM-3078-PR

Ministry of Defonso, 10 pp.
FRENCH, per, Moniteur Belge, 3 Dec 1963, AIRA, Brussels. AF 1807023763

The Responsibility for National Defense, 10 pp.
GERMAN, rpt, 17 Oct 1963. ID 28340480863

German Views on Defense, by Adlebert Weinstein,
WESTGERMAN, np, Frankfurter Allgemeine Zeitung, 14 Aug 1962. Rand Corp
RM-3078-PR

Regulations Concerning the Service Uniforms for the Personnel of the Firefighting Elements of the Bundeswehr, as Well Their Procurement and Control.
GERMAN, per, Ministerialblatt des Bundesministers der Verteidigung, No 20, 15 Aug 1963, pp 395-397. *ACSI I-3962
ID 2204001364

The Militant Unit of Italian Communists, by Ugo Pecchioli, 10 pp.
RUSSIAN, per, Kommunist, No 18, Dec 1963, pp 111-118. JPRS 22975

The Swedish Civil Defense Law, 30 pp.
SWEDISH, rpt, OUSARMA, Stockholm, Sweden. ID 2892015063

Rationalized QM Storage, by C. G. Hasselstrom.
SWEDISH, per, Svensk Intendentur Tidskrift, No 9, 1963, pp 222-231. *ACSI I-3965
ID 2204001664

Western Europe
Geographic

Comparison Between Coast and Geodetic Survey's
and Survey Office's Adjustment of Finland's
Triangulation Net, by Sven Vik, 42 pp.
SWEDISH, rpt, Jamforelser Mellan Coast And Geodetic
Survey's Och Lanmateriaistyrelsens Utjämning Av Finlands
Triangelnat, Part I, II, 1956, pp 1-27; 1-35.

ACSI I-3404
ID 2246295

Sociological

Identity and Reality, by Emile Meyerson.
FRENCH, bk, 495 pp.

Dover Pub House

Biographic

Pierre Curie, by Marie Curie.
FRENCH, bk, 118 pp.

Dover Pub House

AFRICA

Economic

Industrial Property Rights Law of Somali Republic, 12 pp.
FRENCH, rpt, Encl No 1 to Desp A-285, AmlEmbassy,
Mogadiscio.

Dept of State

Industrialization of the Region of Bizerte in
Tunisia, 10 pp.
FRENCH, np, l'Action 11 Dec 1963, pp 2, 4; 12 Dec 1963,
p 4; 14 Dec 1963, p 5.

JPRS 22937

Cameroun's Railways, by Henri Hamel, 13 pp.
FRENCH, per, Industries et Travaux d'Outremer,
No 116, 1963, pp 644-649. (Call No HC 79 142 No 116,
Eng Tr)

Army Map Service

Nigeria's Railways, 5 pp.
FRENCH, per, Industries et Travaux d'Outremer,
No 116, 1963, pp 667, 668. (Call No HC279 142, No 116,
Eng Tr)

Army Map Service

Growth of Petroleum Production in Algeria, 7 pp.
FRENCH, np, An Nasr, 21, 22 Nov, p 6; 23 Nov, p 8;
26, 27 Nov p 6, 1963.

JPRS 22801

1963 Achievements in Sahara Province, 6 pp.
SPANISH, np, Sahara, No 30, 5 Jan 1964, pp 4, 5, 8.

JPRS 23052

Africa
Political

Africans in Moscow, by Wolfgang Leonhard, 5 pp.
GERMAN, np, Die Zeit, 10 Jan 1964, p 4. JPRS 23105

Geographic

Current Improvements of the Port of Casablanca,
11 pp.
FRENCH, np, La Vie Economique, 8 Nov 1963, pp 1, 6. JPRS 22937

Description of Spanish Sahara, by Musafir, 9 pp.
SPANISH, per, Sahara, 15 Dec 1963, pp 9, 16. JPRS 23052

Sociological

Tunisia's Social Economic, and Political
Situation After Seven Years Independence, 14 pp.
FRENCH, per, La Voix du Peuple, pp 2-5. JPRS 23502

Return to the People, 5 pp.
FRENCH, per, La Voix du Peuple, pp 6, 7. JPRS 23502

MIDDLE EAST

Economic

- Egypt Opens New Iron and Steel Complex at Hilwan,
8 pp.
ARABIC, np, Al-Akhbar, 12 Jan 1964, pp 4, 5. JPRS 23192
- Four Important Resolutions on Foreign Currency,
Imports, and Exports, by George Tu'meh, 6 pp.
ARABIC, np, Ath-Thawrah, Vol I, No 188, 7 Jan 1964,
pp 1, 7. JPRS 23127
- Texts of the Four Resolutions Issued by the Syrian
Minister of Economy, by George Tu'meh, 13 pp.
ARABIC, np, Ath-Thawrah, Vol I, No 188, 7 Jan 1964,
pp 5, 7. JPRS 23192
- Tahal to Start Sewage Water Purification Project,
by Yair Kotler, 5 pp.
HEBREW, np, Haaretz, 29 Nov 1963, p 9. JPRS 22806
- Strikes by Professional Workers, by Haim Tibon,
6 pp.
HEBREW, np, Kol Haam, 22 Nov 1963, p 2. JPRS 23091
- Commercial Agreements Between Iran and Poland,
Czechoslovakia, and Hungary, 39 pp.
PERSIAN, rpt, Encl No 143 to Desp A-388, AmEmbassy,
Tehran. Dept of State
- Ship Salvaging, 8 pp.
TURKISH, per, Deniz, No 7, 1963, USNA, Ankara,
Turkey. Navy 5898054463(1)

Political

- A Communist-Oriented View of Arab Socialism, by
Ahmad Al-Nabulusi, 6 pp.
ARABIC, np, al-Akhbar, 22 Dec 1963, p 7. JPRS 22841
- The Aleppo Riot.
ARABIC, per, El-Jundi, No 581, 27 Nov 1962, pp 1-35. *ACSI I-2749
ID 2204002764
- Selected Articles From the Hebrew Newspaper
Kol Haam.
- 22 Nov 1963, pp 2, 7. JPRS 23091
Recent Changes in the Military Government Regime
in Israel, by Yitshak Ben, 9 pp.
- 12 Dec 1963, pp 1-4. JPRS 22991
Proceedings and Resolutions of the 12th Plenary
Session of the Central Committee of the Israeli
Communist Party, 11 pp.

Middle East
Political (Contd)

Selected Articles From the Hebrew Newspaper
Kol Haam. (Contd)

- 13 Dec 1963, pp 2, 7. JPRS 22991
Friendship Between Israel and the Soviet Union,
by Ruth Lubich, 7 pp.
- 15 Dec 1963, pp 1, 4. JPRS 22991
The Convention of the Friendship Movement With
the Soviet Union, 11 pp.
- 16 Dec 1963, pp 1, 2, 4. JPRS 22991
Soviet Delegation and the Israel Soviet Union
Friendship Convention, 9 pp.

Sociological

- Ancient and Medieval Science, by Rene Taton.
ARABIC, bk, Vol I, 552 pp. Basic Books
- Reactions to Zionism, Assimilation, Immigration,
and Soviet Jewry, by Gideon Spiro, 7 pp.
HEBREW, np, Kol Haam, 22 Nov 1963, p 7. JPRS 23091
- Argument on the Character of Zionism, 15 pp.
HEBREW, np, Kol Haam, 22 Nov 1963, pp 2, 7. JPRS 23091

FAR EAST

Economic

- The Experiences With Prefabricated Housing in the
Democratic Peoples Republic of Korea, by
Li Shou-k'ung, 19 pp.
CHINESE, per, Chien-chu Hsueh-pao, No 10, 1963,
pp 22-29. JPRS 22808
- Selected Articles From the Chinese Periodical
Ching-chi Yen-chiu, No 11, 17 Nov 1963. JPRS 22946
- Cooperation Through Integration in Industrial
Production, by Fan Mu-han, 12 pp, (pp 1-6).
- On Light Industry and Its Assistance to
Agriculture, by Shih Ching-hsing, 15 pp, (pp 7-14).

**Far East
Economic (Contd)**

**Selected Articles From the Chinese Periodical
Ching-chi Yen-chiu, No 11, 17 Nov 1963. (Contd)**

JPRS 22964

On the Question of the Indications and Forms of Expanded Agricultural Reproduction, by Su Lien, 28 pp, (pp 15-25).

Some Problems of the Economic Benefits of Agricultural Production, by Chou Ch'eng, 17 pp, (pp 26-36).

Proportionality in Socialist Reproduction Under Varying Means of Expanded Reproduction, by Tung Fu-jeng, 29 pp, (pp 37-50).

Determining Personnel Norms in Industrial Enterprises, by Hsia Kuang-ch'uan, 8 pp.
CHINESE, per, Lao-tung, No 6, 1963, pp 16-19.

JPRS 23157

A Journey to North Vietnam, by Marcel Giuglaris, 20 pp.
GERMAN, per, Konkret, Dec 1963, pp 11-14.

JPRS 22920

A Study on the Biting of Skipjack in the Live-Bait Fishery. Part I. Relation Between the Biting and the Alimentary Canal in the Tohoku Sea Area, by Hideyuki Hotta, Teiji Kariya.
JAPANESE, per, Bulletin of the Tohoku Regional Fisheries Research Laboratory, No 13, 1959, pp 60-78.

Dept of Interior
SI211 E62 No 513

The Future Plan of the Japan Telegraph and Telephone Public Corporation, by Asano, Toshio, 13 pp.
JAPANESE, per, Dempa Jiho, No 9, 1963, pp 14-17. (Eng Tr)

Army Map Service

The Present Situation of International Meteorological Communication and Problems, by Imazata, Aizu, 15 pp.
JAPANESE, per, Dempa Jiho, No 9, 1963, pp 31-35.
(Eng Tr)

Army Map Service

Surfactants in Pulp Industries, by Hiroshi Fujii, Shigeo Tokunaga, 17 pp.
JAPANESE, per, Karoido to Kaimen-Kassezai, Vol 11, 1960, pp 685-691.

AEC-Tr-6050

Updated Ministerial Ordinance Concerning Procedure of Remittance Under the Provisions of the Law Concerning Foreign Investment, 9 pp.
KOREAN, rpt, Encl No 1 to Desy A-692, AmEmbassy, Tokyo.

Dept of State

Let Us Form a Strong Fodder Base for the Purpose of Developing Our Livestock Industry, by Cho'n T'ae Hwan, 7 pp.
KOREAN, np, Nedong Sinmun, 1 Dec 1963, p 6.

JPRS 23215

Far East
Economic (Contd)

- Let Us Improve and Strengthen Procurement, by
Han Tao-yong, 6 pp.
KOREAN, np, Nodong Sinmun, 9 Dec 1963, p 2. JPRS 23026
- The Great Upsurgence of the Building of Socialism and
and the Total Technological Reform Movement, by
O Tung Uk, 9 pp.
KOREAN, np, Nodong Sinmun, 10 Dec 1963, p 2. JPRS 23215
- Successful Accomplishments of the Main Tasks in
1964 Demands Renovation of Basic Construction, by
Kim Tu-sam, 5 pp.
KOREAN, np, Minju Choson, 15 Dec 1963, p 2. JPRS 23215
- Selected Articles From the Mongolian Periodical
Ediyn Dzasag Erhiyn Asuudal, No 5, 1963. JPRS 23014
- The Economic Significance of the 1963 Population
Census, by D. Batsuh, 5 pp, (pp 9-13).
- Industrial Plants Must Be Managed With Economic
Efficiency, by B. Jam'yan, 5 pp, (pp 14-19).
- Present Goals of the Mechanized Livestock Breeding
Stations, by S. Gombodoo, 5 pp, (pp 20-24).
- Some Characteristics of the Origin and Development
of the Socialist Property in the MPR and Its
Future Development Trends, by S. Dzandan, 6 pp,
(pp 31-35)
- Actively Carry Out the Revolutionary Measures for
Solving the Foodstuff Problem, by Nghiem Xuan Yem,
7 pp.
VIETNAMESE, per, Hoc Tap, No 646, 15 Nov 1963, p 2. JPRS 23050
- Production Protection in Factories and At Construc-
tion Sites, by Nguyen Dam, 10 pp.
VIETNAMESE, per, Hoc Tap, No 12, 1963. JPRS 23101
- On the Prevention and Extermination of Insects,
Diseases, and Rats, 8 pp.
VIETNAMESE, per, Khoa Hoc Ky Thuat Nong Nghiep,
No 10, 1 Sep 1963, pp 33-36. JPRS 22920

**Far East
Economic (Contd)**

**Selected Articles From the Vietnamese Newspaper
Nghien-cuu Kinh-te.**

No 16, Aug 1963.

Lowering Costs in Capital Construction, by
Phan Khue, Quang Huy, 19 pp, (pp 3-12).

JPRS 22958

Creating and Developing Local Industry, by
Le Duc Binh, 20 pp, (pp 13-22).

How Important is Motor Transportation in North
Vietnam, by Nguyen Kha, 21 pp, (pp 23-32).

Selected Economic Statistics Industrial Production
1955-1962, 3 pp, (pp 77-80).

No 17, Oct 1963.

Local Industries Produce Commodities for Domestic
Consumption, by Bui Quang Hai, 21 pp, (pp 11-19).

JPRS 23035

Positive Measures for Economization in Farm Pro-
duction, by Nguyen Huu To, 16 pp, (pp 20-25).

The Collective Economy and the State Plan, by
Vu Quoc Tuan, 15 pp, (pp 37-44).

Set Up Purchasing and Selling Cooperatives in
Communities, by Thien Ly, 14 pp, (pp 50-56).

A Study of the Balance of Labor Force in 1962-1963
of a Highland Province, by Tran Dang Van, 6 pp,
(pp 64-66)

Profitable Operation of Hoa Rong Blast Furnace
Enterprise After Incurring Losses, by Van Ngoc,
7 pp, (pp 66-68).

Wholesale Price of Capital Goods, by Nguyen Viet Thuan,
18 pp, (pp 70-76).

**Selected Articles From the Vietnamese Newspaper
Nhan Dan.**

11 Oct 1963, pp 1, 2.

Farming in Thai Binh Province, by Nguyen Xuan Tuan,
5 pp.

JPRS 22938

19 Oct 1963, pp 1, 2.

Chairman Ho Speaks on Progress in Ha Bac Province,
9 pp.

JPRS 22938

**Far East
Economic (Contd)**

**Selected Articles From the Vietnamese Newspaper
Nhan Dan. (Contd)**

- 3 Nov 1963, p 2. JPRS 22959
Ha Bac Party Committee Successfully Solves
Problem of Food and Increases Production of
Agricultural Products, by Thach Son, 9 pp.
- 8 Nov 1963, p 3; 9 Nov 1963, p 3. JPRS 22938
New Procurement Prices to Bolster Production,
by Doan Trong Truyen, 5 pp.
- 11 Nov 1963, p 2. JPRS 22938
Irrigation At Tan An, by Nguyen Sinh, 5 pp.
- 13 Nov 1963, p 2. JPRS 22938
Distribution of Income in Agricultural Coopera-
tives for the 1963, Tenth-Month Crop, 7 pp.
- 14 Nov 1963, p 3. JPRS 22938
Quality Improvement at Viet-Tri Paper Plant, by
Nguyen Chinh, 6 pp.
- 15 Nov 1963, pp 1, 2; 16 Nov 1963, p 2. JPRS 22938
Successful Time Reduction At Dai Do-Tang My
Irrigation Project, by Luu Dong, 13 pp.
- 16 Nov 1963, pp 1, 4. JPRS 22938
Government Council Directives Concerning
1963-1964 Winter Spring Production Crops, 11 pp.
- 21 Nov 1963, p 2. JPRS 22898
Shortcomings in the Management and Development of
the Dan Hoai Irrigation Project, by Giung Hai,
Le Dinh Quy, 8 pp.
- 26 Nov 1963, pp 1, 2. JPRS 22898
Competition for Increasing Agricultural Production,
11 pp.
- 30 Nov 1963, p 2. JPRS 22920
Some Ideas On Assigning Cooperative Members to
Raise Pigs, by Le Du, 5 pp.
- 1 Dec 1963. JPRS 23050
Make Full Use and Develop New Sources of Organic
Fertilizer, by Duong Hong Hien, 7 pp, (p 2).

**Far East
Economic (Contd)**

**Selected Articles From the Vietnamese Newspaper
Nhan Dan. (Contd)**

- 1 Dec 1963. JPRS 23050
Respect and Protect Public Properties, by
Nguyen Dam, 5 pp, (p 2).
- 2 Dec 1963, p 2. JPRS 22971
The Progress of Lo Hong Phong Cooperative, by
Truc Thanh, Huu Duc, 6 pp.
- 6 Dec 1963, p 2. JPRS 23050
Nghi An Expands Peanut Growing Area and Output
of Peanuts, by Nguyen Si Que, 5 pp.
- 7 Dec 1963, p 2. JPRS 22971
Peanut Acreage and Production Can Be Increased,
by Dang Phu, 5 pp.
- 8 Dec 1963, p 3. JPRS 22971
The Struggle is Continuing to Improve All Phases
of Production, by Ha Hoa, 14 pp.
- 9 Dec 1963, p 2. JPRS 22971
To Step Up the Planting of Mulberries, Raising
Silkworms, and Unwinding of Silkworm Cocoons, by
Tran Quy, 7 pp.
- 10 Dec 1963. JPRS 23050
Fruit Trees Important in Economy of North, by
Bui Cong Trung, 5 pp, (p 2).
- Yen-La Village No Longer Distills Rice Wine,
6 pp, (p 2).
- 11 Dec 1963. JPRS 23050
Sugar Cane - The Main Industrial Plant of Ha-Nam
Province, by Tran Doan, 7 pp, (p 2).
- The First Official Standards for Mechanical Branch,
by Hoang Manh Tuan, 5 pp, (p 3).
- The Haiphong Industries and the Technical Equip-
ment for Agriculture, by Do Hanh, 6 pp, (p 3).
- 12 Dec 1963. JPRS 23050
Careful Cultivation to Increase Sugar Cane Output,
by Thai Nghia, 6 pp, (p 2).
- Labor Protection in Factories and Workshops, by
Nguyen Dam, 5 pp, (p 2).

Far East
Economics (Contd)

New Geologic Map Drawn to 1:500,000 Scale, by
Le Van Cu. 5 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, No 11,
1963, pp 6-9.

JPRS 23146

Political

Selected Articles From the Chinese Periodical
Chen-fu Yen-chiu, No 2, 5 May 1963.

JPRS 22998

On the Question of Socialist Revolution in the
Political and Ideological Front of Our Country,
by Ch'eng Hsiao-ho, 11 pp, (pp1-5).

On the System of Democratic Centralism in the
Rural People's Commune, by Hsieh Hsiang-huang,
15 pp, (pp 7-12).

The Idea of the People's Democratic Dictatorship
in Report on Investigations of the Peasant Move-
ment in Hunan, by Chang Hsi-p'o, 9 pp, (pp 13-17).

Correctly Recognizing the Class Struggle in the
Socialist Period, by Liu Hu-ping, 12 pp, (pp 18-23).

Defining the Two Types of Contradictions in Political-
Legal Work and the Two Methods of Handling Them, by
Hao Chin-ch'ing, 12 pp, (pp 25-30).

The Law Department of Peking University Held Its
Annual Scientific Discussion Meeting, 64 pp, (p 30).

Selected Articles From the Chinese Periodical
Hung-ch'i.

No 22, 19 Nov 1963, pp 1-18.
Two Different Lines on the Question of War and
Peace: Comment on the Open Letter of the Central
Committee of the CPSU, No 5, 18 pp.

JPRS 22657

No 23, 12 Dec 1963.
Modern Bourgeois Neo-Realism, by Jen Hsu, 12 pp.

JPRS 23075

Peaceful Coexistence--Two Diametrically Opposed
Policies, 30 pp.

The Truth About the Contention for the Congo Between
Old and New Colonialists, by Yuan-wen, 13 pp,
(pp 30-37).

**Far East
Political (Contd)**

- Chinese Government Has Trouble in Sinkiang, by Boris Litvinoff, 7 pp.
FRENCH, per, Est & Ouest, No 310, 1-15 Dec 1963, pp 24-27. JPRS 22877
- The Chinese Position and Problems of the Transition, by Livio Maitan, 17 pp.
FRENCH, per, Quatrieme Internationale, No 20, Nov 1963, pp 12-22. JPRS 22680
- Japanese Communist Party Refuses to Support Tost Ban Treaty That is Not Complete and Unconditional, 13 pp.
JAPANESE, np, Akahata, 21 Nov 1963, p 5. JPRS 22813
- Japanese Communist Official Warns Against Rightist Machinations, by Kaeko Mitsuhiro, 5 pp.
JAPANESE, np, Akahata, 26 Nov 1963, p 5. JPRS 22680
- Japanese Communist Party Adopts Conciliatory Tone, Calls for Adherence to Marxism-Leninism and 1957 and 1960 Moscow Documents, by Seichi Ishida, 5 pp.
JAPANESE, np, Akahata, 3 Dec 1963, p 2. JPRS 22708
- Japanese Sinologist Niijima Analyzes the Dispute, by Niijima Atsuyoshi, 12 pp.
JAPANESE, per, The Chuokoron, Dec 1963, pp 122-129. JPRS 22779
- In the Mongolian People's Republic the People's Democracy is a Definite But Specific Form of Proletarian Dictatorship, by S. Norobsambuu, 7 pp.
MONGOLIAN, per, Ediy n Dzasag, Erhiyn Asuudal, No 5, 1963, pp 50-55. JPRS 23014
- Trade Union Organizations Take Part in Determining Legal Authority, by D. Tserenjab, 5 pp.
MONGOLIAN, per, Ediy n Dzasag, Erhiyn Asuudal, No 5, 1963, pp 56-60. JPRS 23014
- Selected Articles From the Mongolian Newspaper Unen. JPRS 22813
- 7 Nov 1963, pp 2, 3.
D. Maidar's Speech, by D. Maidar, 19 pp.
- 8 Nov 1963.
J. Sambuu's Speech, by M. Gursed, B. Jamd, et al, 7 pp. (pp 1, 2).

**Far East
Political (Contd)**

**Selected Articles From the Mongolian Newspaper
Unen. (Contd)**

JPRS 22813

8 Nov 1963.

D. Dandin's Article on the Revolution as a
Peace Force, by D. Dandin, 5 pp, (p 3).

3 Nov 1963, p 1.

Mongolian Communist Party Organ Praises Soviet
Socialism and Peaceful Coexistence, 5 pp.

Good Thought Reorientation in Party Organization of
Haiphong, by To Thion, 6 pp.

VIETNAMESE, np, Nhan Dan, 16 Oct 1963, p 2.

JPRS 22939

Report of the Standing Committee to the Second
National Assembly, by Ton Quang Phiot, 18 pp.

VIETNAMESE, np, Nhan Dan, 29 Oct 1963, pp 1, 2.

JPRS 22939

Improvement of Organization and Style of Work, by
Le Tat Duc, 6 pp.

VIETNAMESE, np, Nhan Dan, 12 Nov 1963, p 3.

JPRS 22939

Military

The Strengthening of National Defense and Socialist
Construction and Advantages of Militarization,
106 pp.

CHINESE, monograph, Chung-kuo Kuo-fang Shuang-shu,
Peiping, 1956, pp 1-54.

JPRS 22800

United States Imperialists Certain To Be Completely
Defeated in South Vietnam, by Hong Chuong, 8 pp.

VIETNAMESE, np, Hoc Tap, No 12, 1963.

JPRS 22874

Military Reserve Conference Stresses the Need for
Economy in Building the Army, 5 pp.

VIETNAMESE, np, Quan Doi Nhan Dan, No 1285,
26 Nov 1963, p 1.

JPRS 23027

**Far East
Sociological**

On the Function and Task of Our Nation's Marriage Law, by Yang Ta-wen, Liu Su-ping, 10 pp. CHINESE, per, Cheng-fa Yen-chiu, No 2, 5 May 1963, pp 38-42.

JPRS 22998

**Selected Articles From the Chinese Periodical
Hung-ch'i.**

No 22, 19 Nov 1963.

JPRS 22660

Cultural Aggression of United States Imperialism in Foreign Countries, by Wang Fang, 11 pp.

Organization and Management Work in Science and Technology, by Ch'ien Hsueh-sen, 16 pp, (pp 19-27).

Some Points Concerning Research To Be Carried Out Jointly by Agronomists and the Masses, by Yu Ch'i-pao, 9 pp, (pp 28-33).

In the Country of the So-Called Born Free, by Ch'en Yuan, 8 pp, (pp 34-38).

No 23, 12 Dec 1963.

JPRS 23075

The Historical Mission of Credit Cooperatives in China at the Present Stage, by Teng Tzu-hui, 18 pp.

**Selected Articles From the Indonesian Newspaper
Harian Rakjat.**

3 Dec 1963, p 2; 4 Dec 1963, pp 1, 2.

JPRS 22809

Speech by the Chairman of the All Indonesia Central Labor Organization, 7 pp.

18 Dec 1963, p 2; 19 Dec 1963, p 2.

JPRS 22970

The Indonesian Press at the Present Time, by Djawoto, 5 pp.

23 Dec 1963.

JPRS 22970

Changing the Economic Regulations of 26 May, 5 pp, (p 3).

The System of Agricultural Training Must Be Based on the Interests of the Peasants, by Djadi Wirosubroto, 5 pp, (p 3).

New Law Regarding the Authority of the Mongolian People's Republic Budget, by N. Baasanjab, 5 pp. MONGOLIAN, per, Ediyn Dzasag, Erhiyn Asuudal, No 5, 1963, pp 45-49.

JPRS 23014

Far East
Sociological (Contd)

- Housing Rights Under the Civil Code of the Mongolian People's Republic, by D. Horhoi, 7 pp.
MONGOLIAN, per, Ediyn Dzasag, Erhiyn Asuudal, No 5, 1963, pp 61-68. JPRS 23014
- Clarification of Popular School Goal, by Truong Thi, 7 pp.
VIETNAMESE, np, Nhan Dan, 6 Dec 1963, p 3. JPRS 23027
- When Socialist Thinking Has Not Achieved Its Supremacy, by Thach Son, 5 pp.
VIETNAMESE, np, Nhan Dan, 8 Dec 1963, p 2. JPRS 22973
- Heighten Our Determination to Struggle and Step Up Socialist Revolution and Women's Movement in the North, by Phan Van Dong, 7 pp.
VIETNAMESE, per, Phu Nu Viet Nam, No 11, 1963. JPRS 23098
- Let Us Raise Our Struggling Spirit To Speed Up the Socialist Revolution and the Women's Movement in the North, by Pham Van Dong, 6 pp.
VIETNAMESE, per, Phu Nu Viet Nam, No 11, 1963, pp 3-5. JPRS 22973
- Revolution of Vietnam Labor Youth Group Concerning Duties in First Five-Year Plan, 38 pp.
VIETNAMESE, np, Tien Phong, 8 Nov 1963, pp 1-3. JPRS 23027

LATIN AMERICA

Economic

Inflation and Monopoly in Brazil, by Alberto Guimaraes.
(DC-10260)

PORTUGUESE, bk, Inflacao e Monopolio no Brasil,
1963, pp 1-181.

*JPRS

The Automobile Industry and the Domestic Market,
by Oswaldo Benjamin de Azevedo, 26 pp.
PORTUGUESE, per, Carta Mensal, No 101, 1963, pp 3-18.
(Call No F2501 C32 No 101, Eng Tr)

Army Map Service

Hydraulic Resources, by Rene Llinas, 6 pp.
SPANISH, np, Bohemia, 3 Jan 1964, pp 38-41.

JPRS 23208

A New Telephonic Achievement Every Thirty-Five Days,
9 pp.

SPANISH, per, Compania de Telefonos de Chile, 1962,
pp 3-5; 14-21. (Eng Tr)

Army Map Service

Observations and Analyses of the 1964 Investment
Plan Control Figures, 18 pp.
SPANISH, per, Nuestra Industria Econ, No 4, Dec 1963,
pp 24-42.

JPRS 22999

Commentary On the Law Regulating the Budget System
of Financing State Enterprises, by Felipe Garcia Carabia,
41 pp.

SPANISH, per, Nuestra Industria Econ, No 4, Dec 1963,
p 43-84.

JPRS 22999

Progressive Stages in the International Telegraph
Service, 8 pp.
SPANISH, per, Teleinformativo, No 10, 1962, pp 4-7.
(Call No DIA, Eng Tr)

Army Map Service

Political

History of the Cuba Crises, by Andre Fontaine.
FRENCH, np, Le Monde, Nov 1962.

Rand Corp
RM-3078-PR

From Cuba to Berlin, by Hansjakob Stehle.
GERMAN, np, Frankfurter Allgemeine Zeitung, Nov 1962.

Rand Corp
RM-3078-PR

Bill to Establish Three Zones in Costa Rica
Unanimously Approved by Legislative Committee, 8 pp.
SPANISH, rpt, 23 Nov 1963, Encl to Desn A-255,
Ambassador, San Jose.

Dept of State

Latin America
Political (Contd)

Italian Leftist Paul Baran Analyzes the Great Debate,
by Paul A. Baran, 9 pp.
SPANISH, np, Epoca, 21 Nov 1963, p 2; 22 Nov 1963,
pp 2, 5.

JPRS 22708

Galeano Interviews Chou En-lai, by Eduardo Galeano,
Chou En-lai, 5 pp.
SPANISH, np, Marcha, 13 Dec 1963, pp 1, 15.

JPRS 22813

Chilean Communist Party Denounces Dissident
Activities, Expels Seven, 10 pp.
SPANISH, per, Principios, Nov, Dec 1963, pp 130-144.

JPRS 22708

Sociological

Current Attitudes and Opinions of Cuban Youth, by
Gustavo Torroella, 14 pp.
SPANISH, per, Bohemia, 20 Dec 1963, pp 46-49;
27 Dec 1963, pp 90-92.

JPRS 23118

WORLD WIDE

Economic

United Nations Conference on Trade and Development,
by A. Okhotin, V. Yulin, 10 pp.
RUSSIAN, per, Vneshnaya Torgovlya, No 12, 1963,
pp 19-22.

JPRS 23147

International Socialist Division of Labor,
by O. Bogotolov, 18 pp.
RUSSIAN, per, Voprosy Ekon, No 11, 1963, pp 3-14.

JPRS 23147

SCIENTIFIC

Aerospace

- Flight Safety, by I. G. Rabkin, 171 pp.
 RUSSIAN, bk, Bezopasnost' Poletov, Moscow, 1962,
 pp 1-135. 9691068-V FTD-TT-63-637
- Gas Turbines of Airplane Engines, by
 Georgiy Sergeyevich Zhiritskiy. (SF-3007)
 RUSSIAN, bk, Gazovyye Turbiny Avitsionnykh
 Dvigatelye, 1963, 608 pp. *JPRS
- New Investigations in Outer Space, by
 I. B. Faynboym, 27 pp.
 RUSSIAN, bk, Novyye Issledovaniya v Kosmose, Moscow,
 1963, pp 3-31. JPRS 23195
- Flight-Navigation Instruments: Instrument Flying,
 The Piloting of a Plane by Instruments, by
 V. G. Denisov, R. N. Lopatin, 123 pp.
 RUSSIAN, bk, Pilotazhno-Navigatsionnyye Pribory,
 O Pilotirovani Samoleta po Priboram, Moscow,
 1962, pp 1-111. 9691061-V FTD-TT-63-636
- The Universe Has Come Closer, by A. Blagonravov,
 6 pp.
 RUSSIAN, per, Aviats i Kosmonavt, No 10, 1963,
 pp 8-12. JPRS 23062
- In Order to Become an Astronaut, by V. Parin,
 G. Titov, et al. 9 pp.
 RUSSIAN, per, Aviats i Kosmonavt, No 10, 1963,
 pp 15-19. JPRS 23062
- The Daily Life of the Star Man, by V. Gubarov, 7 pp.
 RUSSIAN, np, Kosmosol Pravda, 16 June, 1963, p 4.
 9690497. FTD-TT-63-1072
- Khrushchev and Pokrovskiy on the Global Rocket.
 RUSSIAN, np, Pravda, Ogonek, Mar 1962. Rand Corp
 RM-3078-PR
- A Year After the First Flight, by Yu. Volynkin,
 V. Denisov, 6 pp.
 RUSSIAN, np, Trud, 12 Apr, 1962, pp 1, 2. 9690457 FTD-TT-63-1045
- The Development of the Terraplane Glider, Lecture
 by Mr. Bertin at the 23rd Flight Mechanics Panel
 Meeting.
 FRENCH, rpt, Le Developpement des Aeroglisseurs
 Terraplane, Conference de M. Bertin au 23eme
 Flight Mechanics Panel Meeting, 8 Jul 1963, pp 1-9. *ACSI I-3968
 ID 2204001964

Scientific
Aerospace (Contd)

From Military Kites to Guided Reconnaissance Drones,
33 pp.

FRENCH, per, Air and Space, No 790, Dec 1962,
pp 19-28.

Navy Tr 3702
ONI 976

Air Transport at Speeds of 2,330 Kilometers
Per Hour in 1973, by Constantin Sabin Ioan, 8 pp.
ROMANIAN, per, Stinta si Tehnica, No 12, 1963,
pp 26-29.

JPRS 22986

Agriculture

Corn Selection, 16 pp.

RUSSIAN, bk, Spravochnik po Kukuruze, Moscow, 1962,
pp 260-278.

JPRS 23163

The Planning of Kolkhos and Sovkhoz Production, 32 pp.
RUSSIAN, np, Ekon Gazeta, No 47, Nov 1963, pp 3-16.

JPRS 25067

Rural Economic Work in Grodnenskaya Oblast, 6 pp.
RUSSIAN, np, Ekon Gazeta, No 1, 14 Jan 1964, p 18.

JPRS 23313

Farming Conditions and Methods, 14 pp.
RUSSIAN, np, Ekon Gazeta, No 2, 11 Jan 1964, pp 8-13.

JPRS 23313

The Effective Use of Mineral Fertilizers, by
N. Baranov, 12 pp.
RUSSIAN, per, Ekon Sel'skogo Khoz, No 11, 1963,
pp 25-35.

JPRS 23067

USSR Timber Resources, by G. Taraskevich, 6 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1963, pp 85-89.

JPRS 23067

Selected Articles From the Russian Periodical
Konservnaya i Ovoshchesushil Prom.

GB/96

Vol XV, No 12, 1960, pp 16-18.

On Suitable Working Conditions for the Packing
of Tomato Pulp in Large Tinplate Containers, by
M. S. Mordkovich.

Vol XVII, No 5, 1962, pp 27-30.

New Methods of Examining the Oxidative Spoilage
of Fats in Food Concentrates, by K. A. Stepankov.

Vol XVII, No 9, 1962, pp 37-39.

Bacterial Spoilage of Canned Fish in Tomato Sauce,
by E. I. Kostrova, N. V. Bogdanova.

Vol XVII, No 12, 1962, pp 29-31.

Change in the Tina and Iron Content of Canned
Vegetables During Storage, by E. I. Solov'yeva.

**Scientific
Agriculture (Contd)**

- Comprehensive Mechanization: Basis of Agricultural Development**, by N. N. Levykin, 13 pp.
RUSSIAN, per, Mekh i Elek, No 5, 1963, pp 1-6. JPRS 23067
- Chemization and Further Upsurge in Ukrainian Agriculture**, by A. Koval, 9 pp.
RUSSIAN, np, Pravda, 25 Nov 1963, p 2. JPRS 23067
- Chemistry in Agriculture**, by N. Sisakyan, 6 pp.
RUSSIAN, np, Pravda, 9 Dec 1963. JPRS 22831
- Farm Production in Irkutskaya Oblast**, by S. Shchotin, 5 pp.
RUSSIAN, np, Pravda, 20 Jan 1964, p 2. JPRS 23313
- Cotton Cultivation in the Uzbek SSR**, 5 pp.
RUSSIAN, np, Pravda Vostoka, 29 Oct 1963, p 1. JPRS 23067
- Selected Articles From the Russian Periodical Vinodeliye i Vinograd SSSR.**
- Vol VIII, No 215, 1962.
Fruits and Berries as Wine Material in White Russia, by M. Golomshtok, D. Shapiro, (pp 21-23). CSIRO/No 6407
- Turkmenistan to Become a Centre of Production of Table Grapes and Raisins**, by A. Solovyev, (pp 24-26). CSIRO/No 6413
- Some Problems of Viticulture on Irrigated Mountain Slopes**, by F. Bashirov, (pp 30-37). CSIRO/No 6410
- Raising the Yield of Grapes and Lowering Production Costs**, by K. Zhikharev, (pp 47-49). CSIRO/No 6411
- Vol I, No 216, 1963, pp 37-39.
Development of the Root System of the Grapevine in Soils of Different Density, by V. Gabovich. CSIRO/No 6485
- The Welfare of Cooperative Farmers is Rising**, by Atanas Dimitrov, 10 pp.
BULGARIAN, per, Selskostopanska Nauka, No 10, Nov 1963, pp 1187-1195. JPRS 23081
- The Character and Reasons for Damage to Wheat and Barley in North Eastern Bulgaria in the Winter of 1961-1962**, by Angel Tsenov, Todor Penev, et al, 14 pp.
BULGARIAN, per, Selskostopanska Nauka, No 10, Nov 1963, pp 1212, 1222. JPRS 23081
- Procedure for the Production of Starch From Grain**, 11 pp.
DUTCH, Patent No 72,449, Dec 1952. OTS 63-14515

**Scientific
Agriculture (Contd)**

- On the Causes of Soil Compaction in the Furrow Bottom and How to Avoid It, by H. Sack.
GERMAN, per, Grundlagen der Landtechnik, No 15, 1962, pp 5-10. GB/141/129
- Methods for the Quantitative Determination of Cycasin, 15 pp.
JAPANESE, per, Bulletin Kagoshima Japan University Faculty Agriculture, Vol V, 1956, pp 118-126. NIII 11-28-63
- The Applicability of the Japanese Experience in Agriculture, by Ishikawa Shigeru, 25 pp.
JAPANESE, per, Keizai Kenkyu, Vol XIV, No 2, Apr 1963, pp 114-122. JPRS 22936
- Observations Concerning Structural Changes in Agriculture, by Ryszard Wielburski, 20 pp.
POLISH, per, Postepy Nauk Rolniczych, Vol X, No 4, Jul, Aug 1963, pp 3-20. JPRS 23339
- Reserves for Balancing the Effects of a Poor Harvest, by Wiktor Herer, 13 pp.
POLISH, per, Zycie Gospodarcze, No 51, 52, 22-29 Dec 1963, pp 1, 9. JPRS 23004
- An Important Means of Efficient Distribution of Agricultural Production, by C. Papacostea, C. Ratiu, 20 pp.
RUMANIAN, per, Probleme Economice, Vol XVI, No 11, 1963, pp 54-70. JPRS 22871
- Selected Articles From the Serbocroatian Periodical Arhiv za Poljoprivredne Nauke, Vol XV, No 49, 1962. OTS 62-11755/3
PL-480
- The Effect of the Size and Form in Salting Kackaval Cheese, by I. Vukicic, 12 pp, (pp 3-14).
- The Effect of Tethering, Versus Loose Housing of Young Fattening Stock on Live Weight Gain and Food Conversion With Castration and Hydroxyzine Are Used, by S. Bacvanski, T. Cobic, 12 pp, (pp 15-27).
- Walnut Selection in Vojvodina, by M. Rudic, 12 pp, (pp 28-38).
- Experiments in Tea Growing on the Montenegrin Sea Coast and in the Basin of Lake Skadar, by M. Ulicovic, 20 pp, (pp 39-59).
- Investigations of the Agricultural Value of the Meadows in Sjenicko Polje, by S. Ocokoljic, D. Colic, 20 pp, (pp 60-80).

Scientific
Agriculture (Contd)

Selected Articles From the Serbocroatian Periodical
Arhiv za Poljoprivredne Nauke, Vol XV, No 49, 1962.
(Contd)

OTS 62-11755/3
PL-480

Pasture Vegetation on the Visocica in Hercegovina,
by B. Korica, 14 pp, (pp 81-95).

A Contribution to the Study of the Root System of
the Gooseberry, by M. Tesic, 10 pp, (pp 96-106).

The Value of Certain Tobacco Varieties Cultivated
Under the Same Ecological Conditions, by
Lj. Tomic, A. Demin, 10 pp, (pp 107-116).

The Content of Biogenic Trace Elements in the
Grasses of Lonjsko Polje, by I. Balzer, Z. Galeta,
8 pp, (pp 117-124).

An Attempt to Introduce Tachina Achaetonoura Aletiae
Riley, a Parasite of the Webworm, From the United
States of America to Yugoslavia, by P. Bjegovic,
8 pp, (pp 125-131).

A Contribution to the Study of Indigenous Populations
of Common Wheat, Triticum Vulgare Vill. in P. R. Bosnia
and Hercegovina, by S. Lomejko, 15 pp.

SERBOCROATIAN, per, Radovi Naucnog Drustva Bosne i
Hercegovine, Sarajevo, Vol V, No 1, 1955, pp 131-141. 9218584

OTS 60-21693
PL-480

Growth Ring Width as a Factor in the Quality of
Fraxinus Angustifolia Wood, by R. Benic, 18 pp.

SERBOCROATIAN, per, Sumarstvo Forestry, Vol VIII,
No 9, 1955, pp 534-545. 9218587

OTS 0-21639
PL-480

Biological & Medical Sciences

Fauna of Russia and Adjacent Countries; Reptiles,
by A. M. Nikol'skiy, 352 pp.
RUSSIAN, bk, Chelonia and Sauria, 1915.

OTS 63-11162
PL-480

Effect of Ionizing Radiations on Plants, by
I. M. Vasil'yev.

RUSSIAN, bk, Doistvie Ioniziruyushchikh Izlucheniina
Rastoniya Moscow, 1962.

AEC-Tr-5836

Defoliant and Dessicants.

RUSSIAN, bk, Defolianty i Desikanty, Moscow,
1963, 7 pp.

*USDA

Scientific
Biological & Medical Sciences (Contd)

- Electromyography of Human Skeletal Muscle Tone in the Normal and Pathological State, by Yudif Samoylovna Yusovich, 26 pp.
RUSSIAN, bk, Elektromiografiya Tonusa Skeletnoy Muskulatury Cheloveka v Norme i Patologii, Moscow, 1963, pp 109-129; 162. (Table of Contents & Conclusion). JPRS 22782
- Influence of Camellina Species on the Flax Yield, by H. Balschun, F. Jacob.
RUSSIAN, bk, Flora, No 151, 1961, pp 572-606. CSIRO/No 6222
- Studies in Medical and Diagnostic Use of Radioactive Isotopes, by V. I. Shantyr', 10 pp.
RUSSIAN, bk, Lechebnoye i Diagnosticheskoye Primeneniye Radioaktivnykh Izotopov, Kiev, 1963, pp 5-10; 256; 257. JPRS 23029
- New Development Trends in Modern Physiology, by N. A. Bernhteyn, 9 pp.
RUSSIAN, bk, Materialy Konferentsii po Metodam Fiziologicheskikh Issledovaniy Cheloveka, 1962. 9690504 ITO-TT-63-916
- Quantitative Methods of Investigating Human Muscular Tonus, by Ya. M. Kots, 7 pp.
RUSSIAN, bk, Materialy Konferentsii po Metodam Fiziologicheskikh Issledovaniy Cheloveka, 1962. 9690504 ITO-TT-63-916
- Analysis of Age-Conditioned Changes in the Activity of the Organism From the Standpoint of Autoregulation, by V. V. Frol'kis, 32 pp.
RUSSIAN, bk, Mekhanizmy Stareniya Kiev, 1963, pp 131-150. NIH 12-11-63
- Stress, Age and Adaptation, by V. V. Frol'kis, N. V. Svechnikova, 18 pp.
RUSSIAN, bk, Mekhanizmy Stareniya Kiev, 1963, pp 194-205. NIH 12-10-63
- Microbiological Investigation of Inland Reservoirs, by S. I. Kuznetsov, V. I. Romanenko, 169 pp.
RUSSIAN, bk, Mikrobiologicheskoye Issledeniye Vnutrennikh Vodoyemov, Moscow-Leningrad, 19 Feb 1963, pp 1-129. JPRS 22802
- Acute Radiation Injuries and Their Treatment, by I. M. Peltavets, F. F. Sinitsyna, 175 pp.
RUSSIAN, bk, Ostryye Radiatsionnyye Porazheniya i Ikh Lecheniye, 1962, pp 3-155. 9691475-V ITO-TT-63-610

Scientific
Biological & Medical Sciences (Contd)

- Parasitic Fauna of Freshwater Fish of the Ukrainian SSR, by A. P. Markevich, 387 pp.
RUSSIAN, bk, Parazitofauna Presnovodnykh Ryb USSR, 1951. OTS 63-11130
PI-480
- Primary Processes of Radiation Lesion, by B. N. Tarusov, 135 pp.
RUSSIAN, bk, Pervichnyye Protssesy Luchsvogo Porazheniya, Moscow, 1962, pp 1-96. 9691004-V FTD-TT-63-733
- Selected Articles From the Russian Book Primeneniye Matematicheskikh Metodov v Biologii II, Leningrad, 1963. JPRS 23244
- Third Conference on the Use of Mathematics in Biology, by P. V. Terent'yev, 9 pp, (pp 5-11).
- Statistical Verification of the Counting Method of Quantitative Analysis of Plankton Samples, by S. R. Vel'dre, 10 pp, (pp 124-131).
- Statistical Regularity in the Behavior of Fish, by A. I. Zonov, V. V. Gulin, 8 pp, (pp 140-145).
- Parameters Characterizing the Level of Energy Metabolism of Animals, by V. S. Ivlev, 8 pp, (pp 146-151).
- Mathematical Theory of Marking, by O. M. Kalinin, 12 pp, (pp 161-169):
- Aerial Counting of Moose in the Moscow Oblast and Verification of the Results by the Methods of Mathematical Statistics, by Yu. A. Gerasimov, 7 pp, (pp 234-238).
- Natural Foci of Human Infections, by E. N. Pavlovskiy, 201 pp.
RUSSIAN, bk, Prirodnoochagovye Bolezni Cheloveka, Moscow, 1960. OTS 63-11069
PI-480
- Injuries to the Skull and Brain in Acute Radiation Sickness, by N. N. Aleksandrov, S. V. Ryzhkov, 311 pp.
RUSSIAN, bk, Raneniya Cherepa i Golovnogo Mozga Pri Ostroy Luchevoj Bolezni, 1962, pp 1-175. 9691003-V FTD-TT-63-581
- Toxicology of Organic Phosphorus Insecticides and Industrial Hygiene During Their Use, by Yu. S. Kagan, 5 pp.
RUSSIAN, bk, Toksikologiya Fosfororganicheskikh Insektitsidov i Gigyena Truda pri ikh Primenenii, Moscow, 1963, pp 287-291; 326. JPRS 23168

Scientific
Biological & Medical Sciences (Contd)

- Military-Field Surgery, by K. I. Pikin,
N. K. Matyumin, et al, 6 pp.
RUSSIAN, bk, Voyenno-Polevaya Khirurgiya, Vol XCI,
No 7, 1963, pp 141-143. JPRS 23079
- On Karyokinesis of Neurons and Regeneration of
Cerebral Cortex in Adult Rats After Mechanical
Injury, by N. F. Kastrikin, 6 pp.
RUSSIAN, per, Arkhiv Anatom, Gistol i Embriol,
Vol XLI, No 7, 1961, pp 54-57. NIH 11-1-63
- The Effect of G-Force on the Structure of the
Vascular System, by M. G. Prives, 15 pp.
RUSSIAN, per, Arkhiv Anatom, Gistol i Embriol,
Vol XLV, No 11, 1963, pp 3-13. JPRS 22956
- Investigation of Nuclear Structures of Frog
Oocytes, by P. V. Makarov, 14 pp.
RUSSIAN, per, Arkhiv Anatom, Gistol i Embriol,
Vol XLV, No 11, 1963, pp 453-461. JPRS 22955
- Problems in Protecting Human Beings From Radiation
in Space, by Ye. S. Matusevich, S. G. Tsylin, 11 pp.
RUSSIAN, per, Atomnaya Energi, Vol XV, No 6, Dec 1963,
pp 499-504. JPRS 23306
- Review of the Book Plant Physiology From the Standpoint
of Microbiology, by P. A. Genkel', 5 pp.
RUSSIAN, per, Botan Zhur, Vol XLVIII, No 12, 1963,
pp 1839-1840. JPRS 23094
- Fott's Textbook on Algology and Problems Connected
With a Soviet Survey on Algae, by M. M. Bollerbakh,
V. L. Komarov, 8 pp.
RUSSIAN, per, Botan Zhur, Vol XLVIII, No 12, 1963,
pp 1841-1844. JPRS 23095
- Discussion of Three Soviet Books on Geobotany, by
A. S. Karpenko, 7 pp.
RUSSIAN, per, Botan Zhur, Vol XLVIII, No 12, 1963,
pp 1857-1860. JPRS 23096
- Physiological Reactions of the Human Organism
During the Action of Accelerations, Maximum in
Time and Intensity, Directed Along the Spinebreast
Axis, by A. A. Barer, G. A. Golov, 11 pp.
RUSSIAN, per, Byul Eksper Biol i Medit, No 7,
1963, pp 24-29. 9690499 FTD-TT-63-1095

Scientific
Biological & Medical Sciences (Contd)

- Investigation of Catecholamines in Various Organs of Dogs Under Conditions of Deep Hypothermia, by Ye. P. Stopanyan, V. A. Bukharin, 11 pp.
RUSSIAN, per, Byul Ekspor Biol i Medit, No 9, 1963, pp 56-60. 9691071 FTD-TT-63-1096
- Study of the Part Played by Fungi in the Suffocation Process of Beech Wood, by B. Flerov.
RUSSIAN, per, Byul Moskov Obshch Ispytateley Prirody, Otdel Biologi, Vol LXVII, No 3, 1962, pp 82-93. CSIRO/No 6487
- The Distribution of the Steppe Pika in the Aral Region, by V. K. Garbuzov, M. N. Shilov, 9 pp.
RUSSIAN, per, Byul Moskov Obshch Ispytateley Prirody, Otdel Biolog, Vol LXVIII, No 4, Jul, Aug 1963, pp 37-43. JPRS 22818
- The Activities of the Aral Section of the Moscow Society of Naturalists in 1962, 5 pp.
RUSSIAN, per, Byul Moskov Obshch Ispytateley Prirody Otdel Biolog, Vol LXVIII, No 4, Jul, Aug 1963, pp 152-154. JPRS 22818
- Luminescent Microscope Examination of Normal and Tumoral Cells Fluorochromized With Acridine Orange at Different pH Values, by N. Ye. Vorotnitskaya, A. V. Zelenin, et al, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLII, No 3, 21 Sep 1963, pp 724-726. JPRS 23298
- Temperature Dependence of Luminescent Bacterioviridin and its State in Photosynthetic Bacteria, by A. A. Krasnovskiy, Yu. Ye. Yerokhin, et al, 7 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLII, No 5, 1963, pp 1231-1234. JPRS 23054
- Discrimination of Form of Objects by Children of Early Age, by L. A. Venger, 12 pp.
RUSSIAN, per, Dok Ak Pedagogicheskikh Nauk RSFSR, No 2, 1962, pp 75-80. NIH 12-9-63
- Prospects of the Use of Optical Quantum Oscillators in Biology and Medicine, by A. A. Vishnevskiy, S. N. Braynes, 6 pp.
RUSSIAN, per, Eksper Khir i Anesteziol, No 6, 1963, pp 3-5. JPRS 22994
- The Effect of Certain Cholinolytic Agents and Tranquilizers on the Duration of Nicotine and Arecoline Induced Spasms in Rabbits, by Z. Votava, 15 pp.
RUSSIAN, per, Farmakol i Toksikol, No 3, 1962, pp 291-297. K-H 12447

Scientific

Biological & Medical Sciences (Contd)

Analyzing the Effect of Physical Load, High Temperature of the Medium and Higher Oxygen Content in Inhaled Air on the Excitability of Human Visual Analyzer, by A. O. Navakatikyan, V. V. Lobodeva, 13 pp.
RUSSIAN, per, Fiz Zhur SSSR, imeni I. M. Sechenov, Vol XLIX, No 9, 1963, pp 1036-1043. 9690498

FTD-TT-63-980

Selected Articles From the Russian Periodical Gig i San.

Vol XXVIII, No 10, 1963.

Hygienic Problems in the Radioactive Contamination of Outer Space, 6 pp, (pp 3-7).

JPRS 23284

Comparative Evaluation of the Effectiveness of Bacteria Collectors in Determining Bacterial Aerosol Concentration, by V. S. Kiktenko, S. I. Kudryavtsev, et al, 7 pp, (pp 45-48).

JPRS 23283

Effectiveness of Biological Methods of Purifying Industrial Sewage From Enterprises Engaged in Organic Synthesis, by A. A. Styazhkina, 3 pp, (pp 52-57).

JPRS 23282

Temperature Reaction of the Skin During Irradiation With Micro-Waves of Low Intensity, by Yu. A. Osipov, T. V. Kalyada, 10 pp, (pp 73-78).

JPRS 23287

Vol XXVIII, No 12, 1963.

The Problem of the Condition of the Cardiovascular System in People Working With Radioactive Luminous Compounds, by L. G. Tsonterova, 7 pp, (pp 42-46).

JPRS 23224

Draft Regulations for Protection Against Sea Pollution, by S. N. Cherkinskiy, D. N. Loranskiy, 6 pp, (pp 62-65).

JPRS 23341

Problems of Biogeochemistry in Radiation Hygiene, by V. V. Koval'skiy, V. I. Baranov, et al, 9 pp, (pp 81-86).

JPRS 23224

Dermacentor Ticks as Vectors of Bacterium Pestis Under Experimental Conditions, by P. A. Polulyakh, R. V. Gishenyuk.

RUSSIAN, per, Iz Ak Nauk Kirgizskoy SSR, Ser Biol Nauk, Vol IV, No 4, 1962, pp 65-69.

*USDA

**Scientific
Biological & Medical Sciences (Contd)**

- Bioelectric Activity of Skeletal Musculature Under Conditions of Intermittent Effect of Overloads and Weightlessness**, by Yo. M. Yuganov, I. I. Kas'yan, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 5, 1963, pp 746-754. 9690496 FTD-TT-63-1052
- The Nature of Micronecrotic Foci of Hemopoietic Organs of Animals Exposed to Radiation**, by M. N. Meysel, V. M. Manteyfol, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 6, 1963, pp 871-878. JPRS 22915
- Imponderability and Artificial Gravitation**, by I. I. Kas'yan, V. I. Kopanov.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 6, 1963, pp 880-891. *FTD-TT-64-140
- N. I. Pirogov's Opinions About the System of Medical Education**, by S. S. Mikhaylov, I. I. Kagan, 11 pp.
RUSSIAN, per, Khirurgiya, Vol XXXIX, No 2, 1963, pp 144-148. NIH 12-14-63
- A New Trend in the Study of Regeneration**, by L. Polezhayev, 9 pp.
RUSSIAN, np, Medit Gazeta, 11 Oct 1963, p 3. JPRS 23299
- Service to Life**, by A. Aleksandrov, 6 pp.
RUSSIAN, np, Medit Gazeta, 29 Oct 1963, p 3. JPRS 23218
- The Choice of the Basic Parameter for the Standardization and Classification of the Housings of Electronic Medical Equipment and Apparatus**, by Ye. L. Vayner, 7 pp.
RUSSIAN, per, Medit Prom SSSR, No 11, 1963, pp 5-10. JPRS 23167
- Dosimetric Methods in Microwave and Decimeter-Wave Therapy**, by A. R. Livenson, 9 pp.
RUSSIAN, per, Medit Prom SSSR, No 11, 1963, pp 10-17. JPRS 23167
- Prospects for the Development of the Medical Instrument Manufacturing Industry in the USSR**, by P. V. Gusenkov, 8 pp.
RUSSIAN, per, Medit Prom SSSR, Vol XVII, No 12, 1963, pp 3-8. JPRS 23225

**Scientific
Biological & Medical Sciences (Contd)**

- Serviceability of Methods Worked Out by E. Hofmann for the Determination of Enzymes in the Soil, by D. Claus, K. Mechsner.**
RUSSIAN, per, Plant and Soil, Vol XII, No 2, 1960, pp 195-197. NZDIA
- Reliability of Methods for the Determination of the Activities of Soil Enzymes After E. Hofmann, by E. Hofmann, G. Hoffmann.**
RUSSIAN, per, Plant and Soil, Vol XVI, No 1, 1961, pp 96-99. NZDIA
- On the Border Between Two Oceans, by Yu. P. Zuytsov, 10 pp.**
RUSSIAN, per, Priroda, No 11, 1963, pp 27-31. JPRS 23331
- Relic of Nature of Exploitable Species?, by S. M. Marakov, 10 pp.**
RUSSIAN, per, Priroda, No 11, 1963, pp 79-83. JPRS 23331
- Adaptation of Young Coregonines of the Lena River, by V. V. Kuznetsov, Ye. N. Aleksandrova, 5 pp.**
RUSSIAN, per, Priroda, No 11, 1963, pp 106-108. JPRS 23331
- Quantitative Determination of Similarity Between Phytocoenoses, by V. Vasilevich.**
RUSSIAN, per, Problemy Botaniki, Vol VI, 1962, pp 83-94. CSIRO/No 6374
- On the History of Inter-Relationship Between the Nation's Blood Banks and the Military Medical Service, by A. S. Georgiyevskiy, O. K. Gavrilov, 6 pp.**
RUSSIAN, per, Problemy Gematologii i Perelivan Krovi, Vol IX, No 1, 1964, pp 44-46. JPRS 23288
- On the Role of Chronic Tubercular Intoxical in the Development of Leukopenia, by V. M. Voityuk.**
RUSSIAN, per, Problemy Tuberkuleza, Vol XXXIX, No 5, 1961, pp 105-110. *Navy/NMS
- Experience in Organizing a Thoracic Department in the Oshsk Oblast Tuberculosis Dispensary, by V. P. Dyskin, R. G. Bauer, et al, 5 pp.**
RUSSIAN, per, Sevet Zdravookh Kirgizii, No 4, 5, 1963, pp 104-107. JPRS 23218
- Antithyroid Therapy in Cardiac Failure Associated With Cardiosclerosis and Rheumatic Heart Disease, by I. A. Chernogorov, 9 pp.**
RUSSIAN, per, Terapev Arkhiv, Vol XXXIV, No 11, 1962, pp 19-24. OTS 63-23050

**Scientific
Biological & Medical Sciences (Contd)**

Contribution to the Clinical, Pathohistological, and Biochemical Picture of Acute, Subacute, and Exacerbated Forms of Myelomatous Disease, by S. B. Geiro, A. S. Mishchenko, 10 pp. RUSSIAN, per, Terapev Arkhiv, Vol XXXIV, No 12, 1962, pp 74-80. NIH 11-19-63

Effect of Compressing Wood on Its Resistance to Wood-Destroying Fungi, by G. Arzumanyan. RUSSIAN, per, Trudy Ak Nauk Armyanskoy SSR, Vol XXVIII, 1959, p 183-186. CSIRO/No 6381

Means of Increasing the Commercial Fish Stocks of the Ural-Caspian Region, by P. M. Konovalov, 14 pp. RUSSIAN, per, Trud Inst Ikhtiologii i Rybnogo Khoz Ak Nauk Kazak SSR, Vol IV, 1963, pp 3, 4. JPRS 23066

Human Chromosomal Diseases Disorders on the System of Sex Chromosomes, by A. A. Prokof'yeva-Bel'govskaya, 15 pp. RUSSIAN, per, Tsitologiya, Vol V, No 5, 1963, pp 485-498. JPRS 23019

Selected Articles From the Russian Periodical Vest Khirurgii, Vol XCI, No 11, 1963. JPRS 23122

Linear Mechanical Suture in Modern Surgery, by A. M. Geselevich, 5 pp, (pp 37-40).

Osteoplasty with Homografts Preserved in Paraffin, by N. N. Medvedova, 5 pp, (pp 76-79).

Freeze-Drying and Homografting of Bones, by P. P. Kovalenko, L. D. Perepochey, 8 pp, (pp 79-86).

The Use of Quatolon, by N. A. Dol'nikov, 5 pp, (pp 99-103).

Instruments for the Surgical Treatment of Burn Patients, by V. M. Burmistrov, 5 pp, (pp 123-128).

The Taking and Preservation of Endocrine Organs, by G. V. Golovin, A. M. Romanova, 8 pp, (pp 128-135).

The Preparation and Preservation of Bone Marrow for Clinical Purposes, by T. K. Mamysheva, 8 pp, (pp 145-149).

**Scientific
Biological & Medical Sciences (Contd)**

**Selected Articles From the Russian Periodical
Voprosy Ikhtiologii, Vol III, No 4, 1963.**

JPRS 23154

Dialectical Materialism -- The Methodological
Foundation of Fishery Biology, 10 pp. (pp 585-590).

Biological Principles for Mathematical Modeling
of Fish Population Dynamics, by G. V. Nikol'skiy,
32 pp, (pp 591-609).

One-Year Data on Abundance of Fish Stock, by
V. N. Lukashov, 15 pp, (pp 610-617).

Natural Reproduction of the Pink Salmon on the
Kola Peninsula, by S. P. Muntyan, 24 pp, (pp 675-687).

The Role of Vision in the Group Effect in Certain
Black Sea Fishes, by K. D. Alekseyeva, 12 pp,
(pp 726-733).

Natural Radioactivity of the Basic Food Fishes of
the Barents Sea, by A. F. Fedorov, N. I. Buyanov,
8 pp, (pp 734-737).

Tenth Scientific Conference on Inland Bodies of Water
of the Baltic Region, by P. I. Zhukov, V. P. Lyakhovich,
8 pp, (pp 758-761).

Session of Scientific Council of the Karelian Branch
of the Academy of Sciences USSR, by Yu. Ye. Lapin, 5 pp,
(pp 761, 762).

Comparative Nutritional Value of Meat Dehydrated by the
Method of Thermal Atmospheric Desiccation and by Sublimation,
by V. P. Karandayova, 7 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXII, No 6, 1963, ACSI 1-3920
pp 12-15. ID 2253821

Physiology of the Act of Attention, by V. I. Patrushev,
V. G. Zhukov, 8 pp.
RUSSIAN, per, Voprosy Psikholog, No 5, 1962, pp 70-74. JPRS 22892

The Nature of the Dermo-Optical Sense in Man, by
A. S. Novomeyskiy, 24 pp.
RUSSIAN, per, Voprosy Psikholog, Vol IX, No 5,
Sep, Oct 1963, pp 99-117. JPRS 23068

In the Bacteriological Seat of Infection, by
L. Dmitriyeva, 7 pp.
RUSSIAN, per, Voyennoye Znaniya, No 7, 1963, ACSI 1-3922
pp 34-36. ID 2253823

Scientific
Biological & Medical Sciences (Contd)

Selected Articles From the Russian Periodical
Zhur Mikrobiol, Epidemiol i Immunobiol.

*USDA

Vol XL, No 7, 1963.

Active Immunity Against Gas Gangrene in
Monkeys in Conditions of Radiation Action, by
E. K. Dzhikidze, et al, (pp 68-72)

The Use of Cricetulus Triton for the Study of
Immunogenic Properties of the Toxoids of
Wound Infection and Botulism, by L. M. Samorodov,
(pp 72-77).

Vol XL, No 8, 1963.

On the Nonspecific Character of Rapidly Originating
Resistance in Experimental Streptococcus and
Typhoid Infection, by T. A. Levina, (pp 49-53).

Ornithosis Outbreak at a Focal Plant in Kremets,
by V. T. Shugaylo, P. G. Zuenko, (pp 141, 142).

Vol XL, No 9, 1963.

A Study of Botulinum Toxoids. Communication 6
Botulinum Toxoid of the D Type, by A. A. Vorob'yev,
et al, (pp 87-92).

Detection of Plague and Tularemia Infection in
Rodents, by P. Kh. Yafayev, (pp 93-96).

Vol XL, No 10, 1963.

The Duration of Immunity Following Skin
Vaccination Against Plague, Tularemia and
Brucellosis, by S. L. Borod'ko, L. G. Samsonovich,
(pp 70-74).

Approbation of Improved Tularemia Diagnosticum,
by O. S. Buel'yanova, et al, (pp 85-92).

An Experimental Study of the Causative Agent of
the Rocky Mountain Spotted Fever, by S. M. Kulagin,
R. I. Kudelina, (pp 92-96).

Vol XL, No 11, 1963.

A Comparative Study of Vaccine and Virulent
Anthrax Strains in Tissue Cultures of the Human
Embryo, by N. N. Ginsburg, Yu. M. Fedotova, (pp 3-7).

Dry AKZH, Autolysate of Sprat, Gelatin, Medium for
the Diagnosis of Food Toxinfections Caused by Cl.
Botulinum and Perfringens, by L. G. Ivanova, et al,
(pp 111-114).

**Scientific
Biological & Medical Sciences (Contd)**

**Selected Articles From the Russian Periodical
Zhur Mikrobiol, Epidemiol i Immunobiol. (Contd)**

*USDA

Vol XI, No 11, 1963.

On the Changes of Conditions of Existence of the Natural Tularemia Focus in the Northern Area of the Volga-Akhtubinsk Flood Plain Area in Connection With the Construction of the Volgograd Hydroelectric Power Station, by N. G. Olsuf'yev, et al, (pp 127-132).

A Method of Accelerated Diagnosis of the Tularemia Causative Agent in Rodent Corpses, by A. I. Leont'yev, (p 146).

Current Views of the Reticular Formation and the Centrencephalic System, by D. Matoyev, 14 pp.
RUSSIAN, per, Zhur Vysshey Nerv Deyatel imeni I. P. Pavlova, Vol XIII, No 2, 1963, pp 243-254.

JPRS 23286

The Nature of the Effect of Noradrenalin on Conditioned-Reflex Activity When Injected Directly Into the Brain, by L. V. Kalyuzhnyy, 9 pp.
RUSSIAN, per, Zhur Vysshey Nerv Deyatel imeni I. P. Pavlova, Vol XIII, No 2, 1963, pp 309-315.

JPRS 23286

**Selected Articles From the Russian Periodical
Zool Zhur.**

No 8, 1960, pp 1169-1173.

Use of A. S. Monchudskiy's Bell in Field Testing the Effect of Repellents on Blood-Sucking Diptera, by V. M. Saf'yanova, 7 pp.

NIH 12-7-03

No 11, 1963.

Diurnal Course of the Intensity of Gas Metabolism in Cold-Blooded Animals, by G. G. Vinberg, Yu. S. Belyatskaya-Potayenko, 19 pp, (pp 1593-1600).

JPRS 23285

Downstream Descent and Diurnal Vertical Migrations of Benthic Invertebrates in the Amur, by O. A. Klyuchareva, 29 pp, (pp 1601-1612).

Radioactivity of Some Marine Animals of Feodosiyskiy Bay, by O. G. Mironov, 5 pp, (pp 1722-1724).

**Scientific
Biological & Medical Sciences (Contd)**

Biology and Cybernetics, by Aleksand'r Goranov, 15 pp.
BULGARIAN, per, Biologiya i Khim, Vol VI,
No 5, 1963, pp 1-8.

JPRS 22963

Comparative Study of Bacterial Wilt Organisms
of the Sweet Potato, by Liang Huang, Yu-hsin Ch'en.
CHINESE, per, Chih-wu Pao Hu Hsueh-pao, Vol I,
No 2, 1962, pp 75-84.

*FTD-TT-64-76

Selected Articles From the Czech Periodical
Ceskoslovenska Psychiatrie, Vol LIX, No 1, 1963.

Psychic Disturbances Following Closed
Craniocerebral Trauma, by A. Grodan, J. Modvecký,
(p 10).

*FTD-TT-64-56

Psychological Studies of Mentally Retarded or
Maldeveloped Children, by M. Dolejsi, (pp 11-19).

*FTD-TT-64-57

Preliminary Report About Psychoses Due to
Cycloserine, by J. Petrova, O. Topolcan,
(pp 20-23).

*FTD-TT-64-58

Oligophrenia in Laurence-Moon-Biedl-Bardet
Syndrome, by F. Krivak, (pp 24-27).

*FTD-TT-64-59

Psychotherapy of Sexual Neuroses, by K. Nedoma,
(pp 28-32).

*FTD-TT-64-60

Mental Health Care in Public Health Planning, by
B. Doubek, (pp 43-49).

*FTD-TT-64-61

Development of Psychiatric Practice in Europe,
by D. F. Buckle, (pp 49-58).

*FTD-TT-64-62

Docent Jan Prokop, MD, by Vondracek, (pp 59-60).

*FTD-TT-64-63

Concepts of Biological and Social in the Human
Psyche, by Milan Moravek, (pp 64-66).

*FTD-TT-64-64

Regarding Dr Strepanek's Comments on the
Discussion About the Natural and the Social in
the Human Psyche, by J. Beranek, V. Tlustý,
(pp 66-68).

*FTD-TT-64-65

Acute Tuberculos Sepsis, a Puzzling Diagnosis,
by W. J. Bruins Slot.

DUTCH, per, Nederlandsch Tijdschrift Voor
Geneeskunde, Vol CIV, 1960, pp 1975-1928.

*Navy/NMS

**Scientific
Biological & Medical Sciences (Contd)**

- Transpiration of Various Crops, by G. Makkink.
DUPCH, per, Nederlands Versl Tech Bijeenkomsten,
Vol I, No 6, 1952, pp 185-201. CSIRO/No 6402
- Study of a Heterogeneous Poisoning Method and Its
Practical Application, by R. Caizergues.
FRENCH, rpt, Karlsruhe Symposium on Criticality
Control, 1961. *AEC
- Health Problems of Algeria, 7 pp.
FRENCH, monograph, Documents Nord-Africains, No 537,
11 Oct 1963, pp 1-5. JPRS 22801
- Objective Evaluation of the Maturity of Tobacco
Leaves, by A. Ormandy.
FRENCH, rpt, Third World Tobacco Scientific Congress,
Salisbury, Paper 15, 1963, pp 1-10. CSIRO/No 6426
- Nephelometric Determination of Colistin, by
S. Leclercq, 7 pp.
FRENCH, per, Annales de Institut Pasteur, Vol C,
No 4, 77-83. SIA 63-16513
- Effects of Phosphorus 32 Disintegrations Incorporated
in Yeast *Saccharomyces Cerevisiae*. 1 - Induction of a
Mutation Resistant to the Lethal Effect of X-Rays, by
E. Moustacchi, H. Marcovich, 31 pp.
FRENCH, per, Annales de L'Institute Pasteur, Vol CIII,
1962, pp 841-865. NIH 12-13-63
- Hemagglutination by Certain Types of ECHO Viruses.
1 - Study on Some Properties of the Hemagglutinins,
by G. Gaudin, A. M. Barral, 22 pp.
FRENCH, per, Annales de L'Institut Pasteur, Vol CIV,
1963, pp 313-334. NIH 12-16-63
- Diagnosis and Possibility of Treatment of the
Sensorial State in Concomitant Strabismus by the
Use of Devices With Only Slight Dissociating
Effects, Test With Striated Glasses and Bar of Filters,
by B. Bagolini, 25 pp.
FRENCH, per, Annales d'Oculistique, Vol CXCIV, No 3,
1961, pp 236-358. NIH-11-6-63
- Statistical Assessment of the Biological Data on the
Early Detection of Occupational Lead Poisoning,
by H. Fautrol.
FRENCH, per, Arch. Maladies Profess., Med., Travail
et Securite Sociale, 1958, pp 5-20. *AEC

**Scientific
Biological & Medical Sciences (Contd)**

- Description of Apparatus, by C. D. Debouteville.
FRENCH, per, Biologie des eaux Souterraines
Littorales et Continentales, Paris 1960, pp 28-30. NZDIA
- Paper Electrophoresis Test for Ovulation, by
J. Vimoux.
FRENCH, per, Bulletin Fed Gyn Obstet Fr, Vol XV,
Jan-Mar 1963, pp 10-16. *Navy/NMS
- Renal Function and Renal Circulation in
Hypothermia, by C. F. Rothauge, et al, 5 pp.
FRENCH, per, Bulletin de la Societe internat de
Chir, Vol XIX, No 4, 1960, pp 393-397. Navy Tr 3707
NMS 841
- Varied Hemophagy and Reproductive Activity in
Aedes Aegypti L. and Aedes Albopictus Skuse,
by C. Toumanoff, 6 pp.
FRENCH, per, Bulletin de la Societe de Pathologie
Exotique, Vol XLII, 1949, pp 466-470. NIH 11-17-63
- Diagnosis of Idiopathic Stenoses of the Outflow
Chamber of the Left Ventricle, by F. Joly, 13 pp.
FRENCH, per, Coeur et Medicine Interne, Vol I,
No 4, 1962, pp 447-452. NIH 12-2-63
- Action of Insulin, Atropine and Amphetamine on the
Alimentary Behavior of the Rat, by A. Soulaïrac,
M. L. Soulaïrac, 5 pp.
FRENCH, per, Comptes Rendus Soc Biol, Vol CLIII,
No 12, 1959, pp 1962-1965. NIH 12-3-63
- Medical Evacuations by Air, by Poisvert, 39 pp.
FRENCH, per, Forces Aeriennes Francaises,
Aug, Sep, 1963, pp 221-256. Navy Tr 3704
ONI 973
- Oxidation of Essential Oils in Citrus-Fruit
Beverages in the Presence or Absence of Bioflavonoids,
by A. DiGiacomo; G. Rispoli.
FRENCH, per, Industria Conserve, Vol XXXVII, No 2,
1962, pp 107-109. CSIRO/No 6373
- Modifications of Alimentary Behavior of the Rat
Following Lesions of the Cerebral Cortex, by
A. Soulaïrac, 6 pp.
FRENCH, per, Journal de Physiologie, Vol XLIV,
1952, pp 323-326. NIH 11-27-63
- Intake of Water by the Rat During Prolonged
Inanition, by J. Le Magnen, 7 pp.
FRENCH, per, Journal de Physiologie, Vol XLVIII, 1956,
pp 608-612. NIH 11-15-63

**Scientific
Biological & Medical Sciences (Contd)**

- Colistin**, by Y. Chabbert, J. Monnier, et al, 8 pp.
FRENCH, per, Pathologie et Biologie, Vol IX,
No 21, 22, 1961, pp 2123-2125. SLA 63-16519
- Hinged Cuvette for Recording the CO₂-Gas Exchange of Leaves of Freely Growing Plants With an Infrared Absorption Recorder**, by O. Lange.
GERMAN, per, Berichte der Deutschen Botanischen Gesellschaft, Vol LXXV, 1962, pp 41-50. CSIRO/No 6403
- Treatment of Cysts, Tumors and Inflammatory Processes in Bones With the Kiel Bone Chips**, by Armin Bauermeister. 35 pp.
GERMAN, per, Beitrage zur Klinischen Chirurgie Bruns', Vol CCIII, No 3, 1961. Navy Tr 3706
NMS 840
- Are There Any Arteriovenous Anastomoses in the Kidneys**, by F. Hammersen, 15 pp.
GERMAN, per, Deutsche Medizinische Wochenschrift, Vol LXXXVII, 1962, pp 147-150. Navy Tr 3708
NMS 842
- Fresh Meats Vacuum-Packed in Plastics: A Study of Chemical and Bacteriological Changes in Pre-Packed Fresh Meats**, by H. F. Stockholm.
GERMAN, per, Fleischwirtschaft, Vol XV, No 2, 1963, pp 95-99. GB/96
- Electrometric Methods for Oxygen Studies in Water and Soil. Parts II and IV**, by S. Oden, J. Rennerfelt.
GERMAN, per, Grundforbattering, Vol III, 1962, pp 121-136, 150-178. CSIRO/No 6480
- Heart Attack and Nutrition - Recent Research Findings**, by H. Glatzel, 10 pp.
GERMAN, per, Max-Planck Institut fuer Ernahrungsphysiologie, Dortmund, Encl to Desp A-1082, Ambassy, Bonn. Dept of State
- Collapse in Bathing, Swimming, Diving and jumping into Water**, by E. J. Klaus, 23 pp.
GERMAN, per, Die Medizinische Welt, Vol LXI, No 29, 30, 1961, pp 1493-1499. Navy Tr 3709
NMS 843
- Control of Singing of Females of Gomophocerus Rufus L. Acridinae by the Corpora Allata**, by W. Loher.
GERMAN, per, Naturwissenschaften, No 17, 1962, pp 406. NRC/Ref: C-4394

**Scientific
Biological & Medical Sciences (Contd)**

- Preservation of Milk Powder in France, by O. Schwarzko.
GERMAN, per, Neue Verpackung, No 3, 1963,
pp 252, 254, 255. GB/96
- Applanation Tonometry on a Prone Patient, by
G. Strobl.
GERMAN, per, Ophthalmologica, Vol CXLIV,
1962, pp 95-96. Navy Tr 3700
APL T904
- Determination of Paternity by Means of
Trennlogarithm, by Friedrich Keiter, 36 pp.
GERMAN, per, Theoretische Medizin, Vol XI, No 11,
1957, pp 537-551. NIH 11-4-63
- Insect Pathology and Microbiological Control
of Noxious Insects, by J. M. Franz.
GERMAN, per, Baschau, Vol LXIII, 1963, pp 91-93. NZDIA
- Rearing and Use of Blowflies for Plant Breeding,
by H. Van Der Gaag.
GERMAN, per, Zandebelangen, Vol IX, 1955, pp 233-236. CSIRO/No 6556
- Present Problems of Grassland Research and Management,
by E. Klapp.
GERMAN, per, Z fuer Acker- und Pflanzenbau, Vol CXVI,
No 8, 1963, pp 257-288. NZDIA
- Relationship Between Moisture Content of Stored
Products, Atmospheric Humidity and Mite Infestation,
by W. Knulle.
GERMAN, per, Z fuer Angewandte Entomologie, Vol LI,
No 3, 1963, pp 300-312. GB/52
- Family and Relationship Structures, by Loffler,
G. Lorenz, 8 pp.
GERMAN, per, Z fuer Ethnologie, Vol LXXXVII, No 2,
1963, pp 203-208. NIH 12-4-63
- Noise and Learning - Studies on the Role of the
Activation Level in Learning, by Hans Hormann, 5 pp.
GERMAN, per, Z fuer Experimentelle und Angewandte
Psychologie, Vol VII, No 3, 1960, pp 422-426. NIH 12-12-63
- Studies Regarding the Possibility of Growing the
Virus of Myeloid Leukemia of the Mouse in A Tissue
Culture, by A. Graffi, L. Baumbach, et al, 19 pp.
GERMAN, per, Z fuer Krebsforschung, Vol LXV, 1963,
pp 385-395. AEC-Tr-6161

**Scientific
Biological & Medical Sciences (Contd)**

- Cutaneous Ridge Patterns of the Toe Pads and the Complexity Index, by F. Keiter, 18 pp.
GERMAN, per, Z fuer Morphologie und Anthropologie, Vol XLII, 1950, pp 169-183. NIII 12-20-63
- Systematic Classification and Phylogenetics of the Pentastomida, by Gunter Osche.
GERMAN, per, Z fuer Morphologie und Okologie der Tiere, Vol LII, 1963, pp 487-496. *Navy/NMS
- Origin Determination and Importance of Enzymes in the Soil, by E. Hofmann, G. Hoffmann.
GERMAN, per, Z fuer Pflanzenernahrung, Duengung, Bodenkunde, Vol LXVIII, 1955, pp 9-16. NZDIA
- Saccharase Content of the Soils Under the Influence of Various Factors of Soils Fertility, by E. Hofmann, K. Braeunlich.
GERMAN, per, Z fuer Pflanzenernahrung, Duengung und Bodenkunde, Vol LXVIII, 1955, pp 114-123. NZDIA
- A Contribution on the Origin of Abdominal Ectopy of the Heart, by J. Ruckes.
GERMAN, per, Zentralblatt fuer Allgemeine Pathologie und Pathologische Anatomie, Vol XCIV, No 8, 1955, pp 84-86. *Navy/NMS
- Psychopathology and Biochemistry of Experimental Psychoses Produced by Anticholinergic Hallucinogens, by H. Bultasova, S. Grof, et al, 11 pp.
HUNGARIAN, per, Idoggyogyaszati Szemle, Vol XIII, No 8, 1960, pp 225-234. JPRS 23296
- Difficulties in the Evaluation of Certain Childhood Personality Disturbances, by G. Kiss, et al.
HUNGARIAN, per, Magyar Tudomanyos Akademia Biologiai es Orvosi Tudomanyok Osztalyanak Közleményei, Vol XIV, No 1, 1963, pp 15-39. *FTD-TT-64-51
- Micronesian Desmidiacea, Biological Station, Otsu, by Hisanao Yamaguti.
JAPANESE, per, Japanese Journal of Limnology, Vol IX, No 2, 1939, pp 98-106. Dept of Interior
209(900)qUn34rr
No 739
- Treatment of Bacillary Dysentery With Colimycin's, by Shuichi Hayashi, Shunro Ando, et al, 9 pp.
JAPANESE, per, Nihon Densenbyo Gakkai Zasshi, Vol XXXII, No 6, 1958, pp 146-149. SLA 63-18032

Scientific
Biological & Medical Sciences (Contd)

- Experiments on Carcinogenesis With Tetramethyldiamino-benzophenone, by M. Harada, 6 pp.
JAPANESE, per, Osaka Igakkai Zasshi, Vol XXXVI, 1937, pp 955-958. NIH 12-19-63
- Cytological and Histochemical Study of the Oogenesis in Bombyx Mori L. Lepidoptera, by G. Colombo.
ITALIAN, per, Archivio Zoologico Italiano, Vol XLII, 1957, pp 309-347. CSIRO/No 6448
- Types of Cells of the Anterior Lobe of the Hypophysis of Cavy, by F. Della Corte, 9 pp.
ITALIAN, per, Atti Della Societa Peloritana di Scienze Fisiche Matematiche e Naturali, Vol VII, No 3-4, 1961, pp 399-407. NIH-11-12-63
- Biochemical Studies on Vi and O Antigens. Behavior of Some Enzymatic Systems in Vivo Through the Effect of These Antigens, by A. De Barbieri, M. E. Scevola, 11 pp.
ITALIAN, per, Bollettino Ist Sieroterap Milan, Vol XXXV, Nos 11-12, 1956, pp 1-7. NIH 11-26-63
- The Problem of the Oncospecific Phospholipid Malignolipin, Oncodiagnostic Value of the Search for This Substance in the Blood, by E. Albertini, R. Della Volpe, 27 pp.
ITALIAN, per, Minerva Medica, Vol LIII, No 38, 1962, pp 1466-1478. NIH 11-25-63
- A Clinical and Radiological Study of Plasmocytoma, by G. Dragoni, E. Salvini, 43 pp.
ITALIAN, per, Radiologia Medica, Vol XLIX, No 2, 1963, pp 97-126. NIH 11-13-63
- Study of the Neurological and Psychopathological Effects of a New Drug, J. B. 329 or Ditrin on the Psychoticmimetic Action in Depressed Patients, by F. Giberti, G. Roccatagliata, 13 pp.
ITALIAN, per, Sistema Nervosa, Vol XIII, 1961, pp 167-175. NIH 12-8-63
- Studies on Tyzzer's Disease of Mice, Isolation of the Pathogenic Organism, by A. Imai, 21 pp.
JAPANESE, rpt, Jui Chikusan Shinpo, No 291, 1960, pp 2265-2270. NIH 11-24-63
- Studies on Tyzzer's Disease of Mice, by A. Imai, 17 pp.
JAPANESE, rpt, Jui Chikusan Shinpo, No 292, 1960, pp 2325-2330. NIH 11-23-63

**Scientific
Biological & Medical Sciences (Contd)**

Several Properties of a Vocal Sound Pitch Observed From the Vibrations of the Tracheal Outer Wall, by Shizuo Hiki, 4 pp.
JAPANESE, per, Acoustical Society of Japan, 1961.
9218854

Emmanuel Coll
Res Lang Ctr
E-T-J-63-5

The Wave Filtering Process of the Tracheal Outer Wall, by Riko Toshitaka Sugimoto, Shin-ichiro Hashimoto, et al, 6 pp.
JAPANESE, per, Acoustical Society of Japan, 1962.
9218849

Emmanuel Coll
Res Lang Ctr
E-T-J-63-6

Studies on Antimicrobial Action of Oxidized Fish Oil - IV. On the Mode of Antimicrobial Action of Oxidized Fish Oil and The Reversal Substances, by Masemichi Toyonizu.
JAPANESE, per, Bulletin of the Japanese Society of Scientific Fisheries, Vol XXVII, No 2, 1961, pp 182-187.

Dept of Interior
SH211 E82 No 14

Spontaneous Tumors in White Rats, by M. Arai, 8 pp.
JAPANESE, per, Gann, Vol XXXVII, 1940, pp 137-145.

NIH-11-7-63

An Abnormal Form of Orchid, by Takasi Tuyama.
JAPANESE, per, Journal of Japanese Botany, Vol XVII, No 7, 1941, p 429.

Dept of Interior
209(900)qUn34pr
No 736

Electron-Microscopic Studies on Stellate Organ of *Ascaris Lumbricoides*. Part I - Fine Structure of Stellate Organ, by T. Fukuda, 19 pp.
JAPANESE, per, Journal Kumamoto Medical Society, Vol XXXV, No 9, 1962, pp 889-907.

NIH 12-5-63

Experimental Tumors Induced by Administration of α - β - (p-Methoxyphenyl)- β , β -Diphenylacrylonitrile (Synthetic Estrogen) in Mice, by Ynsushige Tsujii, 40 pp.
JAPANESE, per, Nihon Naibumpi Gakkai Zasshi, Vol XXXIII, No 1, 1957, pp 53-83.

NIH 11-18-63

A Chemical Study of the Authenticity of Malignolipin, 14 pp.
JAPANESE, per, Nisshin, Igaku, Vol XLVII, 1960, pp 355-359.

NIH 11-20-63

Suppressive Effect on DAB-Carcinogenesis in Rats by Simultaneous Administration of Dimethylnitrosamino, by K. Kusano, 36 pp.
JAPANESE, per, Osaka University Medical Journal, Vol XI, No 11, 1959, pp 333-344.

NIH-11-9-63

**Scientific
Biological & Medical Sciences (Contd)**

Studies on the Sugar Cane, II. Experiments on Flowering of the Sugar Canes of the Island of Saipan, by Ihei Yamada, Kazuo Furusato.
JAPANESE, per, Seiken Zihō, No 1, 1942, pp 85-88.

Dept of Interior
209(900)qUn33pr
No 421

Materials on the Phytosociological Classification of Quercetalia Pubescentis Associations in Poland, by W. Matuszkiewicz.
POLISH, per, Acta Societatis Botanicorum Poloniae, Vol XXV, No 1, 1956, pp 25-65.

CSIRO/No 6321

National and International Medical Conferences to be Held in Rumania in 1964 and Rumanian Participation in Medical Conferences Abroad, 6 pp.
ROMANIAN, per, Fluncitorul Sanitar, Vol XV, No 2, 11 Jan 1964, p 4.

JPRS 23297

Methods of Assessment of the Quality of Meat, by I. Otol.
ROMANIAN, per, Standardizarea, No 4, 1963, pp 183-187.

NZDIA

Cybernetics and the Nervous System, by G. Caculianu, J. Sotirescu, et al, 16 pp.
ROMANIAN, per, Studii si Cercetari de Neurologie, Vol VIII, No 3, 1963, pp 325-335.

JPRS 23234

First Yugoslav Congress for Industrial Medicine, by Ljubisa Sabljic, 10 pp.
SERBIAN, per, Socijalna Politika, Vol XVIII, No 11, 1963, pp 1059-1066.

JPRS 23333

Selected Articles From the Serbocroatian Periodical Liječnicki Vjesnik.

Vol LXXXIV, No 9, 1962.
Psychological Problems and Psychopathological Conditions in Surgery, by N. Persic, 12 pp, (pp 863-873).

OTS 62-11763/9
PL-480

Changes in the Hemagglutination Titro in the Course of Rheumatoid Arthritis, by T. Durrigl, Lj. Mezulic, 11 pp, (pp 875-883).

Examination of the Placenta and Intervention in Case of Suspect Placenta, by E. Rosenzweig, C. Stojilkovic, 12 pp, (pp 889-899).

Bilharziasis, by B. Bezjak, Z. Kosutic, 10 pp, (pp 901-909).

**Scientific
Biological & Medical Sciences (Contd)**

**Selected Articles From the Serbocroatian Periodical
Liječnički Vjesnik. (Contd)**

Vol LXXXIV, No 9, 1962.
Accidents From Injections, by Z. Asperger,
20 pp, (pp 911-927).

OTS 62-11763/9
PL-480

Institutes of Public Health With the Function
of a Health Center, in Accordance With the Law
on Health Protection and Organization of the
Health Service, by D. Jurela, 5 pp, (pp 929-933).

Beginnings of Rehabilitation in Croatia, by
T. Durrigl, 5 pp, (pp 939-942).

Vol LXXXIV, No 10, 1962.
Cancer Control Program in Croatia, by
M. Spoljar, Z. Kulcar, 10 pp, (pp 985-993).

OTS 62-11763/10
PL-480

Typhus Fever on Brill's Disease, by J. Falisovac,
Z. Kosutic, 16 pp, (pp 995-1010).

Some Observations on the Problem of the Cervical
Rib Syndrome, by N. Popov, J. Belancic, 10 pp,
(pp 1011-1020).

Hereditary Elephantiasis, Nonne - Milroy - Meigs
Syndrome, by A. Gospodnetic, 7 pp, (pp 1021-1027).

Physician's Treatment of Acute Fear, by D. Blazovic,
9 pp, (pp 1029-1037).

Typhus - Endemic Quarantine Disease in Yugoslavia,
I. Vodopija, 5 pp, (pp 1039-1045).

Vol LXXXIV, No 11, 1962.
The Present Situation in Heart Surgery, by
M. Pasini, 16 pp, (pp 1099-1111).

OTS 62-11763/11
PL-480

Clinical and Laboratory Examinations of the
Liver in Chronic Alcoholism and Alcoholic
Psychoses - Contribution to the Study of the
Pathogenesis of Delirium Tremens, by N. Persic,
L. Kallai, 8 pp, (pp 1113-1120).

Report on an Epidemic of Parapertussis, by
B. Mravunac, N. Kohler-Kubelka, 5 pp, (pp 1121-1125).

Scientific
Biological & Medical Sciences (Contd)

Selected Articles From the Serbocroatian Periodical
Liječnički Vjesnik. (Contd)

Vol LXXXIV, No 11, 1962.
Premature Abruptio Placentae, by B. Zivkovic,
7 pp, (pp 1127-1133).

OTS 62-11763/11
PL-480

Thalassaemia Minima, by M. Premuzic, 7 pp,
(pp 1135-1140).

The Treatment of Some Endocrine Emergencies,
by V. Mikulicic, 10 pp, (pp 1145-1153).

Abruptio Placentae, by A. Drazancic, 8 pp,
(pp 1154-1158).

Vol LXXXIV, No 12, 1962.
Current Problems in Experimental Surgery, by
D. Juzbasic, 7 pp, (pp 1193-1199).

OTS 62-11763/12
PL-480

On the Regional Pathology of Hypothyroidism
in the Hrvatsko Primorje and in the Gorski
Kotar Regions, by B. Kopajtic, V. Svalba,
8 pp, (pp 1201-1207).

Epidemic of Typhoid Fever Spread by a Confectionery,
by A. Hrabar, I. Vodopija, 8 pp, (pp 1209-1216).

Pulmonary Changes in Visceral Leishmaniasis, by
P. Kacic, P. Miovic, 8 pp, (pp 1217-1224).

The Post-Myocard-Infarction-Syndrome, by
V. Kozul, 8 pp, (pp 1225-1232).

Venomous Animals, by Z. Margetic, 22 pp,
(pp 1233-1252).

Register of the Venetian Collegium of Physicians
1534-1554, Diocesan Archives, Hvar, Yugoslavia,
by M. D. Grmek, 5 pp, (pp 1253-1256).

Vol LXXXV, No 1, 1963.
Some Observations on the Epidemiology of
Arteriosclerosis in Yugoslavia, by S. Saric,
Z. Kulcar, 10 pp, (pp 5-13).

OTS 63-11458/1
PL-480

Our Experience in the Therapy of Malignant
Tumors of the Ovaries, by M. Basic, V. Kirhmajer,
7 pp, (pp 15-20).

Premature Birth as a Result of Pathological
Pregnancy, by M. Dekaris, 13 pp, (pp 25-36).

**Scientific
Biological & Medical Sciences (Contd)**

**Selected Articles From the Serbocroatian Periodical
Lijecnicki Vjesnik. (Contd)**

Vol LXXXV, No 1, 1963.

Vena Cava Superior Sinistra Persistens, by
I. Cizek, B. Mark, 6 pp, (pp 37-42).

OTS 63-11458/1
PL-480

Medical Emergencies Due to Hyperglycaemia and
Hypoglycaemia, by Z. Skrabalo, 16 pp, (pp 47-62).

Clinico - Pathological Conferences, by I. Mohacek,
7 pp, (pp 63-68).

Ketosis, by V. Mikulicic, 5 pp, (pp 69-71).

Tests on the Control of Foul-Brood, by I. Pobogajlo,
23 pp.

SERBOCROATIAN, per, Radovi Naucnog Drustva Bosne i
Hercegovine Sarajevo, Vol V, No 1, 1955, pp 205-221.
9218585

OTS 60-21687
PL-480

Black Pigmentation of Wheat Spikes and Its Effect
on the Vegetative and Biological Characteristics of
Certain Lines, by S. Lomejko, 22 pp.

SERBOCROATIAN, per, Radovi Naucnog Drustva Bosne i
Hercegovine Sarajevo, Vol XI, No 2, 1958, pp 75-95.
9218582

OTS 60-21694
PL-480

**Selected Articles From the Slovenian Book
Slovenska Akademija Znanosti in Umetnosti.**

1958.

Morphological, Taxonomical and Typological
Problems Concerning Echinocystis Lobata Michaux
Torrey and Gray, by V. Petkovsek, 38 pp.

OTS 61-11282
PL-480

1959.

Morphology, Biology and Zoogeography of
European Temnocephala and Their Systematic
Position, by J. Matjasic, 46 pp.

OTS 61-11244
PL-480

Vol V, 1959, pp 5-22. 9218583

Genus Woodsia R. Br. in Yugoslavia, by
E. Mayer, 16 pp.

OTS 61-11241
PL-480

Towards a Unitarian Theory of Human Behavior, by
Francisco T. Cantu Garza, 26 pp.

SPANISH, per, Revista Med, Vol IX, No 32,
1963, pp 5-18.

Navy Tr 3710
NMS 844

Scientific
Biological & Medical Sciences (Contd)

Some Remarks on the Hematogenic Form of Pulmonary Tuberculosis, by Leon L. Rodriguez, SPANISH, per, Rev Mex de Tuberc, Vol XIX, 1958, pp 160-173.

*Navy/NMS

Some Philosophical Problems of the Interrelationship of Physiology and Cybernetics, by O. F. Makarchenko, M. L. Gorbach, 12 pp. UKRAINIAN, per, Fiziol Zhur Ak Nauk Ukrain RSR, Vol IX, No 6, 1963, pp 707-715.

JPRS 23060

On the Influence of Low Concentrations of Light Acroions on the Cardiac Activity of Rabbits, by Yu. D. Dumans'kyy, 5 pp. UKRAINIAN, per, Fiziol Zhur Ak Nauk Ukrain RSR, Vol IX, No 6, 1963, pp 824-826.

JPRS 23059

**Scientific
Chemistry**

Welding Nickel and Its Alloys, by K. V. Bagryanskiy,
G. S. Kuz'min, 163 pp.
RUSSIAN, bk, Svarka Nikelya i Yego Splavov, Moscow,
1963, pp 1-164.

JPRS 22945

Physical Chemistry of Molten Salts and Slags, 604 pp.
RUSSIAN, bk, Trudy Vsesoyuznogo Soveshchaniya po
Fizicheskoi Khimii Rasplavlennykh Solei i Shlakov,
22-25 November 1960, Moscow, 1962. 9218737-V

AEC-Tr-5948

The Fluorescence Yield of Vapors and Solutions of
Substituted Phthalimides, by N. A. Borisevich,
V. V. Zelinskiy, et al, 6 pp.
RUSSIAN, per, Dok Ak Nauk, Vol XCIV, No 1, 1954,
pp 37-39.

OTS 63-10068

Pharmacology of the Symmetrical Bis-Quaternary
Derivatives of 9-Methyl-3, 9 Diazabicyclo-3,3,1 -
Nonane, by M. D. Mashkovskiy, B. A. Medvedev, 14 pp.
RUSSIAN, per, Farmakol i Toksikol, Vol XXIII, No 6,
1961, pp 493-499.

JPRS 23254

The Cholinolytic Activity and Physico-Chemical
Properties of Alkylaminoethyl Benzilates, by
S. G. Kuznetsov, S. N. Golikov, 13 pp.
RUSSIAN, per, Farmakol i Toksikol, Vol XXIV, No 3,
1963, pp 275-279.

JPRS 23254

A New Method for Complex Chemical Treatment of Plant
Tissues, by O. P. Golova, Ya. V. Epshtein, et al,
27 pp.
RUSSIAN, per, Gid i Lesokhim Prom, No 7, 1961, pp 4-8.

Patent Office

Technical Progress in the Chemical Industry of the
USSR and Labor Hygiene, by A. S. Arkhipov, 7 pp.
RUSSIAN, per, Gig Truda i Professional Zabol, No 11,
1963, pp 3-8.

JPRS 23045

Hygienic Characterization of Labor Conditions in the
Chlorophos Industry, by V. N. Trefilov, M. D. Skanavi,
5 pp.
RUSSIAN, per, Gig Truda i Professional Zabol, No 11,
1963, pp 41-43.

JPRS 23045

Changes in the Cerebral Bio-Electrical Activity in
Workers From the Effect of Mercury, by K. Kiryakov,
7 pp.
RUSSIAN, per, Gig Truda i Professional Zabol, No 11,
1963, pp 60-64.

JPRS 23045

Scientific
Chemistry (Contd)

- Role of Nucleonic Acids and Albumin in Induced Biosynthesis of Chlorophyll, by Yu. G. Molotkovskiy, V. F. Moryakova, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, No 5, 1963, pp 719-723. 9690496
FTD-TT-63-1052
- A Graphical Method of Calculating a Series of Continuously Operating Reactors, by G. N. Bogachov.
RUSSIAN, per, Khim Prom, No 4, 1962, pp 267-270.
CRL/T 1302
- Determining the Molecular Weight of Polyethylene-terephthalate From the Terminal Radicals, by S. P. Matveyeva, V. A. Nyagkov, 8 pp.
RUSSIAN, per, Khim Volokna, No 5, 1959, pp 18-21. 9217320
NASA TT F-191
- Chemistry in Detergents, 6 pp.
RUSSIAN, per, Nasloboyno Zhir Prom, No 11, 1963, pp 1-4.
JPRS 22906
- New Drugs for the Treatment of Diseases of the Central Nervous System, by S. S. Liberman, M. D. Mashkovskiy, 17 pp.
RUSSIAN, per, Medit Prom SSSR, Vol XIII, No 3, 1959, pp 6-13.
JPRS 23254
- Radiochemistry, 272 pp.
RUSSIAN, per, Radiokhimiya, Vol III, No 1, 2, 1961, pp 3-240.
AEC-Tr-4579
- Synthesis of Certain New Thiols and Their Acetyl Derivatives, by R. M. Lagidze, R. N. Akhvledyani, 5 pp.
RUSSIAN, per, Soobshch Ak Nauk Gruz SSR, Vol XXXI, No 3, Sep 1963, pp 577-581.
JPRS 22953
- Liquid Crystals, by A. Volkov, I. Christyakov, 7 pp.
RUSSIAN, per, Tekh Molodezhi, No 9, 1960, pp 22-23. 9690458
FTD-TT-63-958
- Physicochemical Analysis in Technology of Mineral Salts: System of Sodium Carbonate, Potassium Carbonate and Water at Low Temperatures, by S. S. Sinay, V. N. Khudyakov, 16 pp.
RUSSIAN, per, Trudy Gosudard Inst Prik Khim, Vol XXIII, 1935, pp 100-109.
OTS 63-18055
- Contemporary Problems in Crystallography
B. K. Vainshteyn, 18 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, Vol XXXIII, No 6, 1963, pp 31-38.
NLL Tr Bulletin
Vol V, No 12, 1963

Scientific
Chemistry (Contd)

- Adiabatic Calorimeter With Constant Heat Exchange for Measuring the Heats of Adsorption of Gases and Liquids, by A. V. Kiselev.
RUSSIAN, per, Zhur Fiz Khim, Vol XXIII, No 5, 1949, pp 577-594. CRL/T 1314
- On the Stability of Lower Valence Rare Earth Chlorides, by O. G. Polyachenok, G. I. Novikov, 13 pp.
RUSSIAN, per, Zhur Neorgan Khim, Vol VIII, 1963, pp 1567-1573. AEC-Tr-6157
- Electrochemical Reduction of Pyridine, by N. S. Drozdov, 11 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol III, No 3, 1933 pp 351-359. AEC-Tr-6097
- Synthesis of 2,5-Disubstituted Quinuclidines, by Ye. Ye. Mikhlina, V. Ya. Vorob'yeva, et al, 16 pp.
RUSSIAN, per, Zhur Obshch Khim, Vol XXXIII, No 12, 1963, pp 3852-3857. JPRS 23020
- Synthesis of Vitamin B1, by A. I. Gravin, 27 pp.
RUSSIAN, per, Zhur Prik Khim, Vol XVI, 1943, pp 105-117. AEC-NP-Tr-1052
- Process for the Production of New Disubstituted Amides, 6 pp.
AUSTRIAN, Patent No 168,059, 1951. OTS 62-15239
- Organic Quantitative Analyses. VII. A Fast Colorimetric Determination of Small Quantities of Sulfur in Organic and Inorganic Materials, by Miroslav Vecera, Antonin Spevak, 15 pp.
CZECH, per, Chemické Listy, Vol 1, 1956, p 308. K-H 9019
- Physical Properties of UO Crystals, by S. Aaelinck, 37 pp.
FRENCH, rpt. OTS 63-19978
- Diffusion of Active Iodine Through Water, With the Iodine Being Liberated in CO₂ Bubbles At High Temperature, by A. Barthoux, J. Coulaud, et al, 18 pp.
FRENCH, rpt, Saclay, June 1962. AEC-Tr-6144
- The Catalytic Oxidation with Air in Liquid Phase. 1. The Oxidation of Ethyl Benzene to Acetophenone, by Pinkernelle, Krenning, 18 pp.
GERMAN, monograph, 1941. OTS 63-16337

**Scientific
Chemistry (Contd)**

- Protection From Chemical War Materials, by
Karlheinz Lohs.
GERMAN, brochure, Der Schutz vor Chemischen
Kampfstoffen, 1960, 64 pp. *FTD-TT-64-92
- Analysis of High-Toxic Organic Phosphoric Acid
Esters, by K. H. Lohs, P. Franz, 9 pp.
GERMAN, per, Acta Chimica, Vol XXVI, No 1-4, 1961,
pp 451-458. JPRS 22943
- Kinetics in Calcium Oxide, by R. Lindner.
GERMAN, per, Acta Chemica Scandinavica, Vol VI,
1952, pp 468-474. CSIRO/No 6419
- About the Density of Carbon Dioxide in Solid
and Liquid Condition, by U. Behn, 10 pp.
GERMAN, per, Annalen der Physik, Vol III,
Ser 4, 1900, pp 733-743. SLA 63-16498
- Carbonisation of Substances Simulating Pit Coal,
by D. W. van Krevelen, H. W. Den Hartog.
GERMAN, per, Ironstoff-Chemie, Vol XLII, No 9,
1961, pp 287-290. *AERE-Harwell
- The Importance of Sigma-Phase Embrittlement in
Chromium and Chromium-Nickel Steels for Chemical
Plant, by K. Richard, Grete Petrich.
GERMAN, per, Chemie Ingenieur Technik, Vol XXXV,
No 1, 1963, pp 29-36. *RISI 3582
- The β -Form of N-Acetyl Glucosamine, by R. Kuhn,
F. Haber.
GERMAN, per, Chemische Berichte, Vol LXXXVI, 1953,
pp 722-724. CSIRO/No 6387
- Intracrystalline Swelling as the General Model for
Swelling Processes, by A. Weiss.
GERMAN, per, Chemische Berichte, Vol XCI, 1958,
pp 487-502. CSIRO/No 6354
- The Pyrolysis of Polynuclear Aromatic Hydrocarbons,
by Karl Friedrich Lang, Herbert Buffleb, et al.
GERMAN, per, Erdol und Kohle-Erdgas-Petrochemie,
Vol XVI, No 9, 1963, pp 944-946. *Dept of Interior
- Argon Determinations in Potassium Minerals - VIII.
An Approximation Method for Solving Diffusion
Problems, by E. G. Wraga.
GERMAN, per, Geochimica et Cosmochimica Acta,
Vol XXVI, 1962, pp 61-66. NZDIA

**Scientific
Chemistry (Contd)**

- Mechanism of the Erythrocyte Sedimentation, VIII
The Chemistry of the Proinhibitor, by
Fritz-Hermann Kayser.
GERMAN, per, Hoppe-Seyler's Zeitschrift fur Physiol
Chem, Vol CCCXXXI, 1963, pp 95-104. NIH 12-6-63
- Application of Gas-Liquid Chromatography in the
Preparation and Analysis of Surface-Active
Materials and Textile Accessories, by V. Vasilescu.
GERMAN, per, Journal fuer Praktische Chemie, Vol XV,
No 4, 1962, pp 192-205. *AERE-Harwell
- Application of β -Backscattering to the Determination
of Au, Ag, Sb, Zn, and Ca in Pharmaceutical Preparations,
by P. Schiller.
GERMAN, per, Kernenergie, Vol VI, 1963, pp 514-516. *AEC
- Growth of NaCl Spheres in Pure NaCl Solutions and
Under the Influence of Impurities, by R. Spödel.
GERMAN, per, Neues Jahrbuch fuer Mineralogie, No 4,
1961, pp 81-93. GB/39/Alk 586
- Uranium in the Human Organism, by Josef Hoffmann,
18 pp.
GERMAN, per, Wiener Klinische Wochenschrift, Vol LIV,
No 52, Dec 1941, pp 1055-1059. 9218746 AEC-Tr-6137
- Direct Complexometric Determination of Zirconium, by
A. Musil, M. Theis.
GERMAN, per, Z fuer Analytische Chemie, Vol CXLIV,
1955, pp 427-430. CSIRO/No 6443
- Kinetics of the Thermal Decomposition of Magnesium
and Calcium Carbonate, by L. Bachmann, E. Cremer.
GERMAN, per, Z fuer Anorganische und Allgemeine
Chemie, Vol CCCIX, No 1, 2, 1961, pp 65-70. CRL/T 1340
- Nitrosyl HNO Action on Ketonic Compounds, by
G. Di Maio, P. A. Tardella, 10 pp.
ITALIAN, per, Gazzetta Chimica Italiana, Vol XCI,
1961, pp 1124-1132. NIH 12-21-63
- Geochemical Study of Germanium.
JAPANESE, per, Journal of Chemical Society of
Japan, Vol LXXIII, No 8, 1952, pp 589-591;
Vol LXXIII, No 9, 1952, pp 677-679. Dept of Interior
209(900) qUn34pr
No 399, 735
- Method for Making Moldings or Fibers of Polyvinyl
Alcohol Series Highly Resistant to Hot Water,
by Kanogafuchi Boseki, Kabushiki Kaisha, 13 pp.
JAPANESE, Patent No 319,492. Patent Office

**Scientific
Chemistry (Contd)**

Methods for the Quantitative Determination of Detergents in Water and Sewage, by J. Mowacki, 23 pp. POLISH, per, Gaz Koda Technika Sanitarna, Vol XXXIII, No 9, 1959, pp 360-363. 9216050

AEC-NP-Tr-1049

**Selected Articles From the Serbocroatian Periodical
Glasnik Hemijskog Društva.**

Vol XXVII, No 4, 1962.

A Spectrophotometric Method for Rapid Determination of Molybdenum, by Jelica Misovic, Milena Jovanovic, 6 pp.

OTS 62-11757/4
PL-480

Contributions to Methacrylacetone Studies. I. Synthesis, by Djuro, R. Kosanovic, et al, 10 pp.

N-Benzoylphthalimide I. Reaction With Alcohols, by Ruza Borisavljevic, Rastko I. Hamuzic, 10 pp.

Chemical Investigation of Wheat, by Mihailo, Mihailovic, et al, 12 pp.

Vol XXVII, No 5, 6, 1962.

Statistical Quantum Interpretation of the Equilibrium Condition Between Liquid and Vapor Phases at Boiling Temperatures of Monoatomic Elements, by J. M. Zivojinov, 12 pp, (pp 241-252).

OTS 62-11757/5-6
PL-480

Current Efficiency in the Process of Electrolytic Hydrogenation of Germanium, by B. B. Djurkovic, 8 pp, (pp 255-261).

Derivative Polarographic Titration of Some Bases in Glacial Acetic Acid in the Presence of Quinhydrone, by Vilim Vajgand, Fibor Pastor, 8 pp, (pp 263-269).

Fluorescence of Plasmochin and Its Use as a Fluorescent Indicator, by Ilija Buric, Bosko Draskovic, 6 pp, (pp 271-276).

The Semiquantitative Determination of Micro Amounts of Ions by Visual Colorimetry of Spots Obtained by Partition Paper Chromatography. I. The Determination of Mercury, Copper, Cadmium, Zinc, Uranium, and Iron, by Tomislav J. Janjic, Milenko B. Celap, 6 pp, (pp 283-287).

A Contribution to the Iodometric Determination of Novalgín, by Borislav Budimic, Dragica Dumanovic, 6 pp (pp 293-297).

Scientific
Chemistry (Contd)

Selected Articles From the Serbocroatian Periodical
Glasnik Hemijskog Društva. (Contd)

Vol XXVII, No 5, 6, 1962.

N-Benzoylphthalimide II. Reaction With Amines,
by Ruza Borislavljevic, Jovan Bosnjak, 14 pp,
(pp 299-309).

OTS 62-11757/5-6
PL-480

N-Benzoylphthalimide III. Reaction With Hydrazines,
by Jovan Bosnjak, Rastko Mamuzic, 8 pp, (pp 313-318).

A Contribution to the Investigation of the Brass
Hardening Phenomenon, by Branko Bozic, 12 pp,
(pp 327-338).

A Contribution to the Study of the Equilibrium Diagram
of the Fe - As System, by Branko Bozic, Nada Vidojevic,
8 pp, (pp 341-348).

Earth Sciences & Astronomy

Aeromagnetic Survey in Geology, 174 pp.
RUSSIAN, bk, Aeromagnitnaya s'omka v Geologii, Moscow,
1963.

JPRS 23152

Methods of Climate Control, by Nikolay Petrovich Rusin,
Liya Abramovna Flit, 93 pp.
RUSSIAN, bk, Chelovek Monyayot Klimat, 21 Sep 1962,
pp 5-9; 49-129.

JPRS 22798

Planet Mars Discussed in Popular Science Articles, by
M. G. Mikhaylov, V. G. Glebov, 34 pp.
RUSSIAN, bk, Mars, Moscow, 1962, pp 3-22; 47-63.

JPRS 22878

The Principal Hydrological Features of the Pacific
Ocean, by A. N. Muromtsev, 413 pp.
RUSSIAN, bk, Osnovnye Cherty Hidrologii Tikhogo
Okeana, 1958.

OTS 63-11065
PL-480

Aerial Geophysics for Geological Research, by
N. D. Palitsyn, 10 pp.
RUSSIAN, bk, Razrabotka i Primeneniye Aerometodov v
Geologo-Geofizicheskikh Issle, Moscow, 1963, pp 3-10.

JPRS 23073

The Nature of the Aeromagnetic Anomalies of the
Perosozero Suite, by N. D. Paliysyn, 20 pp.
RUSSIAN, bk, Razrabotka i Primeneniye Aerometodov v
Geologo-Geofizicheskikh Issle, 1963, pp 53-66.

JPRS 23073

Information on Scientific Works in Physical Oceanography,
1960-1962, 15 pp.
RUSSIAN, bk, Soobshcheniye o Nauchnykh Rabotakh po
Fizicheskoy Okeanografii 1960-1962 gg, Moscow, 1963,
pp 3-12.

JPRS 23025

Scientific
Earth Sciences & Astronomy (Contd)

- Principles of Electrical Exploration, by A. G. Turkhov,
71 pp.
RUSSIAN, bk, Sprabochnik Geofizika Elektrorazvedka,
Vol III, 1963, pp 75-93; 311-329; 381-398; 345-348. JPRS 23207
- Influence of the Form of the Moon on Its Motion, by
V. T. Kondurar', 15 pp.
RUSSIAN, per, Astron Zhurnal, Vol XL, No 4, Jul,
Aug 1963, pp 757-766. JPRS 23220
- Distribution of Neutral Hydrogen and Classical
Cepheids in the Magellanic Clouds, by G. Badalyan.
RUSSIAN, per, Dok Ak Nauk Armyanskoy SSR, Vol XXXV,
No 1, 1962, pp 21-31. CSIRO/No 6437
- Peculiarities of the Attenuation of Energy From
Shallow Earthquake FOCI, by E. M. Demikhovskaya,
V. P. Kuznetsov, 11 pp.
RUSSIAN, per, Dok Ak Nauk Azerbaydzh SSR, Vol XIX,
No 4, 1963, pp 37-41. JPRS 23128
- Selected Articles From the Russian Periodical
Dok Ak Nauk SSSR.
- Vol CLII, No 3, 1963.
Results of Radiation Measurements From Satellites
in A Non-Adiabatic Model of Atmospheric Movements,
by M. Ye. Shvets, B. Ye. Shmeyerov, 5 pp,
(pp 598-601). JPRS 23129
- Seismicity and Deep Structure of the Southern
Part of the Kurile Island Arc, by S. A. Fedotov,
A. M. Bagdasarova, et al, 6 pp, (pp 668-671). JPRS 23102
- Vol CLIII, No 5, 1963, pp 1067-1070. JPRS 23267
The Use of Statistical Methods in Studying the
Finite-Difference Structure of the Balance
Equation, by M. I. Yudin, I. L. Vulis, 8 pp.
- Vol CLIII, No 6, 1963, pp 1507-1509. JPRS 23109
Dynamic Characteristics of a Sub-Polar Front
in the North Atlantic, by V. M. Gruzinov,
K. A. Chekotillo, 5 pp.

Scientific
Earth Sciences & Astronomy (Contd)

Selected Articles From the Russian Periodical
Geolog i Geofiz.

No 9, 1963.

JPRS 23134

A Theory of Interpreting Isolated Seismic
Observations, by N. N. Puzyrev, 21 pp, (pp 66-82).

On the Possibility of Mapping Paleozoic Deposits in
the Rudnyy Altay by a Seismic Method, by
I. P. Mikhelev, 13 pp, (pp 83-92).

Experience in Application of High-Frequency
Seismic Surveys Reflected Wave Method for Investiga-
tions of Wedge-Out Zones in the Southern Part of
the West Siberian Lowlands, by B. A. Kanareykin,
13 pp, (pp 93-101).

No 10, 1963, pp 5-19.

JPRS 23135

Structure of the Earth's Crust in Siberia and the
Far East According to Data of Regional Geophysical
Investigations, by E. E. Fotlady, G. I. Karatayev,
26 pp.

Ten-Thousand Meter Exploratory Well in Azerbaydzhan,
by A. A. Ali-Zade, G. A. Akhmedov, 15 pp.
RUSSIAN, per, Iz Ak Nauk Azerbaydzhan SSR Ser Geol-
Geograph Nauk i Nefti, No 4, 1962, pp 3-14.

JPRS 23030

The Effect of Tibetan Uplains on Circulation of the
Atmosphere and on Weather in China.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 2,
1956, pp 127-139.

*Weather Bureau

The Problem of Protecting Rivers and Reservoirs
From Pollution by Waste Water, by A. I. L'vovich,
10 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf, No 3,
1963, pp 35-44.

ACSI I-3640
ID 2251713

Geophysical Prospecting and Exploration Methods on
the Use of Perforated Materials in Two-Dimensional
Seismic Modeling, by P. G. Gil'bershteyn,
I. I. Gurvich, 26 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Geol i Razvedka,
No 1, 1960, pp 139-156. 9691002

AID Report T-64-2

Progress in Meteor Astronomy in 1958-1961, by
I. S. Astapovich, V. V. Fedynskiy, 16 pp.
RUSSIAN, per, Meteoritika, No 23, 1963.

JPRS 23047

Scientific
Earth Sciences & Astronomy (Contd)

Selected Articles From the Russian Periodical
Met i Gid, No 12, 1963.

JPRS 23246

Some Circulatory Features in the Troposphere
and the Stratosphere Near the Equator, by
V. R. Subentsov, 6 pp, (pp 3-7).

Mechanism of Condensation Processes in the
Atmosphere, by L. Krystanov, G. Miloshev, 9 pp,
(pp 8-13).

Use of an Electronic Computer to Solve the
Problem of Unsustained Water Motion in a
Reservoir, by B. M. Budak, Ye. A. Vinogradova,
et al, 10 pp, (pp 14-21).

Literature on Meteorology and Hydrology Published
in 1962, 8 pp, (pp 50-53).

Contents of the Periodical *Meteorologiya i*
Gidrologiya for 1963, 10 pp, (pp 59-63).

Selected Articles From the Russian Periodical
Okeanologiya.

Vol III, No 3, 1963.

JPRS 23281

Possibilities of Utilizing Fishing Resources
of the World Ocean, by T. S. Rass, 7 pp,
(pp 495-499).

On the Most Efficient Way of Using Scientific
Information Materials in the Field of Oceano-
graphy, by V. A. Polushkin, 5 pp, (pp 537-538).

Studies in the Indian Ocean During the 35th
Voyage of the Research Ship *Vityaz'*, by
F. L. Bezrukov, 17 pp, (pp 540-549).

The Fourth Mediterranean Expedition Aboard the
Research Ship *Akademik S. Vavilov*, by
Yu. Ye. Ochavkovskiy, 7 pp, (pp 550-554).

The Odessa Biological Station of the Institute
of Hydrobiology of the Academy of Sciences
Ukrainian SSR Its Historical Background and
Research Work, by K. A. Vinogradov, 8 pp,
(pp 554-558).

Vol III, No 6, 1963, pp 1056-1060.

JPRS 23110

New Data On the Bottom Relief of the Mediter-
ranean Sea, by V. P. Goncharov, O. V. Mikhaylov,
8 pp.

Scientific
Earth Sciences & Astronomy (Contd)

Selected Articles From the Russian Periodical
Problemy Arktiki i Antarktiki.

No 12, 1963, pp 5-13.

NZDIA

Problem of the Aseismicity of Antarctica and
Greenland, by P. S. Voronov, I. G. Klushin.

No 14, 1963.

JPRS 23074

On the Problem of the Trends and Coordination
of Research on Long Range Meteorological Fore-
casts, by A. A. Girs, 17 pp, (pp 5-15).

A Numerical Method of Computing Ice Thickness
and Temperature, by Yu. P. Doronin, 12 pp,
(pp 17-26).

Short Period Disturbances of Solar Activity and
Possible Reasons for the Ambiguity in Their
Connection With Fluctuations of Hydrometeorolo-
gical Elements, by B. A. Sleptsov-Shevelich,
11 pp, (pp 41-46).

The Role of Meteorological Conditions in the
Formation of the Snow Ice Surface of Antarctica,
by I. D. Kopanev, 8 pp, (pp 47-52).

Oceanographic Research in the Central Arctic, by
N. I. Blinov, 10 pp, (pp 53-59).

Studying the Atmospheric Boundary Layer With a
300-Meter Meteorological Tower, by A. A. Dmitriyev,
N. I. Byzova.

RUSSIAN, per, Trudy Inst Prik Geofiz Ak Nauk SSSR,
1963, 158 pp.

*AID

Relationship Between the Radar Signal Reflected
From a Cloud and the Cloud Parameters, by
Borovikov, Kostarev, et al.

RUSSIAN, per, Trudy Tsentral Aerolog Observ,
No 36, 1961, pp 14-30.

*ACSI 1-4158
ID 2204004064

The Work of the Department of Geophysical Methods
of Exploration, by A. S. Semenov, 11 pp.

RUSSIAN, per, Vest Leningrad Univ, No 24, 1963,
pp 147-153.

JPRS 23265

Formulating the Law of Galactic Rotation From
Radio Astronomical Observations, by T. Agekyan,
E. Klosovskaya.

RUSSIAN, per, Vest Leningrad Univ Ser Matemat
Mekh i Astron, No 13, 1962, pp 103-112.

CSIRO/No 6436

Scientific
Earth Sciences & Astronomy (Contd)

Tasks of Hydrology and Hydrogeology, by
Al. Petkov, N. Boyadzhiev, 7 pp.
BULGARIAN, per, Khidrologiya i Meteorologiya,
No 4, Nov 1963, pp 3-8. JPRS 22952

The Orography of the Northern Hemisphere Expressed
by Spherical Functions, 13 pp.
CHINESE, per, Ch'i-hsiang Hsueh-pao, Vol XXX, 1959,
pp 405-413. 9216846 Emmanuel Coll Res
Lang Ctr
E-T-Ch-63-8

What is the CBL and What Does it do?, by
L. A. Gall, 10 pp.
RUSSIAN, per, Geodesia, Vol V, No 9, 1963, pp 246-251.
(Call No QB275 G23, Vol V, No 9, Eng Tr) Army Map Service

The Contribution of the Heinrich Hertz Institute at
Berlin-Adlershof to the Year of the Quiet Sun,
by A. Kruger, J. Taubenheim, 9 pp.
GERMAN, per, Die Technik, No 1, 1964, pp 42-45. JPRS 23226

About the Capability of Differentiating Atmospheric
Humidity and the Longevity of the Three Races of
Anopheles Maculipennis, *Atroparvus*, *Messosae*, *Typicus*,
Occuring in Germany, at Different Atmospheric
Humidities, by A. Hundertmark, 16 pp.
GERMAN, per, Z fuer Angewandte Entomologie, Vol XXV,
No 1, 1958, pp 125-141. NIH 12-17-63

Pleistocene Glaciation in Central Japan, by
Takuji Ogawa.
JAPANESE, per, Chikyu, Vol XVII, No 3, 1952,
pp 1-12. Dept of Interior
209(900) qUn34pr
No 730

An Example of Remarkable Variations in Weather
Trends and Forecasting of Beginning and Ending
Time by Surface Weather Chart, by J. Tahara, 6 pp.
JAPANESE, per, Journal of Meteorological Research,
Vol X, No 4, 1958, pp 358-360. 9690556 DPC RSIC-109

On the Forecasting of Clear Air Turbulence, by
Y. Sugimoto, K. Ono, 22 pp.
JAPANESE, per, Journal of Meteorological Research,
Vol XIV, 1962, pp 80-93. 9690734 DDC RISC-115

**Scientific
Earth Sciences & Astronomy (Contd)**

**Selected Articles From the Serbocroatian Periodical
Vesnik Zavoda za Geoloska i Geofizicka Istrazivanja,
Series A, No 20, 1962.**

OTS 62-11756/1
PL-480

Geological Characteristics and Practical Significance of the Deposits of Cement Marls at Rajja, by Milan Ilic, Dragoljub Manojlovic, 20 pp, (pp 7-27).

The Vein Magnesite Deposit of Brezak Near Pranjani, by Milan Ilic, D. Manojlovic, 14 pp, (pp 31-44).

Some Observations on the Bauxites in western Herzegovina, by Aleksandar Ciric, 16 pp, (pp 47-56).

Some New Views on the Magmatic Phases and Geological Structure of the Timok Eruptive Area, by H. Drovenik, I. Antonijevic, 28 pp, (pp 67-78).

The Geological Column of Jucanj Mountain, by Ivan Antonijevic, Radomir Milosakovic, 15 pp, (pp 93-99).

The Styrian Mammal Fauna of Lozovik Near Svetozarevo, by Aleksandar Ciric, 10 pp, (pp 107-112).

The Results From Some Recent Studies of the Species *Hippurites Vredenburgi* Kuhn 1932 of Iran and Yugoslavia, by Aleksandar Grubic, 16 pp, (pp 121-135).

Dinaric Western Serbian Orbitolinas of the Upper Cretaceous, by Milena Pasic, 57 pp, (pp 153-177)

On a New Upper Jurassic Dasycladacea *Pianella Grudii* Nov. Gen, Nov. Spec., by Rajka Radoicic, 11 pp, (pp 201-205).

The Microfauna of the Upper Liassic Limestones of Northern Montenegro, Stara Raska and Rozaj, by Rajka Radoicic, 23 pp, (pp 211-216).

Neoraginia Convexa - A New Foraminifer From the Cenomanian-Turonian of Kosovo Polje, by A. Danikova, 13 pp, (pp 223-226).

Chonodont Fauna From the Upper Ludlowian Limestones on Suva Planina, Eastern Serbia, Yugoslavia, by H. Spasov, Miroslav Veselinovic, 19 pp, (pp 233-244).

Scientific
Earth Sciences & Astronomy (Contd)

Selected Articles From the Serbo-croatian Periodical
Vesnik Zavoda za Geoloska i Geofizička Istraživanja,
Series A, No 20, 1962. (Contd)

OTS 62-11756/1
PL-480

Incrustings of Bryozoan Colonies on the Shells of Middle Eocene Echinoids, by J. Mitrovic-Petrovic, D. Urošević-Dacic, 29 pp, (pp 249-259).

Paleogeographic Sketch of the Tertiary Basins in the Morava Trough, by Milinka Ciculic, 7 pp, (pp 263-269).

On the Discovery of Fauna in the Diabase-Hornstone Formation Between Rudo and Uvac, Eastern Bosnia, by Branislav Markovic, 5 pp, (pp 273-276).

On the Problem of the Variscian Folding in Yugoslavia, by Branislav Ciric, 9 pp, (pp 279-287).

The Tectonic Trough of the Crnojeka Reka Flysch, by Smiljka Palinkasevic, Ljubomir Dedic, 7 pp, (pp 289-294).

The Petrological Characteristics and the Stratigraphic and Tectonic Position of the Magmatic Rocks of the Prokletije Mountains, by Srbobran Mojsilovic, Vera Avramovic, 25 pp, (pp 297-313).

Geochemical Investigations in the Area of Gvozdenik - The Androvačka Reka, Combining Spectrochemical and Colorimetric Method of Analyses, by Rodoljub Novakovic, 8 pp, (pp 317-335).

Scientific
Electronics

Design Methods of Optimal Coding for Channels With Noise, by U. S. Fleyshman. (SF-2999)
RUSSIAN, bk, Konstruktivnyye Metody Optimal'nogo Kodirovaniya Dlya Kanalov s Shumami, Moscow, 1963, 224 pp.

*JPRS

Principles of Continuous-Wave Radar, by A. S. Vinitskiy, 723 pp.
RUSSIAN, bk, Ocherk Osnov Radiolokatsii pri Nepreryvnom Uzlucheni Radiovoln, Leningrad, 1961, pp 1-474.

JPRS 23120

Electronics in Laboratory and Clinic, 6 pp.
RUSSIAN, np, Medit Gazeta, 1 Nov 1963, p 3.

JPRS 23040

In Order That the Tempo Be Still Faster, 5 pp.
RUSSIAN, np, Bkon Gazeta, No 2, 11 Jan 1964, p 43.

JPRS 23136

Mobility of Electrons in Highly Alloyed Silicon, by E. M. Omel'yanovskiy, V. I. Fistul', 10 pp.
RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 3, 1963, pp 921-927. 9691028

FTD-TT-63-687

Production of the UBT-55 Television Set, 5 pp.
RUSSIAN, per, Ogonek, No 50, Dec 1963, pp 6, 7.

JPRS 23186

Semiconductor Technology and Microelectronics, by Ya. Fedotov, 10 pp.
RUSSIAN, per, Radio, No 11, 1963, pp 28-31.

JPRS 22993

Investigation of One Model of a Neuristor, by G. N. Berestovskiy, 14 pp.
RUSSIAN, per, Radiotekh i Elektron, Vol VIII, No 11, 1963, pp 1862-1871.

JPRS 23046

An Ocean of Gigantic Power, by Ya. I. Finogenov, 6 pp.
RUSSIAN, np, Sovet Rossiya, 18 Dec 1963, p 2.

JPRS 23136

Migration of Electrons in a Spatial-Periodic Helical Magnetic Field, by R. A. Demirkhanov, Yu. V. Kursanov, 9 pp.
RUSSIAN, per, Zhur Tekh Fiz, Vol XXXIII, 1963, pp 1098-1103. 9691073

FTD-TT-63-1060

Self-Oscillation in Circuits With Thermistors, by A. G. Shashkov, 15 pp.
BELORUSSIAN, per, Inzhenerno Fiz Zhur Akad Nauk Belorussk. SSR, Vol V, No 11, 1962, pp 64-73.

AEC-SC-T-530

Scientific
Electronics (Contd)

- Antennas, by Khristo Dimitrov Shinev, 481 pp.
BULGARIAN, bk, Anteni, 1960, pp 1-410. 9691474-V FTD-TT-62-1826
- Short Circuit Inductances in Radio Frequency
Circuits,
CZECH, per, Sdelovaci Technika, No 3, 1963,
pp 82, 83. *ACSI I-3969
ID 2204002064
- Symmetrical Balancing Capacitors for Czechoslovakia
Made Long Distance Cables, by Antonin Pantucek.
CZECH, per, Sdelovaci Technika, No 3, 1963,
pp 90, 91. *ACSI I-3974
ID 2204002564
- Study No 26 Concerning: Search for a Signal
Theory. Recognition of the Signal in Noise
Part 2, 41 pp.
FRENCH, rpt, Etude No 26 Concernant: Recherche
d'une Theorie du Signal. La Reconnaissance du
Signal dans le Bruit, Fascicule 2, 2 Aug 1963,
pp 1-42. 9691042 ACSI I3405-B
ID 2246296
- The Elementary Processes of Communication, Study
No 30, 23 pp.
FRENCH, rpt, Les Processus Elementaires de la
Communication, 2 Aug 1963, pp 1-31. 9691041 ACSI I-3405-A
ID 2246296
- Resolving Power of the Electrostatic Immersion
Objective, by Albert Septier.
FRENCH, per, Comptes Rendus, Vol CCXXXV, 1952,
pp 609-611. AEC-A1-Tr-11
(Paper 1)
- A New Type of High Resolving Power Electrostatic
Immersion Objective, by Albert Septier.
FRENCH, per, Comptes Rendus, Vol CCXXXV, 1952,
pp 652-654. AEC-A1-Tr-11
(Paper 2)
- Experimental Study of the Flat-Electrodes Electrostatic
Immersion Objective: Focusing Curves and Focal
Distance, by Albert Septier.
FRENCH, per, Comptes Rendus, Vol CCXXXV, 1952,
pp 1621-1623. AEC-A1-Tr-11
(Paper 3)
- Hawk Program: Cooperative Testing Bench for
European Electronics, 7 pp.
FRENCH, per, Entreprise, No 11, 9 Nov 1963,
pp 19-25. (Call No DIA, Engr Tr) Army Map Service
- Ford of Franco, the Regional Problems of an
International Group, 8 pp.
FRENCH, per, Entreprise, No 11, 30 Nov 1963,
pp 19-23. (Call No DIA, Eng Tr) Army Map Service

**Scientific
Electronics (Contd)**

- Recent Developments in the Rapid Nuclear Electronics,
by Jacques Mey.
FRENCH, per, Nucleus, Vol IV, No 5, Sep, Oct 1963,
pp 384-391. *AEC
- New Expression for Braking Force of Electromagnetic
Brake With Non-Ferromagnetic Disk, by Alfons Ifrim.
FRENCH, per, Revue d'Electrotechnique et d'Energetique,
Vol VIIa, 1962, pp 237-247. *AEC
- Conversion of Electron Excitation Energy, by
E. Lippert, W. Luder, 35 pp.
GERMAN, per, Angewandte Chemie, Vol LXXIII,
No 21, 1961, pp 695-706. NIH 12-18-63
- Diffraction and Retardation of Electrons, by
A. Sommerfeld.
GERMAN, per, Annalen der Physik, 5th Series,
Vol XI, No 3, 1931, pp 257-330. *AFCL Res Lib
- A Pulse Amplitude Discriminator Circuit
Using Tunnel Diodes, by R. van Zyrk, 14 pp.
GERMAN, per, Nuclear Instruments and Methods,
Vol XVI, 1962, pp 157-162. AEC-NP-Tr-1069
- A Pulse Time Modulation System for 60 Message
Channels PPM 60, by Karl Kholer, 17 pp.
GERMAN, per, Siemens Zeitschrift, Vol XXXIV, No 1,
1960, pp 26-31. SLA 63-10674
- Passenger Train Radio Equipment - For the Use of
Operational Command and the System of Passenger
Service.
JAPANESE, per, Denshi Kogyo, Vol XII, No 9, 1963,
pp 35-40. *ACSI 1-4152
ID 2204003964
319th MI Bn
- The Use of Sonic and Ultrasonic Vibrations in the
Foundry, by Z. Dragos, C. Moldovan.
RUMANIAN, per, Metallurgia si Constructia de
Masini, Vol XV, No 8, 1963, pp 498-501. *HB 5727
- Feed Systems for Parabolic Antennas With Circular
Aperture, by Adolfo Montalvo Sanz.
SPANISH, per, Revista de Telecomunicacion, Vol XII,
Mar 1958, pp 25-33. *Navy/APL J318

**Scientific
Engineering**

**Stainless Steel Screw Propellers, by
N. N. Sokolov, M. L. Rosen.
RUSSIAN, rpt, Leningrad, 1960.**

Navy Tr 3705
ONI 977

**Combustion in Turbulent Flow, by
G. M. Krzhizhanovskiy, et al.
RUSSIAN, bk, Goreniye v Turbulentnom Potoke,
Moscow, 1959, 149 pp. 9217124-V**

NASA TT F-97

**Innovations in Equipment and Techniques for Blasting,
163 pp.
RUSSIAN, bk, Novoye v Sredstvakh i Sposobakh
Vzryvaniya, Moscow, 1962, pp 1-127. 9691069-V**

FTD-TT-63-293

**A Rational Technology for Resistance Welding
by the Fusion of Steel, by A. S. Gel'man.
RUSSIAN, rpt, Research in Welding Technology,
Mashgiz, 1953, pp 102-172.**

BISI 3363

**Measuring Instruments for Thermal Processes, by
K. A. Mironov, L. I. Shipotin, 1023 pp.
RUSSIAN, bk, Teplotekhnicheskiye Izmeritel'nyye
Pribory, 1958, pp 1-896. 9691471-V**

FTD-TT-63-16

**Caterpillar Track Cranes, Hoisting, Hauling and
Special Machinery for Construction and Installation
Work; A Catalogue-Handbook, No 2, by
L. I. Kozlovskiy, et al.
RUSSIAN, bk, Tsentral'nyy Institut Nauchno-
Tekhnicheskoy Informatsii po Avtomatizatsii i
Mashinostroeniysbi Gosudarstvennogo Komitea po
Avtomatizatsii i Mashinostroeni pri Gosplane
SSSR, 1963, 227 pp.**

*FTD-TT-64-150

**High-Productivity Tools and Equipment, by
V. V. Kuz'mina, 239 pp.
RUSSIAN, bk, Vysokoproizvoditel'naya Tekhnologicheskaya
Osnastka, 1960, pp 1-176. 9690910-V**

FTD-TT-62-1359

**Mesh-Reinforced Concrete Floor Structures, by
V. G. Kreitun.
RUSSIAN, per, Beton i Zhelezobeton, No 9, 1960,
pp 401-407.**

CRL/T 1325

**Scientific
Engineering (Contd)**

**Selected Articles From the Russian Periodical
Iz Vysshikh Ucheb Zaved, Aviats Tekh.**

- Vol V, No 2, 1962.
Design and Experimental Study of Bladeless Diffusers
for Radial-Axial Flow Turbines, by A. V. Gubarev,
G. A. Filippov, (pp 113-123). AEC-Tr-6247
- Optimal Number of Working Blades of Disk
Pumps, by V. G. Zhuravlev, 6 pp, (pp 168-170). AEC-Tr-6251
- Vol V, No 3, 1962, pp 157-165. AEC-Tr-6250
Calculation of Losses in Diffusers Without
Separation, by A. E. Zaryankin, 14 pp.
- Vol V, No 4, 1962. 9690464 FTD-TT-63-813
Designing Structurally Orthotropic Shells of
Revolution, by Ye. F. Burnistrov, 12 pp,
(pp 57-67). 9690464
- Equations of Equilibrium and Oscillations of
Three-Layer Shells, by M. I. Il'gamov, 16 pp,
(pp 68-78).
- Vol VI, No 1, 1963, pp 116-125. AEC-Tr-6248
Disc Losses in Radial-Axial Flow Turbines, by
A. P. Tunakov, 17 pp.
- Study of Pig Iron From Hearth and Hearth Bottom
Linings in Blast Furnace, by I. M. Galemin,
C. I. Ivantsov.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal,
No 12, 1963, pp 28-34. *HB 6154
- On the Movement of the Blank in Free Explosive
Forming, by M. A. Anuchin.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Mash, No 5,
1963, pp 155-157. *HB 5834
- Prospects for Increasing the Range of Hydroacoustical
Means of Surveillance, by A. L. Prostakov, 10 pp.
RUSSIAN, per, Morskoy Sbornik, No 11, 1963,
pp 67-74. JPRS 22890
- Principle Results and Trends in World Oil
Prospecting, by M. K. Kalinko, 13 pp.
RUSSIAN, per, Sovet Geolgiya, No 7, 1963,
pp 3-13. JPRS 22885

**Scientific
Engineering (Contd)**

Improvement of a Method of Manufacturing Building Components From Silicalcite, by B. Tsemakovich. RUSSIAN, per, Stroitel Materialy, Vol IV, No 6, 1958, pp 11-16.

GB/250/T 34

Investigation of Annular Diffusers of Marine-Gas-Turbine Installations, by S. F. Abramovich, L. G. Vasil'yev, 15 pp. RUSSIAN, per, Sudostroyeniye, No 3, 1963, pp 34-38. 9691100

FTD-TT-63-1039

Assembly of Trestle Type Prefabricated Piers, by D. E. Gurevich, A. G. Volik, 7 pp. RUSSIAN, per, Transport Stroitel, No 2, 1963, pp 23-27.

ACSI I-3635
ID 2251708

Temperature Measuring Device, by Ye. Ye. Yudin. RUSSIAN, Patent No 147,380, 28 Sep 1961, pp 1, 2.

*ACSI I-3944
ID 2204000264

Inhibition of Corrosion by Liquid Pb-Bi Eutectic, by V. Cihal, P. Grobner. CZECH, per, Sbornik Vedeckych Praci Vysoke Skoly Banske Ostrava, Vol IX, No 3, 1963, pp 439-451.

*BISI 3578

Thermistor Bridges for Temperature Measurements and Control, by Ladislav Roth. CZECH, per, Sdelovaci Technika, No 3, 1963, pp 91, 92.

*ACSI I-3970
ID 2204002164

The Source of High Temperature Plasma, by Emil Zizka, 11 pp. CZECH, Patent No 99196, (No 21g, 21/10, Submitted 30 Nov 1959), (PV 6951-59), 15 April 1961, pp 1-3. 9691065

FTD-TT-63-1042

Research on Thawing of Deep-Frozen Break, by B. Bolderok, W.H.G. Wiebols, 17 pp. DUTCH, per, TNO Nieuws, No 209, Jul 1963, pp 377-385.

ACSI I-3634-A
ID 2251707

TNO and the Medium-Sized and Small Enterprise, 7 pp. DUTCH, per, TNO Nieuws, No 209, Jul 1963, pp 388-392.

ACSI I-3634-B
ID 2251707

Finnish Recommendations for Radiation-Shielding Concrete Structures, by Arvo Nykaonen, 13 pp. FINNISH, per, Valtion Tek, Tutkimuslaitos, Tiedotus, Vol III, No 65, 1962, pp 1-8.

AEC-Tr-6083

**Scientific
Engineering (Contd)**

**Purex or Volatilization Influence of the
Reprocessing Process on the Fuel Cycle, by
P. Regnaut, J. Sauteron, 35 pp.
FRENCH, rpt, 9-14 Sep 1963.**

AEC-Tr-6177

**Selected Articles From the French Report
Colloque de la Societe Europeene d'Energie
Atomique sur les Metaux Liquides,
30 Sep-2 Oct 1963.**

*AEC

The Instrumentation in Rhapsode 1 and 10 MW Test
Circuits, by N. Lions.

Mechanical Pumps for Liquid Metals, by
J. Baumier, H. J. Gollion.

Design Problems of Liquid-Metal Installations -
Tubing, Exchangers, Steam Generators, by
P. Pouderoux.

Tests of New Fast Photomultipliers, by J. Oostens.
FRENCH, per, Bull Inform Sci Tech, No 64, 1962,
pp 29-36.

*AEC

Experimental Study of A Rotary Molecular Pump,
by G. Mongodin, F. Provot, 29 pp.
FRENCH, per, Vide, Vol XI, 1956, pp 3-13.

AEC-NP-Tr-1065

Shock Absorber for Automobiles or Other Applications,
by Eugene Denis, 5 pp.
FRENCH, Patent No 610,585.

Patent Office

Installation of Blower Nozzles for Drying Products
in Band Form, 5 pp.
FRENCH, Patent No 1,149,169, Dec 1957.

OTS 63-18314

Improvements in Automobile Bumpers, by
Cosur-Marc-Jean Jeanlin, Ernest-Paul Joseph Chefneux,
5 pp.
FRENCH, Patent No 1,236,895.

Patent Office

Studies Concerning the Concept of Safety Associated
With Structures, by Ernst Baller.
GERMAN, rpt, Untersuchungen Uber den Sicherheitsbegriff
von Bauwerken, 1960, pp 1-37.

*ACSI I-3987
ID 2204002664

Approximate Calculation of the Chemical Activity of
Components of Ternary Systems Using a Limited Number
of Initial Values, by V. Feldmann.
GERMAN, per, Archiv fuer Eisenhuettenwesen,
Vol XXXIII, No 12, 1962, pp 827-830.

BISI 3176

Scientific
Engineering (Contd)

Development, Design and Calculation of a Mathematical Model of the Blast Furnace, Part I, by R. Wartmann. GERMAN, per, Archiv fuer Eisenhüttenwesen, Vol XXXIV, No 12, 1963, pp 879-885.

*BISI 3581

Engineering Problems in the AVR-High-Temperature Reactor, by H. Knifer, 24 pp. GERMAN, per, Atomwirtschaft, Vol VIII, 1963, pp 165-170.

AEC-Tr-6233

On the Reactivity of Coke. III. Reactivity and Internal Structure of Moulded Coke Charged in the Cupola Furnace, by W. Peters, J. Langhoff. GERMAN, per, Brennstoff-Chemie, Vol XLIV, No 2, 1963, pp 43-48.

CRL/T 1307

Heat Treatment Methods Used for the Prevention of Flake Formation, by H. Bittersmann, O. Kramer. GERMAN, per, Neue Huette, Vol VIII, No 4, 1963, pp 225-231.

BISI 3327

Load Assumptions for Aerial Towers, by F. Staiger. GERMAN, per, Rundfunktechnische Mitteilungen, No 4, 1960, pp 253-257.

NZDIA

Influence of a Variety of Ores on Efficiency and Cost of Ore Transport, by E. Baren. GERMAN, per, Stahl und Eisen, Vol LXXXIII, Nov 1963, pp 1408-1413.

*BISI 3576

Influence of Sheet Material and Galvanizing Conditions on the Properties of Galvanized Sheets and Strip, by D. Horstmann. GERMAN, per, Stahl und Eisen, Vol LXXXIII, Nov 1963, pp 1467-1477.

*BISI 3579

Electric Arc Plasma Torch, by H. Meyer. GERMAN, per, Die Umschau, Dec 1961, pp 713-743.

NZDIA

The Overflow Over a Weir, by August Lauck, 34 pp. GERMAN, per, Z fuer Angewandte Mathematik und Mechanik, Vol V, No 1, 1925, pp 1-16.

SLA 62-16433

A Double-Focussing Mass Spectrometer With an Non-Homogeneous Magnetic Field and Toroidal Condenser, by H. W. Wachsmuth, H. Ewald, 15 pp. GERMAN, per, Z fuer Naturforschung, Vol XVIIIa, No 3, 1963, pp 389-397. 9218820

AEC-Tr-6162

A Flexible Spring Element Designed for Turbine Roller Bearings, by G. Guetter, 7 pp. GERMAN, per, Patent No 22489, (Class 47b, 12, 47b, 17, 19 March 1959), 11 Jan 1962, pp 1-4. 9691063

FTD-TT-63-161

**Scientific
Engineering (Contd)**

Process for Optical Representation of Images of
Acoustic Field Cross Sections, by Oswald Raudszus,
5 pp.
GERMAN, Patent No 876,475.

Patent Office

Arrangement for recording Height and Profile of Bulk
Material in Containers, by Siegfried Fahrentholz,
12 pp.
GERMAN, Patent No 1,074,281.

Patent Office

Device Applicable for Example to Ships, for Damping
Oscillations Generated in a Body by External Forces,
8 pp.
ITALIAN, Patent No 321,470.

Patent Office

Improvements in Annular Gaskets To Be Mounted on
Threaded Seats, Particularly Suitable for Internal
Combustion Engines, by Marco Perugia, 6 pp.
ITALIAN, Patent No 414,395, 1946.

OTS 63-19619

Triple-Effect Vibration and Shock Absorber, by
Tino Sarti, 6 pp.
ITALIAN, Patent No 597,165.

Patent Office

National Telephone Switching Plan in Japan.
JAPANESE, per, Journal of the Institute of
Electrical Communication Engineers of Japan,
Vol XLV, No 11, 1962, pp 51-58.

*ACSI I-4151
ID 2204003864
319th MI Dn

The Load-Carrying Capacities of Symmetrically
Loaded Spherical Shells, by Zenon Mroz, Bing-Ye Xu.
POLISH, per, Archiwum Mechaniki Stosowanej, Vol XV,
No 2, 1963, pp 245-266.

*FTD-TT-64-131

Practical Applications of Sulphurizing Cast Iron
and Steel, by Gh. Suceveanu.
RUMANIAN, per, Metallurgia si Constructia de
Masini, Vol XV, No 4, 1963, pp 326-329.

*IB 5725

Chromizing of Steel and Cast Iron Components, by
G. Rosenthal, M. Carp.
RUMANIAN, per, Metallurgia si Constructia de
Masini, Vol XV, No 6, 1963, pp 387-392.

*IB 5724

Forging Defects in large Axles, by R. Muscan,
C. Antonescu.
RUMANIAN, per, Metallurgia si Constructia de
Masini, Vol XV, No 8, 1963, pp 496-498.

*IB 5726

The Spillway of the Kokin Brod Earth Dam, by
V. Zunjic, S. Bruk, 32 pp.
SERBOCROATIAN, per, Hidrotehnicki Institut Ing
Jaroslav Cerni Beograd, Saopstenja, No 6, 1957,
pp 1-18. 9218588

OTS 60-21651
PL-480

**Scientific
Engineering (Contd)**

**Selected Articles From the Serbocroatian Periodical
Saopstonja Anstitut za Vodoprivredu, Jaroslav Cerni.**

Vol IX, No 24, 1962.

Changes in the Regime of Flow of the Upper Part
of the Yugoslav Danube, by Z. Vladislavjevic,
50 pp.

OTS 62-19470/3
PL-480

A Contribution to a More Precise Determination of
the Water Balance on the Yugoslav Part of the
Danube, by D. Marjanovic, 16 pp.

Vol IX, No 25, 1962.

Hydraulic Problems of Karst, by Bogic Knezevic,
12 pp.

OTS 62-19470/4
PL-480

Production Techniques and Organization of
Manufacture of Concrete Faipas for Irrigation
Works, by Bogdan Trbojevic, 46 pp.

Morphological Analysis of the Formation of the
River Bed at the Confluence of the Sava and the
Danube, by Stevan Bruk, Mladen Boreli, 12 pp.

Hydraulic Analysis of the Existing State of the
Confluence of the Sava and Danube Rivers, by
Stevan Bruk, 10 pp.

Explosive Projectile With Hollow Charge, by
Charles Somville, 6 pp.
SWISS, Patent No 341,743.

Patent Office

Fuels & Propulsion

Foundations of Contemporary and Future Rocket
Propulsion Systems, by G. Schubart, 123 pp.
GERMAN, bk, Grundlagen der Gegenwaertigen und
Zukunftigen Raketsenentriebe, 1958, pp 1-103.
9691010-V

FTD-TT-63-455

Scientific
Materials & Metallurgy

Beryllium Toxicology, Symptomatology of Affections and Industrial Hygiene, by V. M. Kozlov, V. D. Turovskiy, 159 pp.

RUSSIAN, bk, Berilliy Toksikologiya, Klinika Porazheniy, Gigiyena Truda, Moscow, 1962, pp 3-118. 9691062-V

FTD-TT-63-578

Crystallization of Ingots During Arc Melting With a Consumable Electrode, by V. I. Dobatkin, 14 pp.

RUSSIAN, bk, Issledovaniye Splavov Tsvetnykh Metallov, No 4, 1963, pp 117-120.

JPRS 23056

Behavior of Sheet Metals Under Biaxial Stress, by Ya. B. Fridman, T. K. Zilova, 23 pp.

RUSSIAN, bk, Issledovaniye Splavov Tsvetnykh Metallov, No 4, 1963, pp 185-203.

JPRS 23056

Soviet Research on Heat Resistant Steels and Alloys, by Fedor Fedorovich Khimushin, 19 pp.

RUSSIAN, bk, Legirovaniye Termicheskaya Obrabotka i Svoystva Zharoprochnykh Staley i Splavov, 3 Nov 1962, pp 9-25.

JPRS 22781

Effect of Individual Features of the Technological Process on the Properties of Refractory Metal Castings, by E. Ya. Kukkonen, G. A. Kaplunovskiy, 8 pp.

RUSSIAN, bk, Mekhanicheskiye Svoystva Litogo Metalla, 1963, pp 223-228.

JPRS 23064

The Metallurgy of Titanium: Investigation of Electric Melting of Titanium Slags, by V. A. Reznichenko, M. B. Rapoport, et al, 183 pp.

RUSSIAN, bk, Metallurg Titana, Issle Elektrop Titanov Shlakov, 1963, pp 1-199.

JPRS 22924

Equipment for Processing Refractory Metals in the Electrovacuum Industry, by A. T. Aleksandrova, S. I. Brodskiy, et al, 200 pp.

RUSSIAN, bk, Oborudovaniye dlya Obrabotki Tugoplavkikh Metallov v Elektrovak Proiz, Moscow-Leningrad, 1963, pp 1-80.

JPRS 22894

Selected Articles From the Russian book Osnovy Poroshkovoy Metallurgii, Kiev, 1961.

JPRS 22933

Obtaining Powders From Carbonyls and Other Physico-Chemical Methods of Preparation of Powders, by I. M. Fedorchenko, R. A. Andriyevsky, 5 pp, (pp 60-64).

Physical Properties, by I. M. Fedorchenko, R. A. Andriyevsky, 36 pp, (pp 98-128).

Scientific
Materials & Metallurgy (Contd)

- Selected Articles From the Russian Book
Osnovy Poroshkovoy Metallurgii, Kiev, 1961. (Contd) JPRS 22933
- Rolling of Metal Powders, by I. M. Fedorchenko,
R. A. Andriyevsky, 17 pp, (pp 219-234).
- Properties of Sintered Bodies, by I. M. Fedorchenko,
R. A. Andriyevsky, 25 pp, (pp 336-357).
- Rare Earth Alloys, by E. M. Savitskiy, V. F. Terekhova,
et al, 360 pp.
RUSSIAN, bk, Splavy Redkozemel'nykh Metallov, Moscow,
1962. AEC-Tr-6151
- The Structure of Alloys of Certain Systems Containing
Uranium and Thorium, 469 pp.
RUSSIAN, bk, Stroenie Splavov Kekotornykh Sistem
s Uranom i Toriem, Moscow, 1961. 9218819 AEC-Tr-5834
- Selected Articles From the Russian Periodical
Dok Ak Nauk SSSR.
- Vol LXXXV, 1952, pp 1025-1028. AEC-Tr-6232
Complex Formation Between Alkali Metal
Fluorides of the Lanthanum Group Metals, by
E. P. Dergunov, 6 pp.
- Vol CLII, No 1, 1963, pp 92-95. JPRS 22981
Suzuki Atmospheres in Brasses and Aluminum
Bronzes, by V. Ye. Panin, Ye. F. Dudarev, 9 pp.
- Vol CLII, No 5, 1963, pp 1086-1088. JPRS 23121
Change of Electron Work Function During
Cold-Working of Molybdenum and Tantalum in
A Super-High Vacuum, by L. A. Andreyev,
Ya. Palige, et al, 5 pp.
- Vol CLIII, No 6, 1963, pp 1299-1302. JPRS 23259
Second Series of Ground Tests With Weightless
Liquids, by V. V. Shuleykin, 7 pp.
- Statistical Theory of Akulov's Dislocations, by
P. P. Galenko, V. A. Franyuk, 10 pp.
RUSSIAN, per, Fiz Metal i Metallov, Vol XV, No 5,
1963, pp 773-778. JPRS 22981
- Spontaneous Shifting of Dislocations in Single
Crystals of LiF, by V. B. Pariyskiy, A. I. Landau,
10 pp.
RUSSIAN, per, Fiz Tverdogo Tela, Vol V, No 9,
1963, pp 2570-2575. JPRS 22981

**Scientific
Materials & Metallurgy (Contd)**

Conference on New Directions in Research and Applications of Rare Earth Metals, by V. T. Terekhova. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metal i Gornovo Delo, No 3, 1963, pp 191, 192.

*AEC

Effect of Strain Cycling on the Structure of Deformed Pure Metals, by Gal'perin, Kostyukova, et al, 8 pp.

ACSI I-3866
ID 2253807
525th MI Gp

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Metall i Toplivo, No 4, 1959, pp 82-87.

Investigation of Temperature Fields in an Electroslag Ingot, by V. V. Panin, M. M. Klyuyov, et al, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 9, 1963, pp 77-82.

JPRS 23089

Some Thermal Engineering Problems of Ingot Solidification in Electroslag Remelting, by V. V. Panin, Ye. I. Molchanov, et al, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zavod, Chern Metal, No 9, 1963, pp 83-87.

JPRS 23089

High-Temperature Deformation of Refractory Metals, by V. I. Orzhekhovskiy, I. M. Pavlov, et al, 7 pp. RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal, No 9, 1963, pp 88-91.

JPRS 23121

Effects of Potassium Salts on Ketones With Phenyl Acetyl Groups, by A. E. Favorski. RUSSIAN, per, Journal of Russian Chemical Society, Vol XXXVII, 1905, pp 643-645.

*AEC

Methods of Removing Entrained Dust From Cyclones Places in Fluidized Bed Equipment, by

B. Ya. Barsukov, G. S. Erokhin.

RUSSIAN, per, Khim i Tekh Topliva i Masol, Vol VI, No 3, 1961, pp 36-39.

CRL/T 1327

Diamond Wheels for Grinding Hard-Alloy Tools, by V. N. Bakul, I. P. Zakharenko, 6 pp. RUSSIAN, per, Mashin Ostraitel, No 10, 1963, pp 15, 16.

JPRS 22755

Automation of the Heat Mode of Open-Hearth Furnaces, by N. S. Skorik, 11 pp.

RUSSIAN, per, Mekh i Avtomat Proiz, No 10, 1963, pp 6-9.

JPRS 22907

Zeolites - Molecular Sieves, by P. P. Rudnikov, I. M. Petrovykh, 13 pp.

RUSSIAN, per, Priroda, No 7, 1963, pp 32-37. 9690501

FTD-TT-63-979

**Scientific
Materials & Metallurgy (Contd)**

Searching for Nickel Sulfide Deposits in the Tagilmagnitogorsk Synclinorium of the Urals, by L. M. Dmitiriyev, 9 pp. RUSSIAN, per, Razvedka i Okhrana Nedr, No 11, 1963, pp 9-14.

JPRS 23183

Selected Articles From the Czech Periodical Rudarsko-Metallurski Zbornik, No 2, 1963.

OTS 63-11450/2
PL-480

Comparative Ultrasonic Quality Tests of Forged and Rolled Cr-Pi-Mo Steel Tubes, by J. Pirs, 14 pp, (pp 89-101).

Equalization by Means of Electrical Analogy, by J. Baturic, I. Baturic, 10 pp, (pp 103-110).

Thermo-Technical Investigation of Open Hearth Furnaces, by D. Pavko, B. Sicherl, 14 pp, (pp 111-125).

The Problem of Water Accumulation in Surface Subsidences at the Velonje Lignite Mine and an Attempt to Calculate Their Extent, by Joze Brastnik, 16 pp, (pp 125-137).

Plastics, Metals and Glass in Industrial Construction, by Ladislav Sedlar. CZECH, per, Technicka Praca, Vol XV, No 10, 1963, pp 809-815.

*ACSI I-3966
ID 2204001764
519th MI Bn

Realization of A Reduction Process Lit. Chain of Reduction for Plutonium on an Industrial Scale at the Marcoule Center, by J. Kerjean, 7 pp. FRENCH, rpt, Proceedings International Conference on Grenoble, France, 1960, 1961, pp 186-192.

AEC-Tr-6012

Sealing and Welding of Carbon Materials by Means of Hydrocarbon Cracking. CEA/CENG Report PCBT 63/64, by R. Blanchard, C. Moreau, et al. FRENCH, rpt, Sixth International Congress of Pure and Applied Chemistry, London, 10-17 Jul, 1963.

*AERE-Harwell

The Fritting of Pure Oxides With Additions, by R. Pampuch. FRENCH, per, Bulletin Societe Francaise de Ceramique, Vol XLVI, 1960, pp 3-11.

*AEC

**Scientific
Materials & Metallurgy (Contd)**

- Effect of Growth Media Upon the Correspondence Between Morphology and Crystalline Structure. Interaction of Crystal and Solvent, Part I, by Raymond Kern, 12 pp.
FRENCH, per, Bulletin de l'Societe Francaise de Mineralogie et de Cristallographie, Vol LXXVIII, 1955, pp 461-474. 9218825 AEC-AI-Tr-4
- Effect of Growth Media on the Correspondence Between Morphology and Crystal Structure, Crystal and Solvant Interaction. Results of Experiements, Part II, by Raymond Kern, 25 pp.
FRENCH, per, Bulletin de l'Societe Francaise de Mineralogie et de Cristallographie, Vol LXXVIII, 1955, pp 497-520. 9218838 AEC-AI-Tr-7
- Study of Aluminum Nitride Twin Crystals, A Causal Interpretation, by R. Gindt, R. Kern, 15 pp.
FRENCH, per, Bulletin de l'Societe Francaise de Mineralogie et de Cristallographie, Vol LXXXI, 1958, pp 266-273. 9218827 AEC-AI-Tr-9
- Nature and Morphology of Transformation Products, Part I, by R. Castro, R. Tricot.
FRENCH, per, Memoires Les Scientifiques de la Revue de Metallurgie, Vol LIX, No 9, 1962, pp 571-586. BISI 3436
- Influence of Carbon and of Nitrogen, Part II, by R. Castro, R. Tricot.
FRENCH, per, Memoires Les Scientifiques de la Revue de Metallurgie, Vol LIX, No 9, 1962, pp 587-596. BISI 3436
- Quantitative Molecular Analysis by X-Ray Diffraction Application to the Determination of Iron Oxides in Sintors. Relationship With Reducibility, by J. Hancart.
FRENCH, per, Revue de Metallurgie, Vol LX, No 3, 1963, pp 273-284. CRI/T 1324
- The Use of Oxygen in the Arc Furnace, by J. Colin.
FRENCH, per, Revue de Metallurgie, Vol LX, No 10, 1963, pp 851-854. *IB 6114
- Economics of Oxygen-Producing Plants for the Steel Industry, by P. Chave.
FRENCH, per, Revue de Metallurgie, Vol LX, No 10, pp 855-858. *IB 6130

Scientific
Materials & Metallurgy (Contd)

- Variations in the Properties of Coverings of Galvanized Wires as a Function of the Rate of Galvanization, by T. Baldi, A. Pirozzi.
FRENCH, per, Zinc, Cadmium & Alliages, No 30, 1962, pp 29-33. *BISI 3573
- Process for Preparing an Iron-Aluminum Alloy, by G. Carane, P. Mouturat, et al.
FRENCH, Patent No 1,323,724, 1963. *AERE-Harwell
- The Determination of the Density of Twin Stacking Faults in Cubic Facecentred Metals, Part II, by M. Wilkens.
GERMAN, per, Acta Crystallographica, Vol XV, No 2, 1962, pp 161-166. BISI 2684
- Direct Photometric Determination of Antimony in Plain Carbon Steels, by H. Ploum.
GERMAN, Archiv fuer Eisenhuettenwesen, Vol XXXIII, No 9, 1962, pp 601-605. BISI 3516
- Influence of Silicon Additions on the Properties of Pure Iron, by K. Blankenstein.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV, No 8, 1963, pp 625-631. BISI 3500
- Enamelling of Sheet Steel, by G. Frank.
GERMAN, per, Blech, Vol IX, No 12, 1962, pp 669-673. BISI 3296
- On the Production of Mixed Coke From Hard and Brown Coals Using Oily Additives. II. Behaviour of Brown Bright Coal, by D. Mirew, D. Ruscew.
GERMAN, per, Brennstoff-Chemie, Vol XLII, No 11, 1962, pp 324-327. CRL/T 1303
- Influence of Boundary Surface Reactions on the Formation of Coko From Coal Mixtures, by H. Barking, G. Eymann.
GERMAN, per, Brennstoff-Chemie, Vol XLIV, No 1, 1963, pp 11-20. CRL/T 1323
- Fundamental Thoughts on Evaluation of the Physical Properties of Blast Furnace Coke With Special Reference to the Lump Size Factor, by H. Hoffmann.
GERMAN, per, Brennstoff-Chemie, Vol XLIV, No 3, 1963, pp 68-81. BISI 3355
- Wearing Trials of Knitted Outer Garments, by J. Miesck.
GERMAN, per, Chemiefasern in der Maschen-Industrie, Vol XI, No 6, 1961, pp 398-402. CSIRO/No 6482

**Scientific
Materials & Metallurgy (Contd)**

- Testing Relaxation Shrinkage of Fabrics, by K. Rascher.
GERMAN, per, Deutsche Textiltechnik, Vol X, No 5, 1960,
pp 256-261. CSIRO/No 6396
- The Strength Properties of Brittle Substances, by
A. Smokal.
GERMAN, per, Ergobnisse der Exakten Naturwissenschaften,
Vol XV, 1936, pp 106-188. *AERE-Harwell
- The Technical Manufacture of Calcium Metal. I.
Electrolytic Processes, by G. Wehner.
GERMAN, per, Freiberger Forschungsh., B. Vol XVII,
1956, pp 18-33. *AERE-Harwell
- Electron Microscope Investigation of Zinc Oxide, by
Hugo Strunz, Robert Meldau, 26 pp.
GERMAN, per, Heidelberger Beitrage zur Mineralogie und
Petrographie, Vol II, 1950, pp 216-234. 9218770 AEC-UCRL-Tr-982(L)
- The Use of Autoradiography for Investigating the
Structure of Alloys, by M. Radwan, 19 pp.
GERMAN, per, Isotopentechnik, Vol II, No 9, 1962,
pp 270-275. 9218741 AEC-NP-Tr-1075
- Experience With Plastic Film for Sealing Applications
in the Building Trade, by D. Rasenack.
GERMAN, per, Kautschuk und Gummi, Kunststoffe, Vol XVI,
No 3, 1963. GB/39/P1
- Some Studies in the Production of Carrier-Free Be^7 by
Bombardment of Lithium With Deuterons in the Cyclotron,
by K. Wagner, 5 pp.
GERMAN, per, Kernenergie, Vol VI, 1963, pp 121, 122.
9218822 AEC-Tr-6163
- The Manufacture of ^{35}S Labelled Sodium Thiosulphate
and Potassium Thiocyanate, by M. Kucharski, R. Plejewski.
GERMAN, per, Kernenergie, Vol VI, No 11, 1963,
pp 649, 650. *AERE-Harwell
- Influence of Temperature and Velocity on the
Deformation Properties of Pure Titanium and
Titanium Alloy TiAL 6v4, by K. Willinger, H. J. Wittwer,
17 pp.
GERMAN, per, Metall, No 2, 1963, pp 97-107. ACSI I-3528
ID 2246315
- Investigations on the Thorium-Molybdenum-Carbon
and Uranium-Molybdenum-Carbon Systems, by E. Rudy,
F. Benosovsky.
GERMAN, per, Monatshefte fuer Chemie, Vol XCIV,
No 1, 1963, pp 85-98. *AERE-Harwell

**Scientific
Materials & Metallurgy (Contd)**

Review of Alloying Technology of Heat-Treatable Steels,
by M. Kronois.

GERMAN, per, Schweizer Archiv, Vol XXVIII, No 8, 1962,
pp 298-309.

BISI 3118

Metalworking Overseas and in the USSR, by
M. Kronenberg, A. Schatz.

GERMAN, per, Technisches Zentralblatt fuer Praktische
Metallbearbeitung, Vol LVI, No 2, 1962, pp 91, 92.

CSIRO/No 6472

Residual Stresses in Hardened, Carbon Tool Steels, by
H. Buhler, E. Herrmann.

GERMAN, per, Verein Deutscher Ingenieure Zeitschrift,
Vol CII, No 4, 1961, pp 436-442.

BISI 3487

Thermal and Temperature Conductivity of Porous
Sintering Materials, by W. Richter.

GERMAN, per, Wissenschaftliche Zeitschrift der
Hochschule fuer Maschinenbau Karl-Marx-Stadt, Vol IV,
No 1, 1962, pp 37-42.

*AERE-Harwell

Conductivity and Hall Effect. IV. Copper-Nickel
Alloys, by Werner Koster, Wolfgang Schule.

GERMAN, per, Z fuer Metallkunde, Vol XLVIII,
No 11, 1957, pp 592-594.

*AEC

Investigations in the Copper-Nickel System on
Holes and Separation With the Aid of Electrical
Resistance, by W. Schule, H. P. Kehrler.

GERMAN, per, Z fuer Metallkunde, Vol LII, No 3,
1961, pp 168-179.

*AEC

The Equilibrium Phases in the Uranium-Aluminum-Iron
Alloys in the Partial Domain Uranium-UAl₂-UF₆, by
Gunter Petzow, Raghav Tank, 17 pp.

GERMAN, per, Z fuer Metallkunde, Vol LIV, No 2, 1963,
pp 91-98. 9218735

AEC-MCW-Tr-1

Full Size Fatigue Tests on Intersecting Tubes, by
W. Bader.

GERMAN, per, ZIS-Mitteilungen, Vol II, No 12, 1960,
pp 812-835.

BISI 3486

Electrothermal Production of Manganese Ferro-Alloys,
by G. Dabala.

ITALIAN, per, La Metallurgia Italiana, No 11, 1961,
pp 615-625.

CRL/T 1352

The Application of Autoradiographic Techniques in
Metallurgy and the Study of Segregations, by F. Barigozzi,
P. L. Lensi.

ITALIAN, per, La Metallurgia Italiana, Vol LV, No 4,
1963, pp 129-144.

*AERE-Harwell

**Scientific
Materials & Metallurgy (Contd)**

- Corrosion of Sap and Aluminum in Molten Bismuth,
by Dante Buttinelli, Giuseppe de Gregorio, et al, 5 pp.
ITALIAN, per, La Ricerca Scientifica, Vol I, No 2, 1961,
pp 127-130. 9217225 AEC-AI-Tr-10
- Cerium-Manganese Alloys, by Aldo Iandelli.
ITALIAN, per, Rendiconti, Vol XIII, 1952, pp 265-268. *AEC
- Descaling Speed and Polarization Characteristics, by
Y. Harada, A. Nishikawa.
JAPANESE, per, Journal of the Metal Finishing Society
of Japan, Vol XIII, No 12, 1962, pp 510-514. BISI 3357
- The Relationship Between the Crystal Structure of
Various Carbides of Thorium, Uranium and Rare Earth
Elements and the Products Obtained When These Carbides
Are Hydrolysed, by I. Kanno, S. Kachi, 10 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIII, 1962,
pp 565-569. (Draft) AEC-NP-Tr-1067
- Corrosion of Runner Bricks in Aluminum-Killed Steel
Pouring Practice, by H. Oba, K. Hiragushi.
JAPANESE, per, Tetsu to Hagane, Vol XLVI, No 9, 1960,
pp 1244-1246. BISI 3331
- On Fluoro-Carbon Surface-Active Agents, by
Saburo Konori, 13 pp.
JAPANESE, per, Yukagaku, Vol X, No 1, 1961, pp 2-5. AEC-SC-T-515
- Properties of Rubber Types in Relation to Its Structure,
by J. Royo.
SPANISH, per, Revista de Plasticos, Vol IV, 1963,
pp 49-52; 64. *AEC
- Specialization and Cooperation in Ferrous Metallurgy
in the Ukrainian SSR, by M. Tereshchenko, 9 pp.
UKRAINIAN, per, Ekonom Radianskyi, No 5, Sep, Oct 1963,
pp 13-18. JPRS 23070
- Development of the Converter Method of Steel Production,
by N. Tareyko, 5 pp.
UKRAINIAN, per, Ekonom Radianskyi, No 5, Sep, Oct 1963,
pp 19-21. JPRS 23070
- Artificial Diamonds in Ukrainian Industry, by
V. Drozhenko, 6 pp.
UKRAINIAN, per, Radianskyi Ukraina, 7 Dec 1963, p 2. JPRS 22909

Scientific
Mathematics & Data Processing

Certain Problems in the Machine Translation of Chinese,
by V. M. Zherobin, 52 pp.

RUSSIAN, bk, Nekotoryye Voprosy Mashinnogo Perevoda s
Kitayskogo Yazyka, Moscow, 1962, pp 1-88.

JPRS 23205

Mathematical Solution of the Problem of Rolling Theory,
by K. N. Shevchenko.

RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk, Metall
Gornoye Dolo, No 3, 1963, pp 127-140.

*BISI 3577

A Self-Adjusting System With Gradient Seeking by the
Auxiliary Operator Method, by L. G. Yevlanov, 17 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Tekh
Kiber, No 1, 1963, pp 113-120. 9691070

FTD-TT-63-1109

A Method of Stabilizing Automatic Control System of
Variable Structure Without Using the Derivatives of
the Error Signal, by S. V. Yemol'yanov, V. A. Taran,
33 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Tekh
Kiber, No 1, 1963, pp 155-171. 9691068

FTD-TT-63-1110

Mathematical Problems of the Quantum Theory of
Scattering for a Three-Particle System, by
L. D. Faddeyev.

RUSSIAN, per, Trudy Materialy Inst., Ak Nauk SSSR,
Vol LXIX, 1963.

*AERE-Harwell

Mathematical Modeling of Some Technological Processes
on an Electronic Digital Computer, by I. S. Lyubchenko,
11 pp.

RUSSIAN, per, Vest Moskov Univ, No 2, 1963, pp 37-43.

JPRS 23041

Solution of Algebraic Equation by the Method of
N. I. Lobachevskiy, by N. P. Aslikhov.

RUSSIAN, per, Vest Moskov Univ, No 3, 1962, pp 24-33.

*ACSI I-4194

ID 2204004964

The Transport Problem With Continuous Distribution
of Consumers, by B. N. Pshenichenyy, 27 pp.

RUSSIAN, per, Zhur Vychislitel Matemat i Matemat
Fiz, Vol III, No 6, Nov, Dec 1963, pp 1089-1102.

JPRS 22919

An Iteration Method For a Solution of the Transport
Problem by Means of a Supplemental Limitation, and an
Appraisal of the Number of Iterations, by

Yu. Yu. Finkel'shteyn, 76 pp.

RUSSIAN, per, Zhur Vychislitel Matemat i Matemat Fiz,
Vol III, No 6, Nov, Dec 1963, pp 1103-1111.

JPRS 22919

Scientific
Mathematics & Data Processing (Contd)

A Solution of the Traveling-Salesman Problem by Integer Linear Programming, by V. I. Mudrov, 5 pp.
RUSSIAN, per, Zhur Vychislitel Matemat i Matomat Fiz, Vol III, No 6, Nov, Dec 1963, pp 1137-1139.

JPRS 22919

Logical Principles in Digital Techniques, by Silvin Loskovar.
CROATIAN, per, Vojnotehnicki Glasnik, No 2, 1963, pp 92-98.

*ACSI I-3967
ID 2204001864

Comparison of Various Mathematical Methods to Calculate the Slowing-Down Density in a Heavy Medium, by F. Le Berre, R. Maarker, 42 pp.
FRENCH, rpt, 1963.

AEC-Tr-6055

A New Comprehensive Integral Criterion for Optimization of Automatic Control Systems, by Aurel Avramescu, 15 pp.
GERMAN, per, Rev Electrotechn et Energ RPR, Vol A7, No 1, 1962, pp 155-165. 9691067

FTD-TT-63-1107

Mathematical Research and Production, 10 pp.
RUSSIAN, per, Viata Economica, Vol I, No 15, 29 Nov 1963, pp 4, 6.

JPRS 23125

**Scientific
Nuclear Science & Technology**

A Universal Radiation Dose Unit, by V. I. Ivanov,
10 pp.
RUSSIAN, bk, Conference on Biological Effects of
Neutron Irradiations, Brookhaven National Laboratory,
7-11 Oct 1963.

AEC-Tr-6189

The Indium-Gallium Radiation Loop of the Irt Nuclear
Reactor, by A. Kh. Broger, Yu. S. Ryabukhin, 15 pp.
RUSSIAN, rpt, Indiy-Galliyevyy Radiatsionnyy Kontur
Yadernogo Reaktora IRT, 8-12 Sep 1959, pp 1-15.
9691011

FTD-TT-63-553

Selected Articles From the Russian Report
Joint Institute for Nuclear Research.

Studies of Photo Production by Means of Dispersion
Relations, by L. D. Solov'yev.

*AEC

P-1343, 1963.

*AERE-Harwell

Calculation of Phase Relations in the Cyclotron,
by G. V. Vyalov.

P-1383, 1963.

*AERE-Harwell

Synthesis of Element of 102 Isotope With Mass
Number 256, by E. D. Donets, V. A. Shchegolov, et al.

Cobalt-60 and Cesium-137 Gamma Sources, by E. E. Kulish,
G. M. Fradkin, 18 pp.
RUSSIAN, rpt, Proceedings of Conference of Large
Radiation Sources in Industry, Warsaw, 1959, Vol I,
pp 149-162, 1960.

AEC-Tr-6117

Conditions for Use of Probe in Soil Moisture
Determination--Influence of Apparent Density and
Salinity, by J. Damagnez.
RUSSIAN, bk, Proceedings of Conference of Radio
Isotopes in Soil-Plant, Nutrition Studies, Bombay
1962, pp 159-168.

AEC-Tr-5988

A Study of the Inelastic Scattering of Neutrons in a
Ti-Zr Alloy, by N. A. Chernoplekov, M. G. Zemlyanov,
et al, 7 pp.
RUSSIAN, rpt, Proceedings of the Symposium on Inelastic
Scattering of Neutrons in Solids and Liquids, Vienna,
Vol II, 1963, pp 173-181. 9218772

AERE-Harwell-Tr-966

**Scientific
Nuclear Science & Technology (Contd)**

**Selected Articles From the Russian Report
Proceedings of the Symposium on Radiation
Damage Solids, Vienna, Vol III, 1963.**

- Effects of Radiation On Semiconductors Overall View, by P. Baruch, 17 pp, (pp 3-13). AEC-Tr-6147
- Accelerated Diffusion in Silicon, by P. Baruch, J. C. Pfister, 9 pp, (pp 43-48). AEC-Tr-6148
- Effects of Neutron Irradiation on the Structure and Magnetic Properties of High-Permeability Manganese-and Lithium Ferrites, by E. Labusca, N. Andreyesco, 22 pp. (pp 103-120). AEC-Tr-6149
- Effects of Radiation on the Mechanical Properties of Ionic Crystals, by E. Andronikushvili, N. Politov, et al, 20 pp, (pp 147-162). AEC-Tr-6150
- Radioactive Contamination of the External Environment, by V. P. Shvedov, S. I. Shirokov, 297 pp. RUSSIAN, bk, Radioaktivnye Zapryazneniya Vneshnei Sredy, Moscow, 1962. 9218818 AEC-Tr-6049
- Motion of Isolated Charged Particles in a Magnetic Field With Cylindrical Symmetry, by V. B. Glasko, et al, 31 pp. RUSSIAN, rpt, Report of the Order of Lenin Institute of Atomic Energy and the Moscow State University, Moscow, 1963. AEC-Tr-6190
- Construction of Nuclear Installations, Book 1 and 2, by A. N. Komarovskiy, 595 pp. RUSSIAN, bk, Stroitel'stvo Yadernykh Ustanovok, Moscow, Leningrad, 1962. 9218325; 9218324 AEC-Tr-5640
- Studies in Defense Against Radioactive Fallout, by A. I. Burnazyan, 10 pp. RUSSIAN, bk, Zashchita ot Radioaktivnykh Osadkov, Moscow, 1963, pp 107-114. JPRS 23028
- Selected Articles From the Russian Periodical
Dok Ak Nauk SSSR.**
- Vol LXXI, 1950.
- Finite Representations of a Group of Unimodular Matrices, by I. M. Gel'fand, M. L. Tsetlin, 7 pp, (pp 825-828). 9218756 AEC-Tr-6132
- Finite Representations of the Group of Orthogonal Matrices, by I. M. Gel'fand, M. L. Tsetlin, 7 pp, (pp 1017-1020). 9218752 AEC-Tr-6134

Scientific
Nuclear Science & Technology (Contd)

Selected Articles From the Russian Periodical
Dok Ak Nauk SSSR. (Contd)

- Vol XCI, 1953, pp 1137-1140. AEC-SC-T-521
The Kinetic Method for Studying the Mechanism of
Chemical Reactions by Means of Tagged Atoms,
by M. B. Neyman, G. I. Feklisov, 7 pp.
- Vol XCVIII, 1954, pp 357-360. 9218769 AEC-UCRL-Tr-1002(L)
Calorimetric Measurements of the Activity
and Number of Gamma-Quanta per Decay Act, by
K. K. Aglintsev, E. A. Khol'nova, 8 pp.
- Vol C, 1955, pp 127-130. 9218767 AEC-UCRL-Tr-255(L)
Relation of Heats and Free Energies of Formation
of Tantalum Carbides to Phase and Chemical Compo-
sition, by V. I. Smirnova, B. F. Ormont, 7 pp.
- Vol CXLIX, 1963, pp 1157--. AEC-Tr-6125
The Accumulation of Seven Radioisotopes by Four
Fresh-Water Algae, by E. A. Gileva, 3 pp.
- Generalized Formula for the Mean Square Error of a
Non-Linear Function, by Yu. V. Kemnits, 10 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved Goodez i
Aerofotos, No 5, 1958, pp 75-81. AEC-Tr-6246
- Thermal Decomposition of Certain Nitrates, by
M. M. Karavayev, I. P. Kirillov, 6 pp.
RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol II, No 2, 1959, pp 231-237. 9218742 AERE-Harwell-Tr-960
- Emission of Recombination Radiation and Bremsstrahlung
From a Plasma, by L. M. Biberman, G. E. Norman.
RUSSIAN, per, Journal of Quantitative Spectroscopy
and Radiative Transfer, Vol III, 1963, pp 221-245. *AEC
- The Center of an Infinitesimal Group Ring, by
I. N. Gel'fand, 17 pp.
RUSSIAN, per, Matemat Sbornik, Vol XXVI, 1950,
pp 103-112. 9218777 AEC-Tr-6133
- It is Impossible to Conceal an Atomic Explosion, by
I. V. Rybchinskiy.
RUSSIAN, per, Nauchno-Tekh Obshch SSR, Vol IV, No 10,
1962, pp 44-46. *AEC
- Absolute Measurement of Weak Neutron Fluxes, by
G. V. Gorshkov, A. N. Sibantev, et al, 8 pp.
RUSSIAN, per, Radiokhimiya, Vol II, 1960,
pp 244-247. 9218755 AEC-NP-Tr-1083

**Scientific
Nuclear Science & Technology (Contd)**

- Polarised-Nucleus Sources for Accelerators, by
B. P. Ad'yasevich, S. T. Belyayev, et al, 13 pp.
RUSSIAN, per, Trudy Vses Konferentsii po Yaderny
Reaktsiyam pri Malykh i Srednikh Energiyakh, 1958,
pp 87-92. 9218779 AEC-NP-Tr-1071
- Deviation from the $1/v$ Law in the Cross Sections of
Slow Neutron Reactions in Light Nuclei, by
A. A. Bergman, F. L. Shapiro, 33 pp.
RUSSIAN, per, Zhur Eksper i Teoret Fiz, Vol XL,
1961, pp 1270-1281. AEC-Tr-6153
- On the Stability of Lower Valence Rare Earth
Chlorides, by O. G. Polyachenok, G. I. Novikov, 12 pp.
RUSSIAN, per, Zhur Neogan Khim, Vol VIII, No 7, 1963,
pp 1567-1573. 9218837 AEC-Tr-6157
- Explosions in Sandy Grounds, by V. M. Tsvetkov, 11 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 5, 1962,
pp 150-153. AEC-UCRL-Tr-996(L)
- Production of Radioactive Isotopes at the Boris Kidric
Institute in Vinca, by Cedomir Teofilovski,
Zdenko Di-dar, 17 pp.
CROATIAN, per, Tehnika, Vol XIX, No 1, 1964, pp 25-32. JPRS 23279
- Observation on the Recrystallization of UO_2 at Elevated
Temperatures, by M. Yunus.
CZECH, rpt, Proceedings of the Conference on Technology
of New Nuclear Materials, Prague, 1-5 Jul 1963. *AEC
- Rapid Determination of Radium by the Sorbemulsion
Method, by B. Vlcek, 8 pp.
CZECH, per, Ceskoslovenska Hygiena, Vol VII, 1962,
pp 475-481. AEC-Tr-6188
- Shielding Against Radiation Originating From the
Kema Suspension Test Reactor KSTR, Part 1, by
H. Wijker.
DUTCH, per, Atoomenergie Haar Toepassingen, Vol V,
1963, pp 187-194. *AEC

Scientific
Nuclear Science & Technology (Contd)

Selected Articles From the French Report

- Plutonium Recycling With Two Appendices, 17 pp. OTS 63-15659
(EURAE-365)
1961.
An Installation for the Preparation of Radio-
Elements by the Szilard-Chalmers Effect, by
Michel Douis, Jean Valarde. *AEC
- Utilization of the Reactors of Fontenay-aux-Roses
for Shielding Studies, by R. Beauge, J. Bland,
33 pp. AEC-Tr-6126
- Feb 1961, pp 143-161. AEC-Tr-6067
Alecto. Calculation of the Dose Received in the
Case of a Critical Excursion of 10-18 Fissions,
by J. P. Barthe, 7 pp.
1962.
Determination of the Form of Very Short Luminous
Pulses. Application to Scintillation Phenomena,
by Yves Koechlin, (pp 1-78). *AEC
- Decontamination of Surfaces by Ultrasonics, by
P. Corre, E. Mestre, et al, 19 pp. 9218765 AEC-UCRL-Tr-1009(L)
- Radiation Protection in the Experimental Pile
Marius, by G. Cohendy, 23 pp. AEC-Tr-6143
- Method of Preparing Tritiated Benzene for Scintil-
lation Measurement of Low-Level Tritium Contents
in Hydrology, by L. Pichat, 13 pp. AEC-HW-Tr-60
- Possibilities of Prolonged Generation in Air of
Iodine 131 Vapor from the Standpoint of Its Absorp-
tion by French Activated Carbons, by F. Billard,
G. Chevalier, et al, 26 pp. AEC-Tr-6230
- Study of the Variation in Efficiency of an
Alpha-Emitting Source as a Function of the Nature
of the Support and of the Applied Threshold, by
M. Mevchet, M. Boulloud, 16 pp. AEC-HW-Tr-58
- Calculation of the Shield for BEPO and Calder
Hall, by G. Brandicourt, F. Le Berre, 29 pp,
(pp 224-262). AEC-Tr-6111

**Scientific
Nuclear Science & Technology (Contd)**

Selected Articles From the French Report (Contd)

- Jan 1962.
Propagation of Fission Neutrons in Graphite and Sodium. Comparison of Calculation and Experiment in the Naide Setup, by F. Le Berre, P. Pepin, 19 pp. AEC-Tr-6092
- Calculation of the Effective Cross Section of Different Materials for 14 and 3 Mev Neutrons, by J. P. Millot, M. Hot, 25 pp. AEC-Tr-6058
- Mar 1962. AEC-Tr-6155
Formulary for the Calculation of the Shield of Power Reactors, 82 pp.
- Jun 1962, pp 226-262. AEC-Tr-6061
Practical Utilization of the Penelope Program, by F. Le Berre, 6 pp.
1963.
Contribution to the Study of the Vertical Molten Zone Process 1963, by Michel Lenzi, 63 pp. *AEC
- Dosimetry and Spectrometry of Fast Neutrons by Radioactivation, by J. Lamberieux, 68 pp. AEC-HW-Tr-59
- Metallography: Thermal Etching, by N. Housseau, D. Calais, 17 pp. AEC-HW-Tr-62
- Feb 1963. AEC-Tr-6060
Evolution of Gamma Flux During a Power Overrun in a Light Water Reactor, by C. Girard, M. Hot, 14 pp.
- May 1963. AEC-CONF-194-2
Radiation Chemistry of Ammonia Synthesis of Hydrazine, by J. R. Puig, E. Schwarz, 39 pp.
- Aug 1963. AEC-Tr-6008
Radiation Control Around the Proton Synchrotron Saturne, by H. Joffre, J. Lamberieux, 43 pp.
- Determination of the Efficiency of a Filter by Means of Radioactive Ions of Known Dimensions, by J. Pradel, F. Billard, et al.
FRENCH, rpt, International Symposium on Radioactive Pollution of Gaseous Media, Saclay, 12-16 Nov 1963. *AERE-Harwell
- Purification of Uranium by Electron Bombardment Floating Zone Melting, by Jacques Pascal, Paul Lecombe, 21 pp.
FRENCH, rpt, Journal of Nuclear Materials, Vol IX, 1963, pp 155-169. AEC-Tr-6243

Scientific
Nuclear Science & Technology (Contd)

- Effects of Neutron Irradiation Upon the Thermal Conductivity of Nuclear Graphites, by M. Bocquet, G. Micaud.
FRENCH, rpt, Journal of Nuclear Materials, Vol X, No 3, 1963, pp 215-223. *AERE-Harwell
- Study of Those Factors Influencing Corrosion of Aluminum in a Nuclear Reactor, by P. Renders, G. Spaepen.
FRENCH, rpt, Memoirs Presented at the Third Congress of the European Federation on Corrosion, Section III, Protection by Inorganic Coatings, Brussels, 4-6 Jun 1963. *AEC
- The Existence of the Uranyl Ion, by C. Duval.
FRENCH, rpt, Proceedings of Symposium on Analytical Chemistry, England, 9-12 Apr 1962, 1963, pp 388-393. *AERE-Harwell
- Fuel Cycles in Heavy-Water Gas-Cooled Power Reactors, by R. Naudet, M. Salesse.
FRENCH, rpt, Proceedings of the Symposium on Fuel Cycles for Power Reactors, Baden-Baden, 9-14 Sep 1963. *AEC
- Mutual Energy of Two Dislocations, by J. Blin.
FRENCH, per, Acta Metal, Vol III, 1955, pp 199, 200. AEC-Tr-6065
- Calorimetric Investigations Concerning the Transition in NaNO_3 and Its Melting Process, by Arvo Mustajoki, 17 pp.
FRENCH, per, Annales Acad Sci Fennicae, Ser A, Vol 1, No 5, 1957, pp 1-17. AEC-AI-Tr-18
- The Specific Heat of Cesium Nitrate in the 50-450 Degree C Temperature Interval, as Well as Its Transition and Melting Heat, by Anthony Cornell, 12 pp.
FRENCH, per, Annales Acad Sci Fennicae, Ser A, Vol 1, No 7, 1957, pp 1-12. AEC-AI-Tr-17
- Specific Heat and Transition Heats of the Various Modifications of Rubidium Nitrate as Well as Their Heat of Fusion, by Arvo Mustajoki, 16 pp.
FRENCH, per, Annales Acad Sci Fennicae, Ser A, Vol 1, No 9, 1958, pp 3-16. AEC-AI-Tr-15
- Migration of S^{35} in Sodium Chloride in an Electric Field, by Marius Chemla.
FRENCH, per, Compte Rendus, Vol CCXXXIV, 1952, pp 2064-2066. *AEC

**Scientific
Nuclear Science & Technology (Contd)**

**Selected Articles From the French Periodical
Energia Nucleare.**

- Vol IX, 1962, pp 581-594. *AEC
Nuclear Evaporation, by U. Facchini.
- Vol V, 1963.
Extraction of Plutonium. Decladding Plant, by
M. Alles, 16 pp, (pp 257-262). AEC-Tr-6156
- Industrial Assembly for Plutonium Extraction the
Plant--Its Development and Its Auxiliaries, by
R. Curillon, M. Coeuro, 35 pp, (pp 271-381). AEC-Tr-6154
- Department for the Treatment of Effluents Problems,
Operation, Results, by N. Fernandez, 24 pp,
(pp 282-290), 9218757 AEC-Tr-6164
- Apparatus for the Measurement of Vapor Pressures
Up to 20 kg/cm² and 500°C, by R. Bessouat,
H. Chavanel, et al, 14 pp.
FRENCH, per, Le Journal de Physique-Physique Appliquee,
Vol XXIV, No 3, 1963, pp 39A-44A. 9218826 AEC-AI-Tr-6
- Electrostatic Energy of Ionic Lattices, by
Felix Bertaut, 20 pp.
FRENCH, per, Journal Physique et Radium, Vol XIII,
1962, pp 499-505. AEC-AI-Tr-14
- Interstitial Atoms in Face-Centered Cubic Crystals,
Particularly in Copper, by A. Seeger, E. Mann, 39 pp.
FRENCH, per, Physics of Chemical Solids, Vol XXIII,
1962, pp 639-658. AEC-AI-Tr-12
- Process for the Manufacture of Nuclear Fuel Materials
and Products and the Materials and Products Obtained
by Means of this Process, by P. Galmiche, A. Havert.
FRENCH, Patent No 1,198,870,1959. *AERE-Harwell
- Polarization of Electrons by Atomic Beams, by
Hugo Friedmann, 43 pp.
GERMAN, rpt, Munich, 1961. AEC-SLAC-Tr-2
- Physical Principles of Quantitative Mass-Spectrographic
Analysis With a Photoplate, by H. Wagner, 6 pp.
GERMAN, per, Acta Imeko, 1961, pp 1-7. 9218736 AEC-Tr-5984
- The Use of Radioactive Isotopes in the Mineral Oil
Industry, by R. Siering.
GERMAN, per, Atompraxis, Vol IX, No 10, 1963,
pp 424-428. *AERE-Harwell

Scientific
Nuclear Science & Technology (Contd)

- Safety Requirements for the Site of Atomic Power Plants, by F. Schweiger, J. Wohler, et al, 11 pp.
GERMAN, per, Atomwirtschaft, Vol VII, 1962, pp 338-340. AEC-Tr-6245
- Interpretation of Dose Effect Relations in Radiation Biology, by O. Nag, A. Kellerer, 28 pp.
GERMAN, per, Biophysik, Vol I, 1963, pp 20-32. AEC-UCRL-Tr-1016
- Concerning the Causes of the Balancer-Amplitude Oscillations, by G. Glaser, 24 pp.
GERMAN, per, Jahrbuch der Deutschen Gesellschaft fuer Chronometrie, 1956, pp 23-31. 9218763 AEC-SC-T-517
- On the Dynamics of the Pallet Escapement, by G. Glaser, 45 pp.
GERMAN, per, Jahrbuch der Deutschen Gesellschaft fuer Chronometrie, 1956, pp 49-64. 9218762 AEC-SC-T-518
- Paper Chromatographic Separation of Radionuclides With Iron III-Hydroxide as Carrier, by H. H. Stamm, H. J. Schroeder, 7 pp.
GERMAN, per, Journal of Chromatology, Vol X, 1963, pp 392-395. 9218738 AEC-Tr-6138
- Polarographic Investigations by Regulating the Dropping Time By Broaking Off the Drop. I. Dependency of Polarographic Currents On Dropping Time, by D. Wolf.
GERMAN, per, Journal of Electroanalytical Chemistry, Vol V, 1963, pp 189-194. *AEC
- Study of Fluorescence Polarization of Conjugated Polyethylene Imine, by Ph. Wahl, 7 pp.
GERMAN, per, Journal of Polymer Science, Vol XXIX, 1958, pp 375-380. 9218759 AEC-AI-Tr-5
- Plant Scale Production of Carrier-Free P³², by R. Muenze, L. Baraniak, et al.
GERMAN, per, Kernenergie, Vol VI, 1963, pp 489-493. *AEC
- A Simple Method for Determining Lead Equivalents, by E. Becker, F. Vorsprach.
GERMAN, per, Kernenergie, Vol VI, 1963, pp 509-513. *AEC

Scientific
Nuclear Science & Technology (Contd)

Concerning the Stability of Uranium Carbide and the Carbon-Stable Areas in the Partial System of UC With ZrC, HfC, NbC and TaC, by E. Rudy, R. Benesovsky, 26 pp.
GERMAN, per, Monatshoft fuer Chemie, Vol XCIV, 1963, pp 204-224.

AEC-Tr-6100

The Decay Scheme of Ru⁹⁵, by Peter Riehs, Hans Warhanek.
GERMAN, per, Nuclear Physics, Vol XLIV, 1963, pp 164-172.

*AEC

Frequency Displacements in the System Water/p-Dioxane, by Hartmut Fritzsche, 7 pp.
GERMAN, per, Spectrochimica Acta, Vol XVII, 1961, pp 353-355.

AEC-UCRL-Tr-994(L)

Thermodynamics of Phase-Transformations in Ternary Systems, by E. Rudy.
GERMAN, per, Z fuer Metallkunde, Vol LIV, No 2, 1963, pp 112-122; No 4, pp 213-223.

*AERE-Harwell

Temperature Dependence of the Mobility Difference Thallium Isotopes in Molten TlCl, by W. Fischer, K. Heinzinger, et al, 14 pp.
GERMAN, per. Z fuer Naturforschung, Vol XVIIa, 1962, pp 799-805.

AEC-AI-Tr-21

Studies on the Selective 1 N Oxidation of Nucleic Bases in Nucleic Acids, by F. Cramer, H. Seidel, 5 pp.
GERMAN, per, Z fuer Naturforschung, Vol XVIIb, No 6, 1963, pp 510, 511.

NIH-11-11-63

Ion Conductivity Pressure Slope of Anomalous AgBr and AgI Mixed Crystals, by K. Wagener.
GERMAN, per, Z fuer Physikalische Chemie, Vol XXIII, 1960, pp 305-312.

*AEC

Ion and Electron Conduction in Binary Oxides and Their Study by Means of EMF Measurements, by Hermann Schmalzried.
GERMAN, per, Z fuer Physikalische Chemie Neue Folge, Vol XXXVIII, 1963, pp 87-102.

*AEC

Use of Lead Glucerals for Highly Effective Biological Shielding, by E. Fumagalli.
ITALIAN, per, Energia Elettrica, Vol XL, 1963, pp 559-565.

*AEC

Scientific
Nuclear Science & Technology (Contd)

Microfractographic Observations of Sintered Uranium Oxide, by A. Bussi, G. Camona, et al.
ITALIAN, per, Energia Nucleare, Vol IX, No 9, 1962, pp 514-528.

*AERE-Harwell

Scattering of Gamma-Ray, I. Scattered Gamma-Rays in the Labyrinth of Shielded Cobalt-60 Irradiation Facilities, by Tokishi Kaminishi.
JAPANESE, per, Nagoya Kogyo Gijutsu Shikensho Hokoku, Vol I, 1961, pp 626-635.

*AEC

Sensitivities of Fuji Badge Film To B-Rays and Evaluation of B-Rays Dosage, by I. Miyanaga, K. Bingo, et al.
JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol V, No 6, 1964, pp 497-503.

*AERE-Harwell

Theory of Isotope Separation by Two-Phase Distribution, by H. Kaikhandu, K. Kurisu.
JAPANESE, per, Nippon Kagaku Zasshi, Vol LXXXIV, 1963, pp 470-473.

*AEC

Automatic Adiabatic Microcalorimeter for the Measurement of Radioactivity, by A. Hilf.
ROMANIAN, per, Academia Republicii Populare Romine, Institute Fiz, Studii Cercetari Fiz, Vol VI, 1955, pp 373-376.

*AEC

Bulletin of the Boris Kidrich Institute of Nuclear Research.
SERBOCROATIAN, rpt, Bilten Instituta za Nuklearne Nauke Boris Kidric, Vol XV, 1964. (Cover-to-Cover)

*AEC

Numerical Analysis of the Problem of N Bodies, by Jose Renato Iturriaga de la Fuente, 115 pp.
SPANISH, rpt, Universidad Nacional Autonoma, Villa Obregon, 1963.

AEC-UCRL-Tr-960(L)

Scientific
Physics

Selfexcited Oscillations, by A. A. Kharkevich, 181 pp.
RUSSIAN, bk, Avtokolebaniya, Moscow, 1953, pp 1-170.
9691007-V

FTD-TT-63-748

On the Theory of Photodisintegration of the Light
Nuclei With Emergence of Fast Deuterons, by
V. V. Balashov, V. N. Fetisov.
RUSSIAN, rpt, Fizicheskiy Institut imeni P. N. Lebedeva,
Laboratoriya Fotomezonnnykh Protseessov (A-29), Ak Nauk
SSSR, 1963, pp 1-16.

*Navy/NRL

New Problems in the Physics of Glass, by V. V. Tarasov,
225 pp.
RUSSIAN, bk, Novye Voprosy Fiziki Stakla, Moscow,
1959.

OTS 63-11004
PL-480

Colliding Beams of High Energy Protons in an
Accelerator With Non-Linear Focusing, by Yu. F. Orlov,
36 pp.
RUSSIAN, rpt, Problems of Elementary Particle
Physics, Armenian, 1962.

AEC-NP-Tr-1062

Theory of the Phenomena of Atmospheric Electricity,
by Ya. I. Fronkol', 167 pp.
RUSSIAN, bk, Teoriya Yavleniy Atmosfernogo Elektrichestva,
1949, pp 1-155. 9690916-V

FTD-TT-63-595

Protection From Radioactivity, by S. N. Ardashnikov,
S. M. Gol'din, 533 pp.
RUSSIAN, bk, Zashchita ot Radioaktivnykh Izlucheniya,
Moscow, 1961, pp 1-420. 9691005-V

FTD-TT-62-1692

The Determination of the Penetration of Helium Through
a Tube Wall, by I. S. Lupakov, Yu. S. Kuz'michev, et al,
5 pp.
RUSSIAN, per, Atomnaya Energi, Vol XV, No 1, 1963,
pp 79, 80. 9218750

AEC-Tr-6237

Effect of High Pressure on Thermal Properties of
a Solid Body, by K. P. Rodionov, 10 pp.
RUSSIAN, per, Fiz Metal i Metalloy, Vol III, 1956,
pp 26-30.

AEC-UCRL-Tr-997(L)

Method of Additional Strains in Problems of Plasticity
Theory, by I. A. Birger, 19 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh
i Mash, No 1, 1963, pp 47-56. 9691027

FTD-TT-63-642

**Scientific
Physics (Contd)**

Experimental Study of the Surface Friction on a Plane Plate in a Supersonic Flow in the Presence of Heat Exchange, by L. V. Kozlov.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 2, 1963, pp 11-19.

*Navy/APL J315

Synthesis of Systems to Accomplish Optimum Filtration, by A. A. Gorskiy, 19 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk Tekh Kibor, No 1, 1963, pp 42-50. 9691064

FTD-TT-63-1108

The Theory of Planigons, by B. N. Delaunay, 39 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Matemat, Vol XXIII, 1959, pp 365-386. 9218850

Emmanuel Coll
Res Lang Ctr
E-T-R-63-9

Interaction of Liquid and Solid Phases in the Agglomeration of Iron Ores and Concentrates, by V. I. Korotich.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved Chern Metal, No 11, 1963, pp 22-29.

*IB 6156

A Millisecond Matrix Time Meter, by G. I. Mishin, 12 pp.

RUSSIAN, per, Pribory i Tekh Eksper., No 5, 1962, pp 106-112.

AEC-SC-T-525

Coloration of Corundum and Methods for Its Study, by E. G. Valyashko, S. V. Grun-Grzhimaylo.

RUSSIAN, per, Proceedings of the Institute of Crystallography AS. USSR, No 8, 1953, pp 111-128.

*Navy/APL J321

The Isotopic Composition of Lead in Ancient Rocks, by E. V. Sobotovich, S. M. Grashchenko, et al, 7 pp.

RUSSIAN, per, Radiokhimiya, Vol V, 1963, p 157. 9218747

AEC-Tr-6136

Formation of Conditioned Reflex Responses to a Magnetic Field in Fish, by Yu. A. Kholodov, 13 pp.

RUSSIAN, per, Trudy Soveshchaniya po Fiziologii Ryb, Ak Nauk SSSR, No 8, 1958, pp 82-89. 9217322

NASA TT F-190

Selected Articles From the Russian Periodical Zhur Eksper i Teoret Fiz.

Vol XVIII, 1948, pp 19-28.

AEC-Tr-6179

Wave Flow of Thin Layers of a Viscous Liquid. Part 2. Flow at Contact With a Gas stream and Heat Transfer, by P. L. Kapitsa, 13 pp.

Vol XX, 1950, pp 497-509. 9218773

AERE-Harwell-Tr-958

Physical Properties of Rock Salt Type Lattices Consisting of Deformed Ions, by K. B. Tolpygo, 17 pp.

**Scientific
Physics (Contd)**

**Selected Articles From the Russian Periodical
Zhur Eksper i Teoret Fiz. (Contd)**

- Vol XLV, 1963.
Phase-Shift Analysis of Nucleon-Nucleon Scattering at Energy 147 MeV, by Yu. M. Kazarinov, V. S. Kiselev, et al, 6 pp, (pp 637-642). 9218740 AERE-Harwell-Tr-963
- On Resonance Reflection of X-Rays From the Surface, by M. I. Podgorotskiy, (pp 780-782). AEC-Tr-6180
- Integral-Moment Method of Solving the Boltzmann Kinetic Equation, by M. N. Kogan, 11 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 3, 1963, pp 36-40. 9699493 FTD-TT-63-1033
- Resonance Phenomena During the Motion of a Satellite Relative to the Center of Mass, by F. L. Chernous'ko.
RUSSIAN, per, Zhur Vychislitel Matemat i Matematich Fiz, Vol III, No 3, 1963, pp 528-538. *Navy/API J317
- Sintering of Tungsten Metal Powder, by Toruhiko Yao, Yukio Anekoji, 11 pp.
CHINESE, per, Funtai Oyobi Funmatsuyakin, Vol IX, 1962, pp 163-168. AEC-Tr-6168
- Initial Sintering of Tungsten. Relation Between Linear Shrinkage and Particle Size, Sintering Temperature and Time, by Toruhiko Yao, 9 pp.
CHINESE, per, Funtai Oyobi Funmatsuyakin, Vol IX, 1962, pp 217-221. AEC-Tr-6167
- Injection and Accumulation of High-Energy Particles in a Magnetic Mirror System, by Cheng-wu Li, 14 pp.
CHINESE, per, Sheng-li Hsueh-pao, Vol XVIII, 1962, pp 586-593. AEC-Tr-6131
- Checking Corrections on the 60 Cm Paraboloidal Mirror, by Shih-chieh Yang, Te-p'ei Li.
CHINESE, per, T'ien-wen Hsueh-pao, Vol X, No 1, 1962, pp 24-29. *FTD-TT-64-170
- Selection of Reflecting Mirror Materials and the Possibility of a Ceramic Mirror, by Shih-chieh Yang.
CHINESE, per, T'ien-wen Hsueh-pao, Vol X, No 1, 1962, pp 30-33. *FTD-TT-64-170
- Instantaneous Observation of Spectral Excitation Processes in a Spark, by Shao-min Wang, 11 pp.
CHINESE, per, Wu-li Hsueh-pao, Vol XVIII, 1962, pp 594-599. AEC-Tr-6159

Scientific
Physics (Contd)

Selected Articles From the Dutch Periodical
Nederlandsch Tijdschrift voor Natuurkunde.

*AERE-Harwell

Vol XXVI, No 1, 1960, pp 1-15.
The Construction of Powerful Electromagnets,
by D. De Klerk.

Vol XXVI, No 2, 1960, pp 65-82.
The Construction of Powerful Electromagnets,
by D. De Klerk.

Vol XXVI, No 3, 1960, pp 345-364.
The Construction of Powerful Electromagnets,
by D. De Klerk.

Vol XXVII, No 4, 1961, pp 353-374.
The Construction of Powerful Electromagnets,
by R De Klerk.

Selected Articles From the French Report.

Jan 1960.
Application of the Two-Group Theory to
Shield Calculations, by M. Hot, J. P. Millot.

AEC-Tr-6042

Mar 1960.
Approximation of a Known Function by a Finite
Number of Moments, by H. Campagnolo, 6 pp.

AEC-Tr-6041

Two-Group Theory--Infinite Plane Source. Two
Media by F. Le Berre, J. P. Millot.

AEC-Tr-6043

Two-Group Theory--Infinite Plane Source. Three
Media, by J. Brisbois, F. Le Berre.

AEC-Tr-6045

1962.
Desorption Under Nitrogen or Hydrogen of Oxygen
Chemisorbed on Graphite, by H. Le Bail.

*AERE-Harwell

1963. 9218839
Metallography: Thermal Etching, by N. Housseau,
D. Calais, 8 pp.

AEC-HW-Tr-62

Polyphase Annular Electromagnetic Induction Pumps
for Liquid Metals, by E. Cambillard.
FRENCH, rpt, Colloque de la Societe Europeene
d'Energie Atomique sur les Metaux Liquides,
30 Sep-2 Oct 1965.

*AEC

**Scientific
Physics (Contd)**

Theory of Annular Electromagnetic Pumps and Comparison With Results of Experimentation, by B. Schwab.
FRENCH, rpt, Colloque de la Societe Europeenne d'Energie Atomique sur les Metaux Liquides, 30 Sep-2 Oct 1963.

*AEC

Dosage of Carbon Traces in Sodium, by J. Sannier, A. Vasseur.
FRENCH, rpt, Proceedings of the Conference on Metals and Liquids, 30 Sep-2 Oct, 1963.

*AEC

Some Results of Irradiations of the Fuel Elements for Rapsodie, by J. P. Mustelier.
FRENCH, rpt, Proceedings of the Symposium on Radiation Damage Solids Reactor Materials, Vienna, 1963, pp 163-183.

*AEC

Methods and Results of Study of Warm Hypersonic Flow by Means External to the Flow, by A. Auriol, 24 pp.
FRENCH, rpt, Technical Note T 8/62 by the Franco-German Research Institute of Saint Louis, 1962, pp 5-21.

Navy Tr 3713
NRL 958

Diffusion of Radioactive Ions in Crystals, by Marius Chemla.
FRENCH, per, Annales de Physique, Vol I, No 13, 1956, pp 959-1002.

*AEC

Experimental Study of Contact Thermal Resistances, by H. Cordier, 16 pp.
FRENCH, per, Annales de Physique, No 1, 2, 1961, pp 5-19.

DDC RSIC-116

Harnessing the Mechanical Energy of the Waves, by M. Gariel.
FRENCH, per, La Houille Blanche, Vol XII, No 5, 1957, pp 778-783.

*AERE-Harwell

Intergranular Diffusion and the Structure of Intergranular Joints in Alkali Metal Halides. I. Fritting. II. Diffusion., by Jean Cabane.
FRENCH, per, Journal of Chimie Physique, Vol LIX, 1962, pp 1123-1141.

*AEC

Effect of Ionizing Radiations Upon Aqueous Solutions of Benzoquinone and Hydroquinone, by C. Vermeil, G. Roquet, et al, 26 pp.
FRENCH, per, Journal of Chimie Physique, vol LX, 1963, pp 659-666.

AEC-CP-Tr-1072

**Scientific
Physics (Contd)**

Plastic Deformation and Rupture of Uranium Single Crystals in Tension At -196 Degrees C, by A. Lemogne, P. Lacombe, 8 pp.
FRENCH, per, Journal of Nuclear Materials, Vol VIII, 1963, pp 116-125. 9216858

AEC-Tr-6184

Geiger-Muller Counters With Glass Walls and External Graphite Coating, Filled With Pure Mercury Vapour and Operating at Elevated Temperatures, by J. Bourrieau.
FRENCH, per, Journal de Physique, Vol XXIV, No 1, 1963, pp 71-73.

NZDIA

Lectures on Gas Theory, by Ludwig Boltzmann.
German, bk, 490 pp.

Univ of Calif Press

Investigation of the Occurrence of Noises During Tension Tests, by Joseph Kaiser.
GERMAN, rpt, 1950.

*AEC

A New Large-Mathieu Balance for the Measurement of Magnetic Saturation, by Heinrich Lange, Rudolf Kohlhaas, et al, 15 pp.
GERMAN, rpt, Cologne Universitat Institut fuer Theoretische Physik, 1962.

AEC-Tr-6165

On the Measuring and Calculation of the Resonance Absorption of Gold, Uranium, and Thorium Foils, by Manfred Brose, 28 pp.
GERMAN, rpt, Zur Messung und Berechnung der Resonanzabsorption in Gold, Uran-und Thourapollen, 1962, 139 pp. 9218748

AEC-Tr-6135

One-Dimensional Disorder in Crystals and Its Effect On X-Ray Interferences, III. Comparison of Calculations With Experimental Results, by Heinz Jagodzinski, 17 pp.
GERMAN, per, Acta Crystallographical, Vol II, 1949, pp 298-304.

AEC-AI-Tr-20

Measurement of Gradation of Color Films, by Gerd Heymer, Dieter Sundhoff, 12 pp.
GERMAN, per, Agfa Research Bulletin, 1935, pp 62-76.

SLA 63-18311

The Application of Thermodynamics in the Valuation of Creep Strength Investigations of Steel, by W. Siegfried.
GERMAN, per, Archiv fuer Eisenhuettenwesen, Vol XXXIV, No 10, 1963, pp 713-726.

*BISI 3575

Experimental Studies of the Mode Action of the Pressure Chamber, 7 pp.
GERMAN, per, Archiv fuer Physikalische Therapie, Vol VI, 1954, pp 115-119.

NIH 11-22-63

**Scientific
Physics (Contd)**

Spherical High-Temperature Fuel Element, by
L. Ruchor, G. Spenor, 5 pp.
GERMAN, per, Atomwirtschaft, Vol VIII, 1963,
pp 370, 371.

AEC-Tr-6080

Selection of a Regression Surface for the
Adjustment of the Intensity of Illumination
in an Air-Conditioning Container, by A. Rotti, 12 pp.
GERMAN, per, Biometrische Z., Vol IV, 1962,
pp 263-273.

AEC-Tr-6236

The Kinetics of Radiation Effects, by A. Kellerer,
O. Hug, 35 pp.
GERMAN, per, Biophysik, Vol I, 1963, pp 33-50.
9218766

AEC-UCRL-Tr-1017

Optical Brighteners, by Peter Wurthle, 8 pp.
GERMAN, per, Chemische Technik, Vol XIII, No 10,
1961, pp 598-603.

SLA 63-14383

The Effect of the Sampling Time When Determining
the Maximum Concentrations of a Gas Diffusing in
a Turbulent Flow, by F. Wippermann, 45 pp.
GERMAN, per, International Journal of Air and
Water Pollution, Vol IV, No 1, 2, 1961, pp 1-23.
9218845

Emmanuel Coll
Res Lang Ctr
E-T-G-63-25

The Effect of Sound Field Interference on Flaw
Detection in Solids, by F. Linhardt,
GERMAN, per, Metall, Vol XII, Part 1, 1958,
pp 1085-1092.

Navy Tr 3711
USRI. 35

The Effect of Sound Field Interference on
Flaw Detection in Solids, by F. Linhardt.
GERMAN, per, Metall, Vol XIII, Part 2, 1959,
pp 1133-1138.

Navy Tr 3711
USRI. 35

The Bauschinger Effect and Its Practical
Applications, by W. Spaeth, 15 pp.
GERMAN, per, Metallurgy, Vol VIII, No 1/2,
1954, pp 25-29.

AEC-SC-T-524

Decoupling Bridges for In-Paralled Connection
of Transmitters in the Short and Ultra-Short
Wavelengths Region, by Buschbeck, W. Burkhardtmaier.
GERMAN, per, Nachrichtentechnische Zeitschrift,
Vol XV, No 4, 1962, pp 181-189.

*Navy/NRL

**Scientific
Physics (Contd)**

**Decoupling for In-Parallel Connection of Transmitters
in the Intermediate and Long Wavelength Region, by
W. Bushchbock.**

GERMAN, per, Nachrichtentechnische Zeitschrift,
Vol XV, No 5, 1962, pp 223-231.

*Navy/NRL

**The Effect of the Maximum Optical Path Length
Difference and of the Noise in Interferometric
Spectroscopy, by M. Schubert.**

GERMAN, per, Optik, Vol XVIII, No 3, 1961,
pp 147-156.

CSIRO/No 6473

**Use of the Fresnel Zone Plate For Testing, by
A. Lohmann, 9 pp.**

GERMAN, per, Optik, Vol XVIII, No 10, 11, 1961,
pp 514-518. 9218847

Emmanuel Coll
Res Lang Ctr
E-T-G-63-32

**On the Elastic After-Effect, Elastic Hysteresis
and Internal Friction, by H. Jordan.**

GERMAN, per, Physikalische Zeitschrift, Vol XXIV,
No 22, 1924, pp 579-584.

*Navy/APL J319

**Sound Absorption in Solid Bodies, by L. Landau,
G. Rumer, 10 pp.**

GERMAN, per, Physikalische Zeitschrift der Sowjetunion,
Vol XI, No 18-25, 1937. 9218848

Emmanuel Coll
Res Lang Ctr
E-T-G-63-24

**Present Interantional State of Technical Hardness
Testing, by K. Meyer.**

GERMAN, per, Schweizer Archiv fuer Angewandte
Wissenschaft Technik, Vol XXVIII, No 1, 1962,
pp 7-28.

CSIRO/No 6148

**Calculation of Calibration Curves: X-Ray Flourescence
Intensity Concentration in Compounds, by P. Muller.**
GERMAN, per, Spectrochimica Acta, Vol XVIII, 1962,
pp 123-133.

CRL/T 1301

**Fish Scales - A Defect of Enameling Steels, by
Rudolf Marker.**

GERMAN, per, Sprechsual, Vol XCV, 1962, pp 316-325.

*AEC

**A Device To Be Used as a X-Ray Microanalyser,
X-Ray Shadow Microscope or Electron Bending Device
as Desired and Experiments on Al-Cu and Ge, by
O. Bruemmer, K. H. Brauer.**

GERMAN, per, Z fuer Angewandte Physik, Vol XVI, No 1,
1963, pp 27-37.

*BISI 3580

**Scientific
Physics (Contd)**

Numerical Integration of N-Body Problems for Star Clusters, Parts I and II, by S. von Hoerner.
GERMAN, per, Z fuer Astrophysik, Vol L, 1960, pp 184-214; Vol LVII, 1963, pp 47-82.

*AEC

Needle Counter and Counting Tube in Metal-Lographic Surface Investigations, by J. Draker, 21 pp.
GERMAN, per, Z. fuer Physik, Vol CXXV, 1949, pp 739-756.

AEC-SC-T-519

Investigations With the Geiger Needle Counter on Treated Worked NON-Metals, by J. Kramer, 11 pp.
GERMAN, per, Z. fuer Physik, Vol XXVIII, 1950, pp 538-545.

AEC-SC-T-520

Determination of Diffusion Coefficients Taking Into Account A Phase Boundary Reaction, by R. Haul, G. D. Duernben, 24 pp.
GERMAN, per, Z. fuer Physikalische Chemie, Vol XXXI, 1962, pp 309-320.

AEC-UCRL-Tr-962(L)

Physical Principles of Quantitative Mass-Spectrographic Analysis With a Photoplate, by H. Wagner.
HUNGARIAN, per, Memzetkozi Herostech. Konf. Koziemenyei, 1961, pp 526-535.

AEC-Tr-5984

Instantaneous Observation of Spectral Excitation Processes in a Spark, by Wang Shao-min, 10 pp.
JAPANESE, per, Acta Physica Sinica, Vol XVIII, 1962, pp 594-599. 9218830

AEC-Tr-6130

A Method for Measuring Photoelastically Stresses in Metals, by Masataka Nisida, 18 pp.
JAPANESE, per, Journal Applied Physics, Vol XXXI, No 10, 1962, pp 823(49)-829(55).

Navy Tr 3714
NRL 961

On the Mechanism of the Death of Bacteria by Low Temperature Treatment, by Toru Sato, 56 pp.
JAPANESE, per, Teion Kagaku, B, Vol XII, 1954, pp 39-61.

AEC-Tr-6176

General Solution for the 30° - 60° - 90° Plate by Means of the Eigen Transforms, by Roman Solecki.
POLISH, per, Archiwum Inzynierii Ladowej, Vol VI, 1960, pp 203-235.

*Navy/APL J316

**Scientific
Physics (Contd)**

**Two-Cascade Wind Tunnel for High-Velocity-Flow
Research, by Wojciech Brzozowski.**

**POLISH, per, Polska Ak Nauk Instytut Maszyn
Przeplywowych, Prace, 1961, pp 13-41.**

***FTD-TT-64-96**

**High Voltage Transformer With Insulating Body
in the Leakage Path and Method for the Production of
Said Insulating Body, 11 pp.**

SWISS, Patent No 241,515, Aug 1946.

OTS 63-15454

**Volta Potential Differences Between Electrolyte
Solutions and Activity Co-Efficients of Separate
Ions, by N. A. Izmaylov, Yu. F. Ryhkin, 8 pp.**

**UKRAINIAN, per, Donovidi Ak Nauk Ukrain RSR, No 1,
1962, pp 69-73.**

AEC-Tr-6244

**Scientific Research in Physics at Higher Educational
Institutions of the Ukraine, by O. Z. Zhmuds'kiy, 22 pp.**

**UKRAINIAN, per, Ukrain Fiz Zhur, Vol VIII, No 4,
1963, pp 405-417.**

**NLL Tr Bulletin
Vol V, No 12, 1963**

**Scientific
Miscellaneous**

- Miracle of Our Time--Cybernetics and Problems of Development, by B. V. Akhlininskiy, N. I. Khralenko, 108 pp.
RUSSIAN, bk, Chudo Nashogo Vremeni, Kibernetika i Problem Razvitiya, Leningrad, 5 Jul 1963, pp 1-140. JPRS 23132
- Cybernetics and Reliability, by Aksel' Ivanovich Berg, 31 pp.
RUSSIAN, bk, Kibernetika i Nadezhnost', Moscow, 1963, pp 1-32. JPRS 23275
- Military Application of Cybernetics, Chapters I and II, by M. N. Goncharenko, 44 pp.
RUSSIAN, bk, Kibernetika v Voyennom Dele, Moscow, 1963. JPRS 23324
- The Probability Approach to the Design of a Synthesis Unit for a Reading Machine, by M. O. Gliklikh, A. D. Krisilov, 7 pp.
RUSSIAN, per, Avtomat i Telemekh, Vol XIV, No 11, 1963, pp 1514-1518. JPRS 23145
- Selected Articles From the Russian Periodical Dok Ak Pedagog Nauk RSFSR, No 1, 1963. JPRS 23228
- Ways of Studying the Fundamentals of Cybernetics and Automation in the Secondary School, by V. S. Lednev, 6 pp, (pp 5-8).
- Teaching of Programming in Industrial Training Schools, by V. M. Monakhov, 6 pp, (pp 9-12).
- Recognition of Signal Systems, by E. D. Pozyanskaya, 6 pp, (pp 73-76).
- Studying the Mechanisms of Simultaneous Recognition. III. Signs Used for Simultaneous Recognition, by M. S. Shekhter, 6 pp, (pp 77-80).
- Effect of Vestibular Stimulation on Certain Body Functions, by G. V. Altukhov, V. I. Kopanov, et al, 6 pp, (pp 97-100).
- The Transfer of Attention and Individual-Typological Properties of Higher Nervous Activity, by I. V. Polyakov, 6 pp. (pp 113-116).
- Coordination of Scientific-Research Work in the Field of Pedagogical Sciences, by A. I. Markushevich, 7 pp.
RUSSIAN, per, Sovet Pedagogika, Vol XXVI, No 8, 1962, pp 54-58. JPRS 23187

**Scientific
Miscellaneous (Contd)**

The Application of Cybernetics in Pedagogy, by
P. R. Atutov, 9 pp.
RUSSIAN, per, Sovet Pedagogika, Vol XXVI, No 8,
1962, pp 147-152. JPRS 23187

The New Program of the CPSU and Problems of Pedago-
gical Science, by I. A. Kayrov, 29 pp.
RUSSIAN, per, Sovet Pedagogika, Vol XXVI, No 9,
1962, pp 35-53. JPRS 23049

Selected Articles From the Russian Periodical
Vest Ak Nauk Kazakh SSR, Vol XIX, No 9, 1963. JPRS 22884

Measures for Improving Scientific Activities
of the Academy of Sciences Kazakh SSR, by
K. I. Satpayev, 21 pp, (pp 5-19).

In the Draft of the Statutes of the Academy of
Sciences of Kazakh SSR, by O. A. Baykonurov,
7 pp, (pp 36-40).

For Continued Development of Science in Kazakhstan,
6 pp, (pp 40-44).

Resolutions of the General Meeting of the Academy
of Sciences of Kazakh SSR, 5 pp, (pp 45-47).

The Mechanization and Automation of Information
Processing Operations, by V. A. Polushkin, 6 pp.
RUSSIAN, per, Vestnik Ak Nauk SSSR, No 11, 1963,
pp 82-85. JPRS 23188

Guests of Indonesian Scientists, by A. V. Anikin,
V. Ya. Arkhipov, 5 pp.
RUSSIAN, per, Vest Ak Nauk SSSR, No 12, 1963,
pp 66-69. JPRS 23211

First Results of Work With a Programmed Textbook,
by A. M. Doroshkevich, 7 pp.
RUSSIAN, per, Vest Vysshey Shkoly, Vol XXI, No 8,
1963, pp 51-54. JPRS 22987

The Fighting Task of Workers in Philosophy and
Social Sciences, by Chou Yang, 38 pp.
CHINESE, per, Hung-ch'i, No 24, 27 Dec 1963. JPRS 22903

Classification and Future of Modern Biological
Sciences, by Yin Hung-chang, 5 pp.
CHINESE, per, Sheng-wu-hsueh T'ung-pao, No 3,
25 May 1963, pp 1-6. JPRS 23166

**Scientific
Miscellaneous (Contd)**

Biographies of Honorary and Meritorious Members of
the Association of Croatian Civil Engineers and
Technicians, by M. Jancikovic, 9 pp.
CROATIAN, per, Gradjevinar, Vol XV, No 11, 1963,
pp 436-440.

JPRS 23257

Secret of the Forest, by Wolfgang Cordan.
GERMAN, bk, 225 pp.

Doubleday

Accidents and Breakdowns at Nuclear Installations,
by U. Schulze.
GERMAN, rpt, 1961.

*AERE-Harwell

Manual of Patent Classification, 643 pp.
GERMAN, bk, Gruppeneinteilung der Patentklassen,
No 7, 1958.

OTS 63-11190
PL-480

Application of Scientific and Technical Achieve-
ments in Production, by Stefan Nadasan, 7 pp.
RUMANIAN, per, Stiinta si Tehnica, No 12, 1963,
pp 3-5.

JPRS 23116

Research Activities of Academician Stefan Milcu,
6 pp.
RUMANIAN, per, Studii si Cercetari de Endocrinologie,
Vol XIV, No 4-6, Dec 1963, pp 433-436.

JPRS 23221

INFORMATION RECEIVED DURING FEBRUARY

ON COVER-TO-COVER TRANSLATIONS

| | |
|---|---|
| Akusticheskii Zhurnal, Vol IX, No 3, 1963. | Amer Inst of Phys Sov Phys - Acoustics Vol IX, No 3 |
| Avtomatika i Telemekhnika, Vol XXIV, No 8, 1963. | ISA |
| Doklady Adademii Nauk SSSR, Vol CXLVIII, CXLIX, No 1-6, 1963. (Chemical Technology Section) | CB |
| Doklady Akademii Nauk, SSSR, Vol CLII, No 1-6, 1963. (Soviet Mathematics Section) | Amer Math Soc |
| Geokhimiya, No 4, 1963. | Scripta Technica |
| Inzhonerno-Fizicheskii Zhurnal, Vol VI, No 9, 1963. | JPRS 23006 |
| Inzhenerno-Fizicheskii Zhurnal, Vol VI, No 11, 1963. | JPRS 23013 |
| Inzhenernyy Zhurnal, Vol III, No 4, 1963. | JPRS 23243 |
| Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, Vol XXVII, No 2, 1963. | CTT |
| Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, No 10, 1963. | AGU |
| Izvestiya Vysshikh Uchebnykh Zavedeniy MVISSO SSSR po Razdelu Priborostroyeniye, Vol VI, No 5, 1963. | JPRS 23033 |
| Izvestiya Vysshikh Uchebnykh Zavedeniy MVISSO SSSR po Razdelu Radiotekhnika, Vol VI, No 4, 1963. | JPRS 23245 |
| Izvestiya Vysshikh Uchebnykh Zavedeniy, Radiotekhnika, Vol VI, No 6, 1963. | *JPRS |
| Kristallografiya, Vol VIII, No 4, 1963. | Amer Inst of Phys Sov Phys - Crystal Vol VIII, No 4 |
| Pochvovedeniye, No 9, 1962. | Scripta Technica |
| Tsvetnye Metally, Vol III, No 9, 1962. | PS |
| Vestnik Svyazi, No 1, 1964. | *JPRS |
| Zhurnal Analiticheskoi Khimii, Vol XVIII, No 2-4, 1963. | CB |

Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki,
Vol XLV, No 2, 1963.

Amer Inst of Phys
Sov Phys - JETP
Vol XVIII, No 1

Zhurnal Tekhnicheskoi Fiziki, Vol XXXIII, No 8,
1963.

Amer Inst of Phys
Sov Phys - Tech Phys
Vol VIII, No 7

* In Process

** Table of contents not available.

Table of contents follows for the above cover-to-cover translations.

Soviet Physics ACOUSTICS

A Translation of "Akusticheskii Zhurnal"
(Russian Original Vol. 9, No. 3, pp. 265-401, July-September, 1963)

Vol. 9, No. 3, pp. 219-330

January-March, 1964

CONTENTS

| | PAGE | RUSS. PAGE |
|---|------|---------------|
| Underwater Noise of Dynamical Origin. <u>A. V. Furduev</u> (R) | 219 | 265 |
| Conversion of Ultrasonic Surface Oscillations into Rotational and Translational Motion of an Adjacent Body. <u>M. E. Arkhangel'skii</u> (E/T) | 226 | 275 |
| Vibrational Relaxation in Gases. <u>A. Baidedayev</u> and <u>A. A. Senkevich</u> (T) | 229 | 279 |
| Spatial Correlation of Traveling Wave Fluctuations in an Unbounded Turbulent Medium. <u>I. G. Bass</u> and <u>A. V. Men'</u> (T) | 232 | 283 |
| Ultrasonic Sirens with an Electric Motor Drive. <u>V. A. Vekker</u> and <u>B. I. Stepanov</u> (R) | 238 | 291 |
| Effects of a Second Approximation in the Propagation of Waves Through Solids. <u>I. A. Viktorov</u> (T) | 242 | 296 |
| Theory of Ultrasonic Absorption in Concentrated Polymeric Solutions. <u>Yu. Ya. Gotlib</u> and <u>K. M. Salikhov</u> (T/E) | 246 | 301 |
| Method of Obtaining an Acoustic Contact Between Ultrasonic Transducers and Rocks. <u>M. N. Gannanyuk</u> (E) | 252 | 309 |
| The Radiation into an Elastic Medium from a Piston Vibrating in an Infinite Elastic Screen. <u>L. Ya. Gutin</u> (T) | 256 | 314 |
| Some Features in the Behavior of Converging Wave Fronts in a Dissipative Medium. <u>I. N. Kanevskii</u> (T) | 263 | 324 |
| Reflection of Sound by a Cylindrical Shell in a Moving Medium. <u>L. M. Lyamshev</u> . . . (T) | 267 | 329 |
| An Experimental Study of the Gain in Acoustic Focussing Lenses. <u>B. D. Tartakovskii</u> (E) | 272 | 336 |
| Collapse of Vapor-Air Cavitation Bubbles. <u>G. A. Khorozhev</u> (T) | 275 | 340 |
| Sound Fluctuations in the Upper Layer of the Ocean and their Relation to the Random Inhomogeneities of the Medium. <u>R. F. Shvachko</u> (E/T) | 280 | 347 |
| Transmission of a Surface Wave Over a Nonuniform Part of a Plane Impedance Surface. <u>V. V. Shevchenko</u> (T) | 283 | 351 |
| Transmission of Sound Through a Thin Plate with Interjacent Supports. <u>E. L. Shenderov</u> (T) | 289 | 359 |
| Acoustic Air-Jet Generators for Aerosol Coagulation. <u>R. Sh. Shkol'nikova</u> (E/T) | 295 | 368 |
| BRIEF COMMUNICATIONS | | |
| Effects of Ultrasound on Exposed and Unexposed Film. <u>M. E. Arkhangel'skii</u> (E) | 301 | 376 |
| A Possible Method of Polarizing Ultrasonic Vibrations. <u>I. B. Bersuker</u> (E) | 303 | 378 |

(continued)

Available From Amer Inst of Phys
Sov Phys - Acoustics
Vol IX, No 3

CONTENTS (continued)

| | PAGE | RUSS. PAGE |
|--|------|---------------|
| Velocity of Ultrasound in the Ternary System Benzene-Methanol-Toluene in the Critical Region. V. I. Grechkin and V. P. Nozdrev. (E) | 304 | 379 |
| Measurement of the Nonlinear Acoustic Parameter of Liquid Nitrogen. Kung Hsiu-fen, L. K. Zarembo, and V. A. Krasil'nikov (E) | 306 | 382 |
| Hysteresis Effects in the Acoustic Streaming of Small Obstacles. I. P. Mednikov (E) | 308 | 383 |
| A "Tactile" Sensing Element Utilizing Ultrasonic Surface Waves. L. L. Myasnikov, E. N. Myasnikova, and G. A. Setchbyakov (E) | 310 | 385 |
| Excitation of Directional Flexure Waves in Plates. A. S. Nikiforov (T) | 311 | 386 |
| Calculating the Resonance Frequencies of a Sectional Concentrator. I. I. Teumin . . . (T) | 312 | 387 |
| Radiation of Sound from a System of Sources Through an Elastic Cylindrical Shell. E. L. Shenderov (T/E) | 313 | 388 |
| Influence of Coupling Layers on the Accuracy of Velocity of Sound Measurements in Solids. V. A. Shchukin and L. A. Yakovlev (E/T) | 315 | 390 |
| CHRONICLES | | |
| P. N. Kubanski | 318 | 393 |
| M. D. Khaskind | 319 | 394 |
| Meeting of the Scientific Council on Ultrasonics. M. G. Sirotyuk | 320 | 395 |
| Professor D. Sette in the Soviet Union. L. D. Rozenberg | 321 | 396 |
| BIBLIOGRAPHY | | |
| A New Ultrasonic Journal. I. Golyamina (R) | 322 | 397 |
| Ultrahangok (Ultrasonics), by Dr. Tamas Tarnóczy. Reviewed by V. S. Grigor'ev . . . (R) | 323 | 397 |
| Ultrasonic Technology, by R. Goldman. Reviewed by L. D. Rozenberg (R) | 324 | 399 |
| Basile Acustici Moderne (Foundations of Modern Acoustics), by E. Bădărașu and M. Grunăzescu. Reviewed by V. S. Grigor'ev (R) | 325 | 400 |

Available in English and Russian
 Sov. Phys. - Acoustics
 Vol. IX, No. 3

Automation and Remote Control

A translation of Avtomatika i Telemekhanika, a publication of the Academy of Sciences of the USSR

Vol. 24, No. 8

Russian Original Dated August, 1963

January, 1964

CONTENTS

| | PAGE | RUSS. PAGE |
|---|------|------------|
| Optimal Control under Conditions of Lagging Feedback. <u>N. N. Krasovskii</u> | 941 | 1021 |
| The Theory of Analytical Design of Controllers. <u>V. I. Zubov</u> | 946 | 1037 |
| The Problem of Synthesizing Control systems and Approximations of Solutions for One Class of Discrete Variational Problems. II. <u>A. V. Gorban'</u> | 951 | 1042 |
| Optimizing the Final State of a Control System. <u>I. S. Kirillova</u> | 958 | 1050 |
| The Necessary and Sufficient Conditions for Optimality of Discrete Control Systems. <u>A. G. Butkovskii</u> | 963 | 1056 |
| Synthesis of an Optimum Servosystem. <u>V. I. Smal'gauzen</u> | 971 | 1065 |
| An Analysis of the Quality of an Automatic-Control system by the Method of Lowering the Order of the Differential Equation. <u>A. A. Kardashov</u> | 978 | 1071 |
| Approximating the Input Functions for (m X n) Linear Dynamic Systems with Constant Parameters. <u>M. A. Dukhovyi</u> and <u>E. G. Lamshtem</u> | 989 | 1084 |
| Analysis of the Reliability of Character Recognition Based on Statistical Analysis. <u>M. O. Glinkikh</u> , <u>A. D. Kristev</u> , and <u>G. V. Poddubnyi</u> | 995 | 1090 |
| Device with Many Stable Equilibrium States and Arbitrary Transition Program. <u>V. I. Gol'dgel'ter</u> and <u>S. N. Sotskov</u> | 1003 | 1100 |
| A Method for Generating Functions of Several Variables and Schemes for Its Instrumentation. <u>M. N. Kras'pshchikov</u> and <u>A. I. Kulakovskii</u> | 1007 | 1106 |
| Continuous Operation Amplifiers with Zero Drift Compensation by the Method of Prinz. <u>A. M. Yakubovich</u> | 1016 | 1117 |
| Tabular-Graphical Method for Use in Deriving Relay Switching Circuit Design Formulas. <u>G. M. Narshuler</u> | 1027 | 1130 |
| Dynamic Study of Pneumatic Compensating Transmitters with Moving Elements that Have a Large Mass. <u>M. L. Podgoetskii</u> | 1032 | 1136 |
| On the Problem of Indirect Control When Dry Friction in the Sensing Element is Taken into Account. <u>V. V. Kazakevich</u> and <u>G. M. Ostrovskii</u> | 1036 | 1141 |
| Statistical Analysis of Transistor Reliability Tests. <u>V. I. Zmudikov</u> and <u>I. V. Petrusenko</u> | 1040 | 1145 |
| SURVEY | | |
| Signal Transmission over Power Distribution Circuits. <u>V. A. Il'in</u> and <u>E. A. El'darov</u> | 1042 | 1147 |
| INFORMATION | | |
| From the Institute of Automation and Remote Control: Jet Devices for Regulation and Control and the Technology of Pneumatic Printed Circuits | 1050 | 1155 |

Available From ISA

DOKLADY CHEMICAL TECHNOLOGY

PROCEEDINGS OF THE
ACADEMY OF SCIENCES
OF THE USSR

A translation of **DOKLADY AKADEMII NAUK SSSR**
A publication of the Academy of Sciences of the USSR

© 1963 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Vols. 148 and 149, Nos. 1-6

January-April, 1963

CONTENTS

| | PAGE | RUSS. ISSUE | RUSS. PAGE |
|---|------|-------------|------------|
| VOLUME 148, NUMBERS 1-6 | | | |
| The Formation of Sylvite in the Blast Furnace—L. I. Karyakin | 1 | 2 | 391 |
| Separation in Preparative Columns—K. I. Sakodyskiĭ, S. A. Volkov, N. A. Malafeev, V. V. Brazhnikov, and N. M. Zhaveronkov | 4 | 2 | 394 |
| The Effect of Nonionogenic Surfactants on the Stability of a Polystyrene Latex Stabilized by Sodium Oleate—E. M. Aleksandrova, I. A. Shits, and I. P. Romm | 7 | 3 | 637 |
| Conversion of Methane to Acetylene in An Argon Plasma Jet—G. V. Gulyaev, G. I. Kozlov, L. S. Polak, L. N. Khitrin, and G. N. Khudyakov | 10 | 3 | 641 |
| The Long-Term Strength of a Titanium Alloy Based on the Compound Ti ₃ Al at 800° —I. I. Kornilov and T. T. Nartova | 13 | 3 | 644 |
| Hydroxyethylation of Synthetic Alcohols to Improve the Properties of Monolayers Which Depress the Evaporation of Water—V. A. Ozarev and A. A. Trapeznikov | 15 | 3 | 647 |
| The Mechanism of the Effect of Oleic Acid Oxidized by Molecular Oxygen during the Selective Flotation of Titanium-Zirconium Sands—I. N. Plaksin and S. N. Dorokhina | 19 | 3 | 651 |
| An Investigation of the Oxidation Conditions of Ferrous Sulfate and the Hydrolysis of the Oxidation Products in Autoclave Processes—I. F. Khudyakov, A. V. Klyueva, and V. I. Smirnov | 21 | 3 | 654 |
| Hardening of Unburnt Gypsum Cement—R. I. Azav | 25 | 4 | 893 |
| Creep in Cyclically Frozen Concrete—A. M. Podval'nyi | 27 | 5 | 1148 |
| VOLUME 149, NUMBERS 1-6 | | | |
| The Change in Volume (Contraction) of Cement Block—G. D. Dzhrov, M. S. Ostrikov, and T. P. Petrenko | 32 | 3 | 648 |
| A Study of Some Changes in the Phase Composition of the Reaction Mass during the Oxidative Roasting of Chromite Charges—V. A. Ryabin, Ya. E. Vil'nyanskiĭ, and V. P. Pavlova | 36 | 3 | 652 |
| The Reaction of Urea with the Products of the Nitric-Acid Decomposition of Phosphates—Ya. S. Shenkin, V. A. Klevke, and B. G. Lyudkovskaya | 40 | 3 | 656 |

(continued)

Available From CB

CONTENTS (continued)

| | PAGE | RUSS. ISSUE | RUSS. PAGE |
|---|------|----------------|---------------|
| The Mechanism of Surface Smoothing in the Electrodeposition of Metals -S. S. Kruglikov, G. F. Vorob'eva, N. T. Kudryavtsev, M. M. Yarlykov, and A. Ya. Antonov | 44 | 4 | 911 |
| Cocrystallization of Potassium Dichromate and Copper Nitrate with Potassium Nitrate -E. V. Khamskii and Z. A. Kozina | 47 | 4 | 915 |
| Kinetics of Cement Hydration -T. M. Berkovich | 50 | 5 | 1127 |
| The Wetting of Corundum and Quartz Glass by Iron-Manganese Melts -S. E. Volkov, V. A. Mchedlishvili, and A. M. Samarin | 54 | 5 | 1131 |
| Ore Frits -B. P. Ozhigov and L. I. Koren' | 57 | 5 | 1134 |

available from G.P.

SOVIET MATHEMATICS

Vol. 4, No. 5

September-October 1963

TABLE OF CONTENTS

| | Russian page nos. | Page |
|---|-------------------|------|
| Aksent'ev, I. A. <i>Indices of functions on Riemann surfaces</i> | (9-12) | 1205 |
| Azil'diev, A. I. <i>First and second boundary value problems for elliptic equations which degenerate at a finite number of interior points</i> | (13-16) | 1209 |
| Vagner, V. V. <i>On Ehresmann's theory of jets</i> | (17-19) | 1213 |
| Veksler, A. I. <i>Certain classes of vector chains and their applications to the theory of semi-ordered spaces</i> | (20-23) | 1216 |
| Vorob'ev, N. N. <i>The extremal matrix algebra</i> | (24-27) | 1220 |
| Dnestrovskii, Ju. N. and Kostomarov, D. P. <i>Eigenvalue problems for second-order equations with non-linear dependence on the parameter λ</i> | (28-30) | 1224 |
| Efimov, A. V. <i>On the nonsummability of orthogonal series by linear methods</i> | (31-34) | 1227 |
| Kipriyanov, I. A. <i>A variational method of solving a class of degenerate elliptic equations</i> | (35-38) | 1231 |
| Kreĭn, M. G. and Langer, G. K. <i>The spectral function of a selfadjoint operator in a space with indefinite metric</i> | (39-42) | 1236 |
| Kručkovič, G. I. <i>Geodesic correspondence of semireducible Riemannian spaces</i> | (43-45) | 1240 |
| Manin, Ju. I. <i>On the arithmetic of rational surfaces</i> | (46-49) | 1243 |
| Mel'cer, M. M. <i>On weakly complete continuity of a linear mapping and its conjugate</i> | (50-51) | 1245 |
| Mil'man, D. P. and Mil'man, V. D. <i>Some geometric properties of nonreflexive spaces</i> | (52-54) | 1250 |
| Orevkov, V. P. <i>A constructive mapping of a square onto itself displacing every constructive point</i> | (55-58) | 1253 |
| Romm, B. D. <i>Decomposition into irreducible representations of the restriction of the representations of the principal series of the proper Lorentz group to the real Lorentz group</i> | (59-62) | 1257 |
| Tronogin, V. A. <i>Asymptotic behavior and existence of a solution of the Cauchy problem for a first order differential equation with a small parameter in a Banach space</i> | (63-66) | 1261 |
| Frenkel', V. I. <i>Algorithmic problems in partially ordered groups</i> | (67-70) | 1266 |
| Ščerbakov, B. A. <i>Decomposition of a set of Poisson-stable motions into invariant classes</i> | (71-74) | 1270 |
| Bavrin, I. I. <i>Criteria for determining whether a given regular function belongs to two classes of functions of two complex variables</i> | (255-258) | 1275 |

(continued)

Available from Amer. Math. Soc.

CONTENTS (Contd)

| | Russian page nos. | Page |
|--|-------------------|------|
| Volk, V. Ja. Spectral resolution for a class of non-selfadjoint operators | (259-261) | 1279 |
| Il'in, V. P. Some inequalities among norms of partial derivatives of functions of several variables | (262-265) | 1282 |
| Leont'ev, A. F. Completeness of the system $\{e^{\lambda n^2}\}$ in a closed strip | (266-268) | 1286 |
| Lomonosov, M. V. On fundamental solutions of elliptic equations | (269-271) | 1289 |
| Maslov, S. Ju. Strong representability of sets by calculi | (272-274) | 1292 |
| Nečuev, V. I. The group of nonsingular matrices over a finite field, and recursive sequences | (275-277) | 1296 |
| Orevkov, V. P. Constructive mappings of polyhedra | (278-281) | 1299 |
| Ramm, A. G. Spectral properties of Schrödinger's operator in regions with an infinite boundary | (282-285) | 1303 |
| Rešetnjak, Ju. G. Stability in the theorem of Liouville on conformal mappings of space | (286-287) | 1307 |
| Rubinštejn, G. Š. Dual extremum problems | (288-291) | 1309 |
| Sil'senko, A. O. Certain properties of arithmetic operations on duplexes | (292-295) | 1313 |
| Suvorov, G. D. Univalent mappings of plane regions and sets of prime ends of generalized measure zero | (296-298) | 1316 |
| Berezanskiĭ, Ju. M. On the smoothness of the spectral function of a selfadjoint elliptic differential operator up to the boundary of the domain | (511-514) | 1319 |
| Vetovskii, B. S. An algorithm for the optimization of production and distribution of nonuniform commodities | (515-518) | 1324 |
| Gorčakov, V. N. The asymptotic behavior of a spectral function of a hypoelliptic operator of a certain class | (519-522) | 1328 |
| Delone, B. N. and Ryškov, S. S. Solution of the problem of the least dense lattice covering of a four-dimensional space by equal spheres | (523-524) | 1333 |
| Din' N'á T'oung. Preclosed mappings and Taĭmunov's theorem | (525-528) | 1335 |
| Dubinskii, Ju. A. Some imbedding problems in Orlicz spaces | (529-532) | 1339 |
| Ibragimov, I. I. and Iskhafatov, A. S. Estimate of a differential operator in the class of entire functions of finite degree | (533-536) | 1343 |
| Kozlovcev, S. G. The structure of measurable functions without asymptotic derivative | (537-539) | 1348 |
| Krasnosel'skii, M. A. and Strygin, V. V. Computation of the rotation of completely continuous vector fields connected with the problem of periodic solutions of differential equations | (540-543) | 1351 |
| Lavrík, A. F. The theory of quasiprime numbers | (544-547) | 1355 |
| Linnik, Ju. V. On the theory of tests for two normal samples | (548-549) | 1360 |
| Malahovskii, V. S. Invariant construction of the differential geometry of a manifold of plane algebraic elements | (550-552) | 1362 |
| Mimc, G. E. and Orevkov, V. P. An extension of the theorems of Glivenko and Kreisel to a certain class of formulas of predicate calculus | (553-554) | 1365 |

(cont. Innd)

Available From Amer Math Soc

CONTENTS (Contd)

| | Russian page nos. | Page |
|---|-------------------|------|
| Mihlin, S. G. <i>On the index of a system of singular equations</i> | (555-580) | 1368 |
| Fomenko, O. M. <i>Estimates of the Peterason inner product with application to the theory of quaternary quadratic forms</i> | (559-562) | 1372 |
| Štraus, A. V. <i>Spectral decompositions of symmetric operators</i> | (563-566) | 1376 |
| Jarmuhamedov, Š. <i>On the growth of functions harmonic inside a cylinder and growing on the boundary with the normal derivative</i> | (567-569) | 1380 |
| Aržon, I. S. and Iglickiĭ, M. A. <i>On the decrease of harmonic functions in a cylinder</i> | (775-778) | 1383 |
| Borisovič, Ju. G. <i>The Poincaré-Andronov method in the problem of periodic solutions of differential equations with a lag</i> | (779-782) | 1388 |
| Vasil'ev, F. P. <i>The method of finite differences for solving Stefan's single-phase problem for a quasilinear equation</i> | (783-786) | 1392 |
| Gorčakov, Ju. M. <i>On infinite Frobenius groups</i> | (787-789) | 1397 |
| Džavadov, M. G. <i>A mixed problem for a hyperbolic equation involving a small parameter with the leading derivatives</i> | (790-793) | 1400 |
| Efimov, B. <i>Metrizability and the Σ-product of bicomact spaces</i> | (794-797) | 1405 |
| Iliadis, S. <i>Certain properties of absolutes</i> | (798-800) | 1409 |
| Krasnozsel'skiĭ, M. A. <i>An alternative principle for establishing the existence of periodic solutions of differential equations with a lagging argument</i> .. | (801-804) | 1412 |
| Vuz'minov, V. I. <i>Test spaces</i> | (805-807) | 1416 |
| Lizorkin, P. I. <i>(L_p, L_q)-multipliers of Fourier integrals</i> | (808-811) | 1420 |
| Lihman, A. I. <i>Normal subgroups of the multiplicative group of a skew field</i> .. | (812-815) | 1425 |
| Ljance, V. È. <i>On the solution of certain boundary value problems by the Fourier method</i> | (816-819) | 1430 |
| Maslova, F. G. <i>A problem in the spectral theory of differential operators</i> | (820) | 1435 |
| Melamed, V. B. <i>Bifurcation points of a certain class of equations</i> | (821-822) | 1437 |
| Ofman, Ju. <i>Approximate realization of continuous functions by automata</i> | (823-826) | 1439 |
| Ramazanov, M. D. <i>A boundary value problem</i> | (827-830) | 1444 |
| Romanovskiĭ, A. V. <i>Finite groups with Π-decomposable semigroups</i> | (831-833) | 1448 |
| Slugin, S. N. <i>The method of steepest descent in a Hilbert module over a finite-dimensional complex K-space</i> | (834-837) | 1452 |
| Fulaev, V. V. <i>Conformal transformations of domains with corners and differential properties in them of solutions of Poisson's equation</i> | (838-840) | 1457 |
| Čl'ang, H. (Zieschang, H.) <i>Classification of simple systems of paths on a solid pretzel of genus 2</i> | (841-844) | 1460 |
| Bahin, G. S. and Fomenko, V. T. <i>A piecewise regular surface with positive curvature uniquely determined by a boundary condition</i> | (1023-1026) | 1464 |
| Blagoveščenskiĭ, Ju. N. <i>Differential properties of the trajectories of certain parameter-dependent diffusion processes and the Cauchy problem for degenerate parabolic equations</i> | (1027-1030) | 1468 |

(continued)

Available From Anne North Coe

CONTENTS (Contd)

| | Russian page nos. | Page |
|---|-------------------|------|
| Brudovskii, B. S. <i>Countability conditions in locally convex spaces</i> | (1031-1033) | 1472 |
| Vasil'ev, F. P. and Uspenskii, A. B. <i>A finite-difference method for the solution of a two-phase Stefan problem with a quasilinear equation</i> | (1034-1037) | 1475 |
| Videnskii, V. S. <i>On zeros of orthogonal polynomials</i> | (1038-1041) | 1479 |
| Gel'man, A. E. <i>Simple solutions of operator equations in the case of branching</i> | (1042-1044) | 1483 |
| Gel'fand, I. M., Pjateckii-Šapiro, I. I. and Fedotov, Ju. G. <i>Determination of crystal structure by the method of nonlocal search</i> | (1045-1048) | 1487 |
| Gold'berg, A. A. <i>Growth of an entire function along a half-line</i> | (1049-1050) | 1491 |
| Efremovič, V. A. and Tihomirova, E. S. <i>Continuation of an equimorphism to infinity</i> | (1051-1053) | 1494 |
| Ibragimov, I. I. <i>Estimate of the norm of a linear operator in the class of entire functions of finite degree</i> | (1054-1057) | 1497 |
| Mamedov, R. G. <i>Inequalities for polynomials and rational functions</i> | (1058-1060) | 1501 |
| Manin, Ju. I. <i>A proof of the analog of the Mordell conjecture for algebraic curves over function fields</i> | (1061-1063) | 1505 |
| Naĭmark, M. A. <i>Unitary representations of the Lorentz group in a space H_k</i> .. | (1064-1067) | 1508 |
| Tret'jakov, V. D. <i>On line geometry in three-dimensional Klein spaces</i> | (1068-1070) | 1512 |
| Flaksmaeier, Ju. (Flachsmeyer, J.) <i>Diri convergence in a function space</i> | (1071-1074) | 1516 |
| Čemikov, S. N. <i>Contraction of finite systems of linear inequalities</i> | (1075-1078) | 1520 |
| Abdulacv, R. N. <i>On the solvability condition of the Riemann homogeneous problem on closed Riemann surfaces</i> | (1279-1281) | 1525 |
| Balk, M. B. <i>Picard's theorem for bianalytic entire functions</i> | (1282-1285) | 1529 |
| Berman, S. D. <i>Integral representations of finite groups</i> | (1286-1287) | 1533 |
| Van Tun <i>The smoothing property of direct values of generalized potentials corresponding to the comparison (Lewy) function and principal fundamental solution of the general second-order elliptic equation</i> | (1288-1291) | 1536 |
| Vol'pert, A. I. <i>On the index of systems of multidimensional singular integral equations</i> | (1292-1293) | 1540 |
| Derguzov, V. I. <i>On the stability of solutions of Hamiltonian equations in Hilbert space with unbounded periodic operator coefficients</i> | (1294-1296) | 1543 |
| Maz'ja, V. G. <i>Regularity at the boundary of solutions of elliptic equations, and conformal mapping</i> | (1297-1300) | 1547 |
| Ostrovskii, I. V. <i>Infinitely divisible laws with unbounded Poisson spectrum</i> .. | (1301-1304) | 1551 |
| Ponomarenko, Ju. A. <i>Criteria for absolute Cesàro summability of multiple Fourier series</i> | (1305-1307) | 1556 |
| Rogoŭin, V. S. <i>The Riemann boundary value problem in a space of generalized functions, and Faber polynomials</i> | (1308-1311) | 1559 |
| Rofe-Beketov, F. S. <i>The spectrum of non-selfadjoint differential operators with periodic coefficients</i> | (1312-1315) | 1563 |

(continued)

Available from Amer Math Soc

DOKLADY AKADEMII NAUK SSSR, Soviet Mathematics Section,
Vol CLII, No 1-6, 1963.

CONTENTS (Contd)

| | Russian page nos. | Page |
|---|-------------------|--------|
| Tjurina, G. N. <i>Deformation of complex structures on algebraic manifolds</i> | (1316-1319) | 1567 |
| Fomenko, V. T. <i>Uniquely determined ovaloids with cuts</i> | (1320-1323) | 1571 |
| Hromov, A. P. <i>Expansion in eigenfunctions of ordinary differential operators with nonregular decomposing boundary conditions</i> | (1324-1326) | 1575 |
| Eskin, L. D. <i>The ζ-function on the group of unitary matrices</i> | (1327-1328) | 1579 |
| Partial table of contents for the next issue (Vol. 4, No. 6, November-December, 1963), Russian original Tom 133, Nos. 1-4 | | 1580-a |

Available From Amer Math Soc



GEOCHEMISTRY

A Translation of

GEOKHLMIYA

No. 4

1963

CONTENTS

| | |
|---|-----|
| Gerling, E. K. and Yu. A. Shukolyukov. Calculation of the time of differentiation of primary magma using K-Ar data | 365 |
| Agoshkov, V. M. A physicochemical investigation of zone melting of binary systems with a eutectic | 369 |
| Botova, M. M., D. P. Malyuga and U. I. Moltsyenko. Experimental use of the biogeochemical method in prospecting for uranium under desert conditions | 379 |
| Manskaya, S. M. and L. A. Kodina. Aromatic monomers of lignin in lignites and their possible role in the concentration of uranium, germanium, and vanadium | 389 |
| Govorov, I. N. and A. A. Stunzhas. Mode of transport of beryllium in alkali metasomatism | 402 |
| Feklichev, V. G. Chemical composition of minerals of the beryl group, character of isomorphism, and position of principal isomorphous elements in the crystal structure | 410 |
| Skrjabin, N. S. Oxidation-reduction conditions of the medium as a cause of primary zonation in some copper deposits | 422 |
| Myagkov, V. F. On a geochemical principle in the investigation of mineral paragenesis in magmatic ore deposits | 430 |
| Smirnov, S. I. Statistical distribution of the concentrations of elements in natural waters | 437 |
| Tsarovskii, I. D. Use of isovariation diagrams in distinguished magmatic from metasomatic rocks | 446 |

BRIEF COMMUNICATIONS

| | |
|--|-----|
| Oshkade, G. L. Distribution of lithium, rubidium and cesium in the minerals of pegmatites and metasomatized granites of the Vaza Khokh Massif (Northern Onega) | 454 |
| Gabuda, S. P., A. G. Lunin and G. M. Mikhailov. A study of stilbite by nuclear magnetic resonance | 459 |

Available From Scripta Technica

INZHENERNO-FIZICHESKIY ZHURNAL

(Journal of Engineering Physics)

Vol VI, No 9, September 1963

- USSR -

[Following is the translation of an entire issue of the Russian-language publication Inzhenerno-Fizicheskiy Zhurnal (Engineering Physics Journal), Vol VI, No 9, September 1963, published by the Academy of Sciences Belorussian SSR, Minsk, pages 1-137. Authors' names accompany each article.]

| TABLE OF CONTENTS | Page |
|---|-------------|
| Nonstationary Radiative Interaction of Grey Bodies..... | 1 |
| Drying of A Moist Charge by Hot and Cold Air..... | 10 |
| Design of Thermoanemometric Thermistor Circuits..... | 19 |
| On the Effect of Contact Temperature Meters on the Accuracy of Determination of Thermal Properties..... | 30 |
| A Nonstationary Method of Determining the Thermophysical Characteristics of Varnish-Paint Coatings... | 40 |
| Emissivity of Metals and Its Dependence on Heat Conduction..... | 46 |
| On the Calculation of the ξ -Component of Heat Generation..... | 54 |
| The Creation of a Flat Field of Energy Release in a Reactor With Uniform Charge..... | 61 |
| Microwave Methods of Determination of Plasmoids..... | 67 |
| A Method of Eigenfunctions in the Regular Heat-Regime Theory..... | 73 |
| The Approximate Solution of Two-Layer Problems of Nonstationary Heat Conduction..... | 82 |

(continued)

Available From JPRS 23006

CONTENTS (Contd)

| | |
|---|-----|
| A Study of Nonstationary Thermal Diffusion in Molecular Solutions..... | 91 |
| Methods for Computing Diffusion Coefficients in Two-Phase Systems..... | 101 |
| On the Kinematics of Motions in Rarefied Media..... | 109 |
| On the Calculation of the Boiling Points of Inert Gases and Molecular Crystals..... | 122 |
| The Effect of Forms of Moisture Bonds on Asbestos Cement Deformation..... | 126 |
| Precision Amplifiers for Thermal Regulation in the Low-Temperature Zone..... | 133 |
| The Effect of Botanic Composition and the Degree of Peat Decomposition Upon the Results of Its High- Speed Thermal Decomposition..... | 141 |
| <u>Book Review</u> | |
| On P.D. Lebedev's Monograph <u>The Calculation and Design of Drying Installations</u> , Moscow-Leningrad, 1963..... | 151 |
| <u>Chronicle</u> | |
| Conference of Readers of <u>Inzhenerno-Fizicheskiy Zhurnal</u> in Kalinin..... | 155 |
| Moscow City Seminar on Heat and Mass Transfer..... | 158 |
| <u>Reader's Guide</u> | |
| <u>International Journal of Heat and Mass Transfer</u> , Vol VI, June 1963..... | 161 |
| Heat and Mass Transfer Bibliography..... | 164 |

Available From JPRS 23006

INZHENERNO-FIZICHESKIY ZHURNAL

(Journal of Engineering Physics)

Vol VI, No 11, November 1963

USSR

Following is a translation of 21 articles in the Russian-language periodical Inzhenerno-fizicheskiy zhurnal (Journal of Engineering Physics), Vol VI, No 11, published by the Academy of Sciences BSSR, November 1963, Minsk, pages 3-137.

TABLE OF CONTENTS

| | <u>Page</u> |
|--|--------------------|
| Experimental Determination of Local Values of Heat-Transfer Coefficients in Turbines..... | 1 |
| Resistance and Heat Exchange in a Porous Surface During a Gradient Gas Flow..... | 11 |
| On the Influence of Rarefaction of Supersonic Flow on the Base Pressure of a Rotating Body..... | 23 |
| Mechanism of Heat Exchange Between a Fluidized Bed and Surface..... | 35 |
| Investigation of the Thermal Diffusivity (Intermixture of Particles) of a Pseudo- Fluidized Bed, Baffled by Screens..... | 49 |
| Thermodynamic Optimization of Technological Heat Exchange Systems with Cascade Fluidized Beds..... | 61 |
| Calculation of a Multizone Bed Thermal Exchanger with a Moving Bed..... | 77 (continued) |

Available From JPRS 23013

| <u>Table of Contents (Cont'd)</u> | <u>Page</u> |
|---|-------------|
| Temperature Characteristics of Arc Jets..... | 90 |
| The Determination of the Transfer Potential of Osmotic Moisture..... | 94 |
| Specific Heat of Evaporation of Moisture from the Capillaries of a Disperse Body..... | 100 |
| A Proof of Some Relationships Which Connect the Heat Conductivity with Other Characteristics of a Liquid..... | 115 |
| The Free Flow of Thin Films of a Viscous Liquid On a Vertical Surface..... | 122 |
| Distortions of a Temperature Field in a Solid Having Some Insulated Rectangular Regions..... | 130 |
| The Calculation of the Dose-Stream Distribution of Capture Gamma-Rays..... | 141 |
| The Kinetics of a Reactor Going Out of the Subcritical State..... | 148 |
| The Heat Exchange of a Surface Which is Immersed in a Developed Heterogeneous Fluidized Layer... | 157 |
| Calculation of Current-Voltage Characteristics of Certain Types of Thermistors Under Conditions of Natural Convection..... | 173 |
| Investigation of the Motion of Solid Particles in Interblade Channels of a Turbocyclone Ash Remover..... | 185 |
| A Study of Contact Heat Exchange on the Surface of a Three-Layered Slab of Flooring..... | 197 |
| A Review Mass-Transfer Processes and Critical Point Phenomena..... | 202 |
| To Aid the Reader Contents of the International Journal <u>Teplo- I</u> <u>Massopereva</u> (Heat and Mass Transfer), Vol. VI, No. 8, August, 1963..... | 219 |

Available From JPRS 23013

INZHENERNIY ZHURNAL

(Engineering Journal)

No 4, 1963

-USSR-

Following is the translation of the Russian-language publication Inzhenernyy Zhurnal (Engineering Journal) A. A. Nikol'skiy chief editor, Moscow, published by the Academy of Sciences USSR, Vol III, No 4, 1963, pages 619-768.7

TABLE OF CONTENTS

Page

| | |
|---|-----|
| On the Stability of Gyroscope Motion in a Cardan Suspension with Spring Limiters and a Damper | 1 |
| Similarity Laws for the Gas Exhaust in a Slender Hypersonic Nozzle | 16 |
| Flow of a Conducting Gas in a Longitudinal Magnetic Field Around a Slightly Wavy Wall | 23 |
| On the Problem of Nonstationary Wave Diffraction Relative to a Slot | 34 |
| Investigation of the Structure of Strong Shockwaves in Hydrogen and Helium | 46 |
| Stability Equations of Cylindrical Shells | 68 |
| Elastic Equilibrium of Thick Ribbed Slabs | 79 |
| Natural Vibrations of a Cantilever Beam with Noncoincident Stiffness Axes and Centers of Mass | 95 |
| Torsion of a Prismatic Rod with Transverse Section in the Shape of an Arbitrary Trapezoid | 106 |

Available From JPRS 23043

(continued)

TABLE OF CONTENTS Cont.

| | <u>Page</u> |
|--|-------------|
| On the Stability of Nonstationary Gyroscope Motion in a Finite Time Interval | 120 |
| Accurate Gyrocompass on a Fixed Base | 128 |
| Isentropic Dispersion of a Plane Gas Layer Into a Vacuum Under Various Initial Conditions | 140 |
| On the Interaction of a Reflected Shockwave with the Boundary Layer | 153 |
| On the Hydrodynamics of a Viscous Free Jet Taking Surface Tension into Account | 162 |
| On One Problem of Soil Mechanics | 170 |
| Certain Problems on the Bending of Flexible Plates | 181 |
| Effect of Shear and Rotational Inertia on the Frequency of Flexural Vibrations of Elastic Rods | 193 |
| Solution of Certain Problems on Stress Concentration in the Theory of Elasticity | 204 |
| Plane Problem of Thermoelasticity of the Impression of a Stamp | 212 |
| Investigation of the Yield Boundary of Plastically Deformed Nickel Samples | 220 |
| Mechanics of Low-Thrust Space Flight, II | 235 |

BY THE EDITORIAL BOARD

TABLE OF CONTENTS

Page
Orig. Trans.

Transactions of the Thirteenth Annual Conference on Nuclear Spectroscopy
(To be continued in Vol.27, No.7)

| | | |
|---|-----|-----|
| Energies of the first 2^+ levels and reduced probabilities for E2 transitions to these levels in spherical nuclei - B.L.Birbrair, K.I.Erokhina & I.Kh.Lemberg | 150 | 161 |
| Conversion electron spectra of Tb^{95m} and Tb^{96} - B.S.Dzhelepov, G.S. Katykhin, V.K.Maidanyuk & A.I.Feoktistov | 172 | 184 |
| Possibility of using a toroidal sector magnetic field for gamma-spectrometry - E.A.Arutyunyan, Yu.V.Khol'nov & G.E.Shchukin | 177 | 189 |
| Decay of Tm^{163} - K.Ya.Gromov, B.S.Dzhelepov, V.Zvol'ska, I.Zvol'skii & V.G.Kalinnikov | 182 | 193 |
| Decay scheme for Tm^{165} - K.Ya.Gromov, B.S.Dzhelepov, V.Zvol'ska, I. Zvol'skii, A.V.Zolotarev, L.L.Pelokis & Z.E.Pelokis | 195 | 205 |
| Conversion electrons from L_{II}^{173} and L_{II}^{174} in the 540 to 1450 keV energy range - V.A.Balalaev, B.S.Dzhelepov, A.I.Medvedev & I.F.Uchevatkin | 200 | 210 |
| Conversion electron spectrum of the cerium fraction from proton bombarded tantalum - B.S.Dzhelepov, A.I.Medvedev, I.F.Uchevatkin & S.A.Shestopalova | 204 | 214 |
| Rotational nature of the 2.2 MeV level of A^{127} - D.G.Akhazov, K.I. Erokhina & I.Kh.Lemberg | 211 | 221 |
| Levels of Sm^{150} excited in the (n,γ) reaction - L.V.Groshev, A.M. Demidov, V.A.Ivanov, V.N.Lutsenko & V.I.Pelokhov | 216 | 225 |
| Interpretation of the levels of P^{30} on the basis of the Nilsson model - A.K.Val'ter, E.G.Kopanets, A.N.I'vov & S.P.Tsytko | 228 | 242 |
| Investigation of the gamma-rays associated with the 1308 keV resonance in the $Si^{29}(p,\gamma)^{30}P$ reaction - A.K.Val'ter, E.G.Kopanets, A.N.I'vov & S.P.Tsytko | 232 | 245 |
| Analysis of β -decay of Bi^{210} (RaE), Pb^{210} (RaD) and Pb^{209} and the wave function of RaE - L.N.Zyryanova & V.M.Mikhailov | 235 | 248 |
| Investigation of neutron-deficient lutetium isotopes by means of a prism spectrometer with quadrupole lenses - V.V.Tichkevich, V.A. Romanov & M.G.Potubalina | 246 | 258 |
| Relative intensities of the gamma-rays from Ga^{72} - V.D.Vitman, N.A. Voinova & B.S.Dzhelepov | 249 | 261 |
| Internal pair conversion in the decay of Br^{82} - N.B.Badalov, S.S. Vasilenko, M.G.Kaganskii & D.L.Kaminskii | 258 | 268 |
| Internal pair conversion in the decay of As^{76} - N.B.Badalov, S.S. Vasilenko, M.G.Kaganskii & D.L.Kaminskii | 260 | 270 |
| Investigation of the conversion electron spectrum of Eu^{147} - O.D. Kovrigin, V.M.Kartashov, G.D.Iatyshov, G.A.Londarenko, A.F. Novgorodov, G.I.Sychikov & V.V.Shapovalenko | 263 | 272 |
| Probabilities of transitions from levels of the $K = 3^+$ band to levels of the ground state rotational band and analysis of such transitions in Yb^{172} - B.S.Dzhelepov & V.M.Mikhailov | 267 | 277 |

(continued)

Available From CTF

CONTENTS (Contd)

IZVESTIYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA, Vol XXVII, No 2, 1963.

| | | |
|--|-----|-----|
| Contribution of third forbiddenness to the spectrum and polarization of beta-particles from RaE - N.P.Popov | 283 | 292 |
| Gamma-rays emitted in the decay of Eu ¹⁵⁰ - G.A.Kotel'nikov & N. Shadiev | 286 | 295 |
| Design calculations for a double and two-fold $\pi/2$ focusing β - spectrometer - M.A.Listengarten | 290 | 298 |
| Concerning the properties of odd and odd-odd nuclei with $Z \geq 55$ and $N \leq 75$ - L.K.Peker & Yu.N.Novikov | 295 | 303 |
| Theory and operation of proportional counters - G.E.Kocharov & G.A.Korolev | 301 | 308 |

Available from CIA.

IZVESTIYA AKADEMII NAUK SSSR, SERIYA GEOFIZICHESKAYA

No 10, 1963
CONTENTS

| | Page | |
|--|---------|-----------|
| | English | Russian |
| PHYSICS OF THE SOLID EARTH | | |
| M. S. MOLODENSKIĬ, The Effect of Viscosity on the Phase of Earth Tides | 889 | 1469-1482 |
| M. S. MOLODENSKIĬ, The Directions of the Principal Axes in the State of Stress Caused by Earth Tides | 896 | 1483-1485 |
| V. D. GLASKO, E. P. SAVARENSKIĬ AND B. N. SITECHKOV, Data on the Phase and Group Velocities of Seismic Surface Waves | 898 | 1486-1493 |
| V. V. POPOV, The Relaxation of Thermal Stresses in the Upper Layers of the Earth | 903 | 1494-1507 |
| A. K. URUPOV, The Reduction of Errors When Studying Velocities From Reflected Wave Travel-Time Curves | 910 | 1508-1521 |
| V. F. ZAKHARCHENKO, The Distribution of Thermal Neutrons—Allowing For Deceleration—As Applied to Pulsed Neutron Logs in Geophysics | 918 | 1522-1531 |
| L. L. VAN'YAN, Build-Up of an Electromagnetic Field in an Anisotropic Layer | 924 | 1532-1539 |
| Scientific Reports | | |
| S. K. KUZOVKIN, An Effective Method for Electrical Compensation of the Primary Field in the Airborne Induction Method | 929 | 1540-1543 |
| S. A. KATS (KATZ), A Method of Calculating Complex Spectra of Impulse Functions by Means of an Amplitude Analyzer | 932 | 1544-1553 |
| PHYSICS OF THE SEA AND OF THE ATMOSPHERE | | |
| N. T. GLINSKIĬ AND S. G. BOGUSLAVSKIĬ, Influence of Internal Waves on Vertical Exchange in the Ocean | 938 | 1554-1560 |
| A. M. ZHUKOVETS, The Influence of Bottom Roughness on Wave Motion in a Shallow Body of Water | 943 | 1561-1570 |
| A. M. GOLOVIN, On the Kinetic Equation for Coagulating Cloud Droplets with Allowance for Condensation, III | 949 | 1571-1580 |
| V. N. IVANOV AND R. I. STRATONOVICH, On the Lagrange Characteristics of Turbulence | 954 | 1581-1593 |
| Scientific Reports | | |
| L. R. TSVANO (ZWANG), Some Characteristics of the Spectra of Temperature Fluctuations in the Boundary Layer of the Atmosphere | 961 | 1594-1600 |
| A. I. ERSHKOVICH, On the Role of Solar Cosmic Rays in the Formation of the Electronic Component of Radiation Zones of the Earth | 966 | 1601-1603 |

Available from ANU

NEWS OF HIGHER EDUCATIONAL INSTITUTIONS

Ministry of Higher and Secondary Specialized Education

- USSR -

Instrument Building Series

Vol VI, No 5, 1963

[Following is a translation of the Russian-language journal Izvestiya Vysshikh Uchebnykh Zavedeniy MVISSO SSSR po razdelu Priborostroyeniye Vol VI, No 5, 1963 (English version above), Leningrad, pages 3-147.]

TABLE OF CONTENTS

| | <u>Page</u> |
|--|-------------|
| RADIO ELECTRONIC INSTRUMENTS | |
| Unit for Measuring Integral and Differential Two-Dimensional Functions of Distribution. | 1 |
| Regularity of Characteristics of Secondary Emission Tubes. | 10 |
| INSTRUMENTS OF AUTOMATION AND COMPUTER TECHNIQUE | |
| Certain Principles Governing the Design of Memory Devices with Ferrite Cores and Full-Current Recording. | 20 |
| Concerning the Operating Stability of Electric Circuit with Active Units Containing Two Nonlinear Resistances. | 28 |
| Method of Optimum Acceleration of Electric Drive Until its 3-Stator Motor Rotates with Synchronous Speed. | 36 |

(continued)

Available From JPRS 23033

CONTENTS (Contd)

| | <u>page</u> |
|--|-------------|
| The Torque of Two-Phase Asynchronous Motor Controlled by Amplitude Modulated Voltage. | 44 |
| Reproduction of Tangential Function With the Aid of Rotary Sine-Cosine Transformer. | 57 |
| GYROSCOPIC AND NAVIGATIONAL INSTRUMENTS | |
| Problems in the Theory of Inertial Method of Measuring Acceleration of Motion of Aircrafts. | 66 |
| Investigating the Effect of Maneuvering an Object on a Gyropandulum Equipped with Correctors. | 79 |
| Concerning the Motion of Free Gyroscope with Uniformly Rotating Base. | 86 |
| INSTRUMENTS OF PRECISION MECHANICS | |
| Investigation of Acceleration Pickup Having Filtering Properties. | 97 |
| About One Method of Regulating the Movement of Clocks. | 109 |
| OPTICAL INSTRUMENTS | |
| Concerning the Image Inclination and Rotation in Optical Instruments. | 117 |
| Correcting Distortion in Negative System Having Extended Pupil | 127 |
| THERMAL INSTRUMENTS | |
| Experimental Method Determining the Equivalent Coefficient of Thermal Conductivity of Transformer Windings. | 143 |
| BRIEF REPORTS | |
| High-Speed Comparator. | 154 |
| Television Unit with Memory Tube for Production of Cliche. | 157 |
| Protecting the Triggering Element of a Code. | 160 |
| CHRONICLE | |
| Andrey Aleksandrovich Gershum. | 165 |

Available From JPRS 23033

NEWS OF HIGHER EDUCATIONAL INSTITUTIONS
 MINISTRY OF HIGHER AND SECONDARY SPECIALIZED EDUCATION
 USSR
 RADIO ENGINEERING SERIES
 Vol VI, No 4, 1963

[Following is a translation of the Russian-language journal
Izvestiya Vysshikh Uchebnykh Zavedeniy MVISSO SSSR po razdelu
 Radiotekhnika, Vol VI, No 4, 1963, (English version above),
 Jul-Aug issue, Kiev, pp 327-453.]

CONTENTS

| | <u>Page</u> |
|--|-------------|
| Quantum Generators and Light Amplifiers..... | 1 |
| Use of Technical Means in the Teaching Process..... | 61 |
| Some Prospects of the Development and Application of Teaching Machinery..... | 70 |
| Principal Trends in the Conversion of Higher Educational Institu- tions to Programmed Teaching Using Teaching Machines..... | 96 |
| Programmed Teaching of Radio Courses..... | 104 |
| Classification, Requirements, and Principles of Construction of Simplest Teaching Machines..... | 121 |
| Some Problems in the Teaching of Special Technical Disciplines Using Teaching Machines..... | 137 |
| Choice of Structure of Examining Machines..... | 152 |
| Automatic Devices for the Control of the Student's Current Progress | 165 |
| Examining and Teaching Machines With Branched Program..... | 182 |

(continued)

For Details from JPRS 22795

CONTENTS (Contd)

| | <u>Page</u> |
|--|-------------|
| Teaching Machine with Branched Program..... | 198 |
| Teaching Machine with Resultative Insertion of the Answer Information..... | 218 |

BRIEF COMMUNICATIONS

| | |
|--|-----|
| Automatic Device for the Control of Knowledge..... | 229 |
| Device for the Control and Self-Control of Knowledge in Programmed Teaching..... | 234 |
| Device for Teaching and Control of Assignments Dealing with Radio Receiver Circuits..... | 237 |
| Automatic Teaching Machines of the Control Type..... | 243 |
| Ways of Constructing a Control Machine..... | 248 |

DEFENSE OF DISSERTATIONS

| | |
|--|-----|
| Dissertations for the Scientific Degree of Candidate of Sciences (Moscow Order of Lenin Power Institute..... | 252 |
|--|-----|

Av: 11411 - From JPRS 12375

Soviet Physics CRYSTALLOGRAPHY

A Translation of the Journal "Kristallografiya"

(Russian Original Vol. 8, No. 4, pp. 499-688, July-August, 1963)

Vol. 8, No. 4, pp. 401-552

January-February, 1964

CONTENTS

| | PAGE | RUSS. PAGE |
|---|------|---------------|
| Application of the Method of Characteristics to the Theory of the Growth Forms of Crystals. <u>A. A. Chernov</u> (T) | 401 | 499 |
| Crystal Structure of the Ca, Na, Zr, Ti Silicate Rosenbuschite. <u>Ca_{2.5}Na_{2.5}Zr(Ti, Mn, Nb)(Si₂O₇)₁₁(OH, O). R. P. Shibaeva, V. I. Simonov, and N. V. Belov</u> (E) | 406 | 506 |
| The Determination of the Crystal Structure of Indenite. <u>I. M. Rumanova and A. Ashitov</u> (E) | 414 | 517 |
| Concerning the Crystal Structure of Zunzite <u>Al₁₂(OH)₁₈Si₂O₂₀Cl = [Al₁₂(OH)₁₈ Si₂O₂₀]·[Al(Si₂O₇)₂]Cl. Yu. G. Zagal'skaya and N. V. Belov</u> (T) | 429 | 533 |
| Electron Diffraction Study of the Structure of Ammonium Sulfate. <u>V. V. Udalova and Z. G. Pinsker</u> (E) | 433 | 538 |
| Electron Diffraction Study of a Superstructural Molybdenum Nitride. <u>N. V. Troitskaya and Z. G. Pinsker</u> (E) | 441 | 548 |
| A Study of the Structure of Thin Layers of Phases in the Ni-Te System. A Study of the β-Phase of NiTe. <u>G. G. Dvoryankina and Z. G. Pinsker</u> (E) | 448 | 556 |
| Concerning Two Crystal Modifications of the Hydrochloride of Gramicidin C. <u>G. N. Tishchenko and K. A. Zykalo</u> (E) | 452 | 561 |
| Structure of α-Benzeneazo-(Anisal-α'-Naphthylamine) in the Vitrified Liquid- Crystalline State. <u>I. G. Chistyakov and B. K. Vainshtein</u> (E/T) | 458 | 570 |
| Structure of Polymers Related to Collagen. Structure of the Low Molecular Weight Fraction of the Polypeptide (Glycine-Proline-Oxyproline) _n . <u>N. S. Andreeva and M. I. Millionova</u> (E/T) | 464 | 578 |
| The Crystal Structure of 1,8-Dihydroanthraquinone. <u>L. A. Chetkina and G. A. Gol'der</u> (E/T) | 467 | 582 |
| A New Inventory of Infinite One-Dimensional Oxygen-Silicon and Allied Radicals. <u>N. V. Belov</u> (R) | 471 | 587 |
| Crystallochemical Relationships in the Intermetallic Compounds of the Rare Earth Metals. <u>P. I. Krivyakovich, E. I. Gladyshevskii, O. S. Zarechnyuk, V. I. Evdokimenko, I. I. Zalutskii, and D. P. Frankevich</u> (R) | 477 | 595 |
| An X-Ray Diffraction Study of Solid Solutions of Al, Co, Cr, Sc in La and Pr Orthoferrites. <u>A. A. Katsnel'son and K. Yatsku'yak</u> (E/T) | 481 | 600 |
| Study of the Eutectoid Transformation in Copper-Tin and Copper-Beryllium Alloys. <u>M. I. Zakharova and I. B. Mogarycheva</u> (E/T) | 484 | 604 |

(continued)

Available From Amer Inst of Phys
Sov Phys - Crystal
Vol VIII, No 4

CONTENTS (continued)

| | PAGE | RUSS. PAGE |
|--|------|-------------------------|
| An X-Ray Diffraction Investigation of the Magnetic and Electric Properties of the System $BiFeO_3 - LaFeO_3$. <u>Yu. F. Roginskaya, Yu. N. Venevtsev, S. A. Fedulov, and G. S. Zhdanov</u> (E/T) | 490 | 610 |
| A Crystallographic Classification of Ferroelectrics, Ferroelectric Phase Transformations and Peculiarities of Domain Structure, and Some Physical Properties of Ferroelectrics of the Different Classes. <u>L. A. Shvvalov</u> (T) | 495 | 617 |
| Dislocation Structure in PbS Crystals in the Range of a Concentrated Load. <u>A. A. Urosovskaya, R. Tyagaradzhian, and M. V. Klassen-Neklyudova</u> (E/T) | 501 | 625 |
| Interaction of Dislocations in the Twinning of Crystals. <u>V. I. Startsev, V. Z. Bengus, S. N. Komnik, and F. F. Lavrent'ev</u> , (E/T) | 506 | 632 |
| Artificial Slip Formation and Dislocation Structure in Sodium Chloride Crystals. <u>E. M. Nadgorny and A. V. Stepanov</u> , (E/T) | 512 | 641 |
| A Topographic X-Ray Diffraction Study of MgO Crystals. <u>V. F. Minsky and A. R. Lang</u> , (E) | 520 | 652 |
| Substructure and Distribution of Dislocations in Single Crystal and Polycrystalline Aluminum. <u>B. M. Rovinski, F. P. Kostyukova, and V. G. Lyutisau</u> (F) | 524 | 657 |
| Geometrical Aberrations and Optimum Conditions for Diffractometric Measurements of Polycrystals. <u>I. S. Zevin, M. M. Umanski, and D. M. Kheiker</u> , (T/E) | 528 | 663 |
| BRIEF COMMUNICATIONS | | |
| A Useful Theorem in Structural (Lattice) Crystallography. <u>F. A. Pohedinskaya and N. V. Belov</u> (T) | 536 | 674 |
| Coherent-Scattering Amplitudes for Neutrons and Gallium Nuclei. <u>Yu. S. Kuz'minov and N. V. Belov</u> (E) | 537 | 675 |
| Yttrium-Beryllium Minerals of the Datolite Group. <u>F. I. Semenov, V. D. Dumatov, and N. S. Samsonova</u> , (E) | 539 | 677 |
| Observation of the Domain Structure in Potassium Diphosphate by Means of Frenel. <u>S. D. Tashch</u> (E/T) | 541 | 680 |
| Cinemicrography of Etching and the Behavior of Dislocation in NaCl Crystals. <u>V. M. Stepanova</u> , (E) | 543 | 682 |
| The Closed-Tube Method of Growing Thin Films of Germanium on Germanium Seeds. <u>V. K. Andriashin, Yu. P. Boltov, N. V. Baltushkina, and V. V. Mitrofanov</u> , (E) | 545 | 684 |
| The Problem of a New Course in Crystal Morphology. <u>I. I. Shafranovskii</u> (R) | 547 | 687 |
| Announcements | 549 | inside back cover |

Available From Amer Inst of Phys
Sov Phys - Crystal
Vol VIII, No 4

SOVIET SOIL SCIENCE

ПОСВОВЕДНИКЪ

No. 9, September 1962

Translation printed: January 1964

CONTENTS

| | Page | Russian Page |
|---|------|-----------------|
| IVAN VLADIMIROVICH TYURIN | 893 | 1 |
| SCHEMATIC SOIL-MELIORATIVE REGIONALIZATION OF THE VOLGA RIVER DELTA, by V. V. Yegorov, A. A. Popov and N. N. Konovalov . . . | 895 | 4 |
| TRACE ELEMENTS IN SOILS OF THE KLIN-DMITROV RIDGE, by K. V. Verigina | 902 | 14 |
| USE OF LEAF DIAGNOSIS FOR MORE ACCURATE DETERMINATION OF THE LIMITS OF TRUOG'S METHOD FOR OMSK OBLAST CHERNOZEMS, by N. K. Boldyrev | 911 | 25 |
| ROLE OF THE BIOLOGICAL FACTOR IN THE FORMATION OF ALKALI IN SOLONETZES, by N. S. Ponomareva | 920 | 33 |
| EFFECTIVENESS OF SUMMER PRECIPITATION IN AN ARID CLIMATE, by M. M. Abramova | 929 | 44 |
| DETERMINATION OF AVAILABLE PHOSPHATES IN SOIL USING ISOTOPE TRACERS, by Chang, Fu-Chu | 937 | 54 |
| GENESIS OF STRONGLY COMPACTED SOILS IN THE URAL AND KURAN RIVER VALLEYS (IN THEIR MIDDLE REACHES), by T. L. Bystritskaya | 941 | 59 |
| MOISTURE CONSUMPTION BY BIRCH AND CHINESE ELM PLANTATIONS ON URAL DARK CHESTNUT SOILS, by I. T. Stepanets | 949 | 69 |
| PRECIPITATION OF SILICA ON FREEZING OF SOIL SOLUTIONS, by Yu. A. Slavnyy and E. S. Vorob'yeva | 958 | 80 |
| METHODS | | |
| STUDY OF LEACHING AND MIGRATION OF RADIUM IN SOILS, by G. V. Rusanova | 962 | 85 |
| QUICK METHOD FOR A SHORT TOTAL CHEMICAL ANALYSIS OF SOILS, by Yu. I. Dobritskaya | 965 | 88 |
| DETERMINATION OF SOIL NITRATES BY REDUCTION TO NITRITES, by I. Ya. Shafershteyn, I. Ye. Savva and I. M. Lipkind | 973 | 96 |
| STATE OF THE SOIL PROBLEM IN SCHOOL GEOGRAPHY, by F. I. Pugach | 979 | 102 |
| REVIEWS | | |
| SOIL WATER MOVEMENT IN THE FILM AND VAPOR PHASE UNDER THE INFLUENCE OF EVAPOTRANSPIRATION, by M. Hallaire | 984 | 107 |
| CHRONICLE | | |
| WORK CONDUCTED BY THE AGRICULTURAL CHEMISTRY SECTION OF THE HOUSE OF SCIENTISTS, by E. I. Shkonde | 992 | 113 |

(continued)

Available From Scripta Technica

CONTENTS (Contd)

POCHVOVEDENIYE, No 9, 1962.

| | Page | Russian Page |
|---|------|-----------------|
| SYMPOSIUM ON SOIL FAUNA IN KIEV, by M. E. Giljarov | 993 | 116 |
| IN MEMORIAM OF KONSTANTIN DMITRIYEVICH GLINKA, by A. A. Zavalishin and V. A. Dolotov | 996 | 117 |
| ANDREY IVANOVICH BEZSONOV | 997 | 121 |
| DR. ALEXANDER MCHR | 1000 | 124 |
| BIBLIOGRAPHY | 1002 | 127 |

Available From Scripta Technica

| | | |
|--|----|------|
| All Efforts - Toward a Further Growth in Non-Ferrous Metals Development by I. A. Strigin..... | 1 | (1) |
| The Use of Electronic Computers to Examine Ores for their Ability to be Concentrated , by L. A. Barskii..... | 7 | (8) |
| Methods of Developing the Automation of Ore Dressing Plants , by G. S. Nestorov..... | 11 | (12) |
| Industrial Tests on a Radioactive Level Gage for the Clarified Layer in a Thickener , by V. V. Smirnov and G. A. Khan..... | 15 | (15) |
| Simulation of Concentration Process Parameters Using Computers , by M. Bonesh..... | 20 | (21) |
| Optimum Current Density when Electrorefining Copper , by A. I. Iavin and M. I. Nomborg..... | 28 | (29) |
| Using Gaseous Reducing Agents to Convert Zinc Sulfate to an Oxide , by A. K. Evdokimova and K. I. Matveev..... | 37 | (38) |
| Thermocementation Method of Coating Aluminum with a Lead Alloys Having a Low Silver Content , by O. A. Khan..... | 40 | (41) |
| Condensation of Mercury Vapors in Apparatus Using Internal Water Cooling , by G. A. Lakhtin, V. A. Til'ga, A. A. Rozlovskii, V. A. Bogdanov and Yu. A. Afashagov..... | 43 | (44) |
| Flowsheets for the Complex Processing of Slags from Non-Ferrous Metallurgical Plants , by V. I. Smirnov, Yu. A. Yablonskii, A. I. Tikhonov and B. V. Lebed'..... | 49 | (50) |
| Influence of Certain Factors on Slime Formation in Magnesium Electrolyzers , by Kh. L. Streleta and N. V. Bondarenko..... | 55 | (56) |
| Chemism of Process and Composition of Solid Phases Formed when Sodium and Aluminum Fluorides Interact , by M. N. Smirnov..... | 60 | (61) |
| Processing Molybdenum Intermediate Products to Ammonium Molybdate for Agriculture , by K. Ye. Shapiro, Yu. N. Yurkevich and V. A. Skorov.... | 66 | (67) |
| "Micrometallurgy" of Alloys for Semiconductor Instruments , by V. M. Soboleva and A. E. Likhtmn..... | 69 | (70) |
| The Deformation Ratio in Cold-Rolling Titanium Alloy Tubes , by Yu. I. Kuzinovich..... | 73 | (75) |
| Adoption of "Spidem" Three-Strand Drawing Machines , by D. A. Egorov and K. T. Kim..... | 78 | (79) |
| Enthalpy and Decomposition Voltage of Zirconium and Hafnium Lower Chlorides , by L. P. Ruzinov and S. F. Belov..... | 84 | (85) |
| Operation of a Battery of Continuously Running Decomposers Employing Air Mixing , by P. O. Vol'pin, A. I. Dem'yanenko and A. I. Lyapunov... | 85 | (86) |
| Tall Oil - An Oleic Acid Substitute , by E. G. Poboikova and I. V. Petrova..... | 88 | (89) |
| Introducing Rare Metals to the Production of Highly-Efficient Materials , by V. A. Obelochik..... | 92 | (91) |
| Review of "Alloys with Refractory Compound Bases" , by G. V. Samsonov and K. I. Portnoi. Reviewer - A. I. Avgustnik..... | 94 | (94) |
| New Technical Literature | 95 | (94) |

Available From IS

JOURNAL OF ANALYTICAL CHEMISTRY

OF THE USSR

A translation of (ZHURNAL ANALITICHESKOI KHIMII)

A publication of the Academy of Sciences of the USSR

© 1964 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Volume 18, Number 2

February, 1963

CONTENTS

| | P A G E | |
|--|---------|-------|
| | ENG. | RUSS. |
| Antipyrine Dyes As Analytical Reagents, Communication 1, The Relation Between the Composition and Reactivity of Dyes —V. P. Zhiyopustev and M. N. Zhelnokova | 135 | 148 |
| A Study of the Conditions for Precipitating Potassium with Sodium Tetraphenylboron —G. G. Rumalkova | 140 | 154 |
| A Comparative Study of Some Reagents for the Photometric Determination of Beryllium —V. I. Kuznetsov, I. I. Bol'shakova, and Fung Ming- <i>Ch</i> | 145 | 160 |
| A Study of the Interaction of Yttrium with the Boron-Pyrocatechol Violet Complex —L. S. Serdyuk and U. F. Sifich | 151 | 166 |
| Color Reactions of Germanium with Organic Reagents of the Orthodiphenol Type —V. A. Nazarenko and G. V. Flyuntikova | 156 | 172 |
| The Use of <i>N</i>-Acetylaniline for the Extraction Photometric Determination of Titanium —Sh. T. Talipov and K. G. Nigal | 161 | 178 |
| Spectrophotometric Determination of Niobium and Tantalum by Means of 1-(2-Pyridylazo)-Resorcinol —I. P. Alimarin and Han Si-I | 165 | 182 |
| New Photometric Methods for Determining Niobium and Tantalum in Metals and Alloys Communication 1. Photometric Determination of Niobium by Means of 1-(2-Pyridylazo)-Resorcinol —S. V. Elinson and L. I. Pobedina | 171 | 189 |
| Determination of Niobium and Titanium in the Form of Their Ternary Complexes with Phosphomolybdic Acid —Yu. F. Shkaravskii | 177 | 196 |
| An Investigation of the Catalytic Properties of Rhodium —A. I. Lazarev, V. I. Lazareva, and V. V. Rodzaevskii | 181 | 202 |
| 1-(2-Pyridylazo)-Resorcinol As a Reagent for the Photometric Determination of Cobalt —A. I. Buev and V. M. Ivanov | 186 | 208 |
| Spectrochemical Determination of Platinum, Palladium, and Gold in Rocks —R. S. Rubinovich, R. Ya. Epshtein, and O. N. Sosha'p'skaya | 192 | 216 |
| The Use of Cuprous Chloride in the Analysis of Platinum Metals —S. I. Ginzburg, M. I. Yuz'ko, and N. N. Chalisova | 197 | 222 |

(continued)

Available From CB

CONTENTS (continued)

| | P A G E | |
|--|----------------|--------------|
| | ENG. | RUSS. |
| A Kinetic Method for Determining Microamounts of Osmium in Solution -K. B. Yatsiminskii and N. V. Parkhomenko | 203 | 229 |
| Barium Rhodizonate Complexes and Their Use for the Photometric Determination of Sulfate -A. K. Babko and V. A. Litvinenko | 210 | 237 |
| Spectrographic Analysis of High Purity Tungsten Trioxide by the Evaporation Method -O. F. Degtyareva and M. F. Ostrovskaya | 217 | 245 |
| Determination of Oxygen in Indium, Gallium, and Their Alloys -N. M. Vasil'eva, N. F. Litvinova, and Z. M. Turovtseva | 222 | 250 |
| Partition Chromatography on Ion Exchange Resins. Communication 2. Separation of Halogenate and Halide Ions -G. I. Starobinets and S. A. Mechkovskii | 227 | 255 |
| Polarographic Determination of the Monomers of 4-Vinylphenyl and Its Derivatives in Polymers and Copolymers with Styrene -V. S. Bezuglyi and T. A. Alekseeva | 231 | 261 |
| Thin Layer Chromatography of Some Alkylphenols and Alkylcyclohexanones -L. A. Khelits, G. I. Moldovanskaya, and L. M. Shulov | 237 | 267 |
| Spectropolarimetric Analysis. Communication 2. Quantitative Determination of Furfural and Salicylaldehyde -V. M. Potapov, G. P. Moiseeva, and A. P. Terent'ev | 245 | 275 |
| BRIEF COMMUNICATIONS | | |
| Chelonic Acid as a Supporting Electrolyte for Polarography in the Extreme Negative Potential Range -G. S. Supin | 248 | 278 |
| Ion Exchange Separation of Ferric and Phosphate Ions -M. Kozhukharov and N. Gudev | 250 | 280 |
| A Rapid Method for the Quantitative Determination of Gd³⁺ in Rare Earth Salt Solutions -N. S. Garif'yanov, R. X. Mazitov, and N. P. Ushacheva | 252 | 283 |
| Separation of Vinyl Esters by Paper Chromatography. Qualitative Determination of Vinyl Acetate and Vinyl Alkyl Esters of Dicarboxylic Acids -S. M. Zhenodarova, M. N. Adamova, and L. A. Lyapova | 253 | 285 |
| Information on the International Union of Theoretical and Applied Chemistry | 256 | 288 |

Available From CPB

JOURNAL OF ANALYTICAL CHEMISTRY

OF THE USSR

A translation of (ZHURNAL ANALITICHESKOI KHIMII)

A publication of the Academy of Sciences of the USSR

© 1963 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N. Y.

Volume 18, Number 3

March, 1963

CONTENTS

| | P A G E | |
|---|---------|-------|
| | ENG. | RUSS. |
| Spectrophotometric Study of the Analytical Reagent Beryllon II - L. P. Adamovich and A. P. Mimaya | 269 | 292 |
| Partition Chromatography on Ion Exchange Resins. Communication 3, Separation of Oxidizing Anions - G. L. Starubinski and S. A. Mechkovskii | 264 | 298 |
| Rapid Methods for the Titrimetric Determination of the Capacity of Anion Exchange Resins - N. G. Polyanski and M. A. Shaburov | 269 | 304 |
| The Use of Quantometers for Analyzing Geological Materials - Yu. I. Belyaev and L. M. Khltrov | 276 | 310 |
| Some Characteristic Features of the Polarography of Alkali Metal Ions in Aqueous and Aqueous-Ethanollic Media - G. S. Supin | 282 | 318 |
| A Study of the Composition of Silver-Thiourea Complexes Formed During Amperometric Titration - N. N. Kuz'mina and O. A. Songina | 286 | 323 |
| Flame Photometric Determination of Barium in Natural Materials - E. A. Fabrikova and A. G. Isaeva | 291 | 329 |
| A Study of the Reaction of Tetravalent Plutonium with Arsenazo III - A. A. Nemodruk and N. E. Kochetkova | 295 | 333 |
| A Spectrographic Method for Determining Microimpurities in Gallium Arsenide after Preliminary Concentration - G. A. Kataev and Z. I. Otmakhova | 300 | 339 |
| Hydroxamic Acids as Analytical Reagents. Communication 1. A Spectrophotometric Study of the Reaction of Titanium with Benzhydroxamic Acid - I. P. Alimarin, N. P. Borzenkova, and R. I. Shmatko | 302 | 342 |
| High Frequency Titration. Communication 7. A Study of the Carbonate Compounds of Thorium - D. I. Ryabchikov, M. P. Volynets, V. A. Zarinskii, and V. I. Ivanov | 307 | 348 |
| The Solubility Product of Lead Molybdate - M. L. Chchelevetskii and K. F. Kharitonovich | 314 | 357 |
| Derivatives of Thioglycolic Acid - N-(Mercaptoacetyl)-Para-Anilidine, and N-(Mercaptoacetyl)-Para-Toluidine - as Reagents for Selenium - A. I. Rudev and Hoang MinChau | 317 | 360 |

(continued)

Available From CB

CONTENTS (continued)

| | P A G E | |
|---|----------------|--------------|
| | ENG. | RUSS. |
| Indirect Titrimetric Determination of Bromides with Complexon III (Sodium Ethylenediaminetetraacetate) - S. I. Guay and I. A. Kozhevnikova | 321 | 366 |
| Determination of Microamounts of Iodine in Natural Waters by a Catalytic Method - A. D. Miller and L. A. Shneider | 325 | 371 |
| Determination of Copper, Lead, Cadmium, and Zinc as Impurities in Special Purity Indium and Its Salts by Amalgam Polarography with a Stationary Electrode - S. I. Sinyakova, A. G. Dudarova, I. V. Maskova, and I. N. Tolstaya | 330 | 377 |
| Polarographic Control of the Individual Stages During the Synthesis of Certain Monomers - V. D. Bezugiy, V. N. Dmitrieva, L. A. Mel'nik, E. A. Preobrazhenskaya, I. A. Shkodina, R. S. Mil'ner, M. I. Dovgosheya, and A. S. Dykhanova | 337 | 385 |
| Separation of Mixtures of Organic Materials by a Simplified Counter-Current Extraction Method - V. M. Rashlova and N. A. Figurovskii | 347 | 396 |
| Determination of the Composition of Some Essential Oils by Gas Liquid Chromatography - A. K. Moyshechev and V. G. Voronin | 351 | 401 |
| BRIEF COMMUNICATIONS | | |
| Preparation of Pure Precipitates by the Use of "In Situ Nascent" Reagents - A. P. Terent'ev, K. I. Litvin, and E. G. Rukhadze | 356 | 408 |
| A Photometric Method for Determining Cerium in a Methanolic Suspension of Aluminum Oxide - N. G. Merdlina | 358 | 408 |
| Quantitative Determination of N-Arylhydroxylamines by Potentiometric Titration with Sodium Nitrite - O. P. Shvaika and E. G. Prosenko | 360 | 410 |
| Coulometric Microdetermination of Hydrogen in Organic Compounds - G. F. Anisimova and V. A. Klimova | 362 | 412 |
| CRITICISM AND BIBLIOGRAPHY | | |
| *Microchemical Journal Symposium Series. Vol. 1. Submicrogram experimentation - I. P. Alimarin and O. M. Petrukhin | 364 | 414 |
| Methods for Analysing Specially Pure Materials and Monocrystals - V. M. Ivanov | 365 | 415 |

Available From CR

JOURNAL OF ANALYTICAL CHEMISTRY

OF THE USSR

A translation of (ZHURNAL ANALITICHESKOI KHIMII)

A publication of the Academy of Sciences of the USSR

© 1983 CONSULTANTS BUREAU ENTERPRISES, INC.
327 West 17th Street, New York 11, N. Y.

Volume 18, Number 4

April, 1983

CONTENTS

| | P A G E | |
|---|---------|-------|
| | ENG. | RUSS. |
| Synthesis and Study of Phenohydroxynaphthofuchtonedicarboxylic Acid as an Analytical Reagent— <i>I. P. Adamovich, A. P. Mitaya, and A. V. Starchenko</i> | 360 | 420 |
| A New Method of Increasing Selectivity during Extraction of Chelate Compounds— <i>V. V. Bagreev and Yu. A. Zolotov</i> | 373 | 425 |
| Polarographic Study of Unithiol on a Dropping Mercury Electrode— <i>Kh. K. Osipov, Z. B. Rozhdavenskaya, and O. A. Songina</i> | 377 | 430 |
| Atomic Absorption Analysis Using Flame Exhaust Gases— <i>Yu. V. Zelyukova and N. S. Poluëktov</i> | 381 | 435 |
| Direct Determination of Calcium in Plants, Soils, and Milk by Means of a Flame Photometer— <i>D. E. Popov and A. I. Mikhaliyova</i> | 385 | 443 |
| A New Reagent for the Photometric and Complexometric Determination of Calcium— <i>A. M. Lukin, K. A. Smirnova, and G. B. Zavarikhina</i> | 389 | 444 |
| Amalgam Polarography with Accumulation on a Stationary Mercury Electrode—Polarographic Behavior of Gallium— <i>M. S. Zakharov</i> | 394 | 450 |
| Determination of Ultrasmall Amounts of Gallium, Zinc, and Cadmium in High Purity Aluminum by Anodic Voltamperometry on a Stationary Mercury Electrode— <i>I. N. Vasil'eva and E. N. Vinogradova</i> | 397 | 454 |
| Complexometric Determination of the Rare Earths in the Presence of Diethylphosphoric Acids— <i>Z. A. Sheka and E. I. Sinyavskaya</i> | 401 | 460 |
| A Spectrophotometric Study of the Peroxide Complexes of Cerium— <i>V. N. Tikhonov and V. N. Podchatnova</i> | 403 | 463 |
| Quantitative Separation of Thorium and Titanium by Ion Exchange Chromatography— <i>I. P. Alimarin, A. M. Medvedeva, and M. A. Burlova</i> | 407 | 468 |
| The Oxidimetric Determination of Niobium in Complex Carbide Mixtures— <i>E. E. Kotlyar and T. N. Nazarchuk</i> | 412 | 474 |
| A Photometric Study of the Interaction of Tetravalent Uranium with Arsenazo III— <i>A. A. Nemodruk and P. N. Palei</i> | 416 | 480 |

(continued)

Available From CB

CONTENTS (continued)

| | PAGE | RUSS. PAGE |
|---|------|---------------|
| A Study of the Luminescence of Uranyl sulfate and Uranyl Fluoride Solutions in Order to Increase the Sensitivity of Uranium Determination—T. S. Dobrolyubskaya | 421 | 486 |
| The Use of Thermogravimetry in Analytical Chemistry. Communication 4. Thermogravimetric Study of Plutonium (IV) Iodate—I. S. Sklyarenko and T. M. Chubukova | 425 | 492 |
| Determination of Rhenium with α -Furildioxima in the Presence of Molybdenum —V. M. Peshkova, N. G. Ignat'eva, and G. P. Ozerova | 428 | 496 |
| The Use of Mercaptopropionic Acid Derivatives in Analytical Chemistry. Communication 1. Extraction Photometric Determination of Palladium with 1-Mercaptopropionic-p-Antisidite and 1-Mercaptopropionic-p-Toluidide—A. I. Dusev and A. Naku | 431 | 500 |
| A Method for Concentrating Fluoride Ions during Analysis of Natural Water—M. Ya. Shapiro and V. G. Kolesnikova | 437 | 507 |
| Spectrographic Analysis of High Purity Aluminum—O. F. Degtyareva, L. G. Sintayna, and A. E. Proskuryakova | 440 | 510 |
| Lithium Aluminum Hydride in Analysis. Communication 1. Determination of Active Hydrogen in Organic Materials in Ethyl Ether Solution—A. P. Terent'ev, G. G. Larikova, and E. A. Bondarevskaya | 444 | 514 |
| Polarographic Determination of 2,4- and 2,5-Dimethylstyrene in Polymers in the Form of Their Pseudonitrosites—T. A. Alekseeva, L. G. Uskova, and V. D. Bezuglyi | 449 | 520 |
| Determination of Nitrobenzene in the Presence of Carbon Tetrachloride—R. E. Shindel' and A. A. Ponomarenko | 453 | 525 |
| A Semimicro Method for Determining Cholesterol and β -Sitosterol—Ya. M. Perel'man and G. F. Gavrilin | 456 | 529 |
| A Photometric Method for Determining Polychloroterpenes—N. H. Nikolov and L. Donov | 458 | 532 |
| BRIEF COMMUNICATIONS | | |
| A Conductimetric Method for Determining Aluminum in the Presence of Iron and Manganese —G. B. Pasovskaya | 462 | 537 |
| Extraction Separation of Tin and Antimony from Indium by Means of N-Benzoylphenylhydroxyl- amine—E. B. Rukovskii and O. M. Petrukhin | 464 | 539 |
| The Interaction of Thorium with Sodium Hexamethylenediaminetetracetate—D. I. Ryabchikov, M. P. Volynets, and V. A. Zarinskii | 466 | 542 |
| The Use of Formazans in Analytical Chemistry. Communication 3. N, N'-Di-(2-Hydroxy-6-Sulfonphenyl)-C-Cyanoformazan—A New Reagent for Zirconium Determination—N. I. Vasil'eva and M. I. Ermakova | 469 | 545 |
| A New Method for Detecting Organic Sulfoxides—A. P. Safronov | 471 | 548 |
| Photometric Determination of Small Amounts of Tellurium in the Form of Telluritetungsten Blue—B. Sh. Ganelina | 473 | 551 |

Available From CB

CONTENTS

| | Page | Russian | Reference |
|---|------|---------|-----------|
| Measurement of the Nuclear Specific Heats of Iridium and Rhodium in Iron Alloys. (E) A. V. Kogan, V. D. Kul'kov, L. P. Nikitin, N. M. Reznov, and M. F. Stel'makh | 1 | 45, | 1 |
| Kinetic Energy of Fragments Produced in Symmetric Fission of U^{235} . (E) P. P. Dyachenko, B. D. Kuz'minov, L. S. Kutsaeva, V. N. Okolovich, G. N. Smirenkin, and A. N. Utyuzhnikov | 6 | 45, | 5 |
| Fluctuations of Electron-Photon Showers in Xenon. (E) B. Nichporuk and Z. S. Strugalskii | 10 | 45, | 12 |
| Inelastic Scattering of 2.00-GeV π^- Mesons on Nucleons and Carbon Nuclei. (E) G. I. Merzon and L. P. Kotenko | 14 | 45, | 18 |
| Shift of the Ferromagnetism-Antiferromagnetism Transition Point in Dysprosium under Hydrostatic Pressure. (E) K. P. Bolov, S. A. Nikitin, and A. V. Pod'ko | 20 | 45, | 26 |
| Identification of Particles by the Photographic Emulsion Technique. (E) I. Ya. Chasnikov, Z. V. Anzon, Zh. S. Takibaev, and I. S. Strel'tsov | 23 | 45, | 29 |
| Cross Section of the $Rh^{103}(\gamma, p)$ Reaction. (E) B. S. Ishkhanov, E. N. Kornienko, Yu. I. Sorokin, V. G. Shevchenko, and B. A. Yur'ev | 29 | 45, | 38 |
| The Fermi Surface of Tungsten. (E) N. V. Volkenshteyn, V. N. Kachinskii, and L. S. Starostina | 32 | 45, | 43 |
| Deviation from Kohler's Rule in Pure Aluminum. (E) E. S. Borovik, V. G. Volotskaya, and N. Ya. Fogel' | 34 | 45, | 46 |
| Galvanomagnetic Properties of Indium in Strong Effective Fields. (E) V. G. Volotskaya | 36 | 45, | 49 |
| The Odd Component of the Galvanomagnetic Effect in the Ferrimagnetic Compound Mn_2Ge_2 . (E) S. S. Levina, V. N. Novogrudskii, and I. O. Pakidov | 38 | 45, | 52 |
| Angular Distributions of Multiply Charged Particles Produced by 75-350 MeV Protons. (E) M. M. Makarov | 41 | 45, | 50 |
| Antiferromagnetic Resonance in $MnCO_3$. (E) A. S. Borovik-Romanov, N. M. Kreines, and L. A. Prozorova | 40 | 45, | 64 |
| Effect of Pressure on the Fermi Surfaces of Zinc and Cadmium. (E/T) Yu. P. Gudukov and E. S. Itskevich | 51 | 45, | 71 |
| Investigation of a Pulsed Discharge in a High-Velocity Air Stream. (E) B. V. Kalachev | 59 | 45, | 63 |
| A Hyperon Production by 7-8 GeV Negative Pions in Hydrogen. (E) V. A. Belyakov, V. I. Veksler, N. M. Viryasov, I. Vrana, Kim Hi In, E. N. Kluditskaya, A. A. Kuznetsov, A. Mikhail, Nguyen Dinh Tu, M. I. Solov'ev, T. Hofmohl, and Ch'eng Ling-Yen | 64 | 45, | 88 |
| Polarization of A Hyperons Produced in π^-p Interactions at 7 GeV. (E) V. A. Belyakov, Wang Yang-Chang, V. I. Veksler, N. M. Viryasov, Tu Yuan-T'ang, Kim Hi In, E. N. Kluditskaya, A. A. Kuznetsov, Nguyen Din Tu, V. I. Penev, and M. I. Solov'ev | 66 | 45, | 99 |
| Radiative Capture of Resonance Neutrons by the Pr^{140} Nucleus. (E) Jan Urbancec | 68 | 45, | 93 |
| Surface Tension of Deuterohydrogen. (E) V. N. Grigor'ev | 72 | 45, | 93 |
| Four-Millimeter Molecular Beam Generator Based on the $I_{01} \rightarrow 0_{02}$ Transition in the CH_3O Molecule. (E) A. F. Krupnov and V. A. Skvortsov | 74 | 45, | 101 |
| Polarization of Elastically Scattered 6.5-MeV Deuterons. (E) Yu. A. Nemilov and I. A. Pobedonostsev | 76 | 45, | 103 |
| Determination of the Mutual Arrangement of Nucleon Associations in a Nucleus by Aid of the Directed Orbital Method. (T/E) S. Matthes, V. G. Neudachin, and Yu. F. Smirnov | 79 | 45, | 107 |
| Relativistically Invariant Transformations in Wave Function Space. (T) A. A. Borgardt | 86 | 45, | 116 |
| Transverse and Longitudinal States of Boson Fields and Dibaryon Particles. (T) A. A. Borgardt | 90 | 45, | 123 |
| Validity of the Doublet Symmetry Hypothesis at High Energies. (T) V. N. Strel'tsov | 93 | 45, | 128 |
| Application of Some Nuclear Theory Methods to Molecular Collisions. (T) S. Matthes and V. G. Neudachin | 95 | 45, | 131 |
| Field Theory with Nonlocal Interaction. II. The Dynamical Apparatus of the Theory. (T) D. A. Kirzhnits | 103 | 45, | 144 |
| Collisions of Slow Heavy Atoms. (T) B. M. Smirnov | 111 | 45, | 155 |
| The Effect of Collisions on the Excitation Spectrum of a System of Electrons. (T) Yu. Ya. Pelyuk and V. M. Eleonskii | 114 | 45, | 159 |
| Lepton Decays of Hypernuclei. (T) V. A. Lyul'ka | 117 | 45, | 164 |
| Anomalous Resonance Spin Flip of a Particle in a Magnetic Field. (T) Kh. A. Shanyan and Yu. F. Orlov | 123 | 45, | 173 |
| Negative Temperature States in Chemical Reactions. (T/F) A. N. Ornevskiĭ | 126 | 45, | 177 |
| Quadrupole Resonances of Atomic Nuclei. (T/E) V. G. Shevchenko, N. P. Yudin, and B. A. Yur'ev | 128 | 45, | 180 |
| Molecular Gyromagnetism. (T) Ch. K. Mukhtarov | 131 | 45, | 185 |

(continued)

Available From Amer Inst of Phys
 Sov Phys - JETP
 Vol XVIII, No 1

CONTENTS—continued

| | Page | Russian Reference |
|---|------|-------------------|
| Interference Phenomena in Radiative K^0 Decays. (T) I. S. Tsukerman | 133 | 45, 188 |
| Charge Transfer at Small Resonance Defects. (T) Yu. N. Demkov | 138 | 45, 195 |
| Meson Production in Neutrino Experiments and the Isotopic Structure of Weak Interactions. (T) Nguyen Van Hieu | 143 | 45, 202 |
| The Possibility of Resonance Transmission of Electrons in Crystals Through a System of Barriers. (T) L. V. Iogansen | 146 | 45, 207 |
| Investigation of Nucleon Induced Deuteron Disintegration by the Diagram Summation Technique. (T) V. V. Komarov and A. M. Popova | 151 | 45, 214 |
| Spatial Correlation of Nucleons in Light Nuclei. (T/E) N. A. Vlasov | 160 | 45, 228 |
| Temperature Dependence of the Line Width of Resonance Absorption by the Lattice of Ionic Crystals. (T) L. E. Gurevich and I. P. Ipatova | 162 | 45, 231 |
| On Interacting Fields with Definite Spin. (T) V. I. Oglevetskii and I. V. Polubartnov | 165 | 45, 237 |
| Regge Poles in the Scattering from a δ Potential. (T) V. M. Arutyunyan, I. I. Goldman, and G. A. Nagorskii | 172 | 45, 246 |
| Gravitational Transmutations of Fermions. (T) Yu. S. Vladimirov | 176 | 45, 251 |
| Optimal System of Basis Functions in the Theory of Collisions between Electrons and Atoms. (T) B. A. Veklenko and A. N. Starostin | 182 | 45, 260 |
| Radiation Units and Critical Energies for Various Substances C. I. Dovzhenko and A. A. Pomanski | 187 | 45, 268 |
| Coherence of States in the Scattering of Modulated Light. (T) O. V. Konstantinov and V. I. Perel' | 195 | 45, 279 |
| Fermion Regge Poles and the Compton Effect. (T) V. G. Gorshkov, M. P. Rekalov, and G. V. Frelov | 199 | 45, 285 |
| Intensity of Cerenkov Radiation with Dispersion Taken into Account. (T) V. P. Zrelov | 203 | 45, 291 |
| πN Scattering Partial Waves with Account of $\pi\pi$ Interaction. (T) P. S. Isaev, V. I. Lend'el, and V. A. Meshcheryakov | 205 | 45, 294 |
| Radiation Emitted by Fast Particles in a Nonstationary Inhomogeneous Medium. (T) K. A. Barsukov and B. M. Bolotovskii | 211 | 45, 303 |
| Empirical Behavior of the (n, p) Cross Section for 14–15 MeV Neutrons. (E) V. N. Levkovskii | 213 | 45, 305 |
| Polarization Phenomena in the Compton Scattering on a Moving Electron and the Possibility of Obtaining Beams of Polarized Photons F. R. Arutyunyan, I. I. Goldman, and V. A. Tumanyan | 218 | 45, 312 |
| Contribution to the Statistical Theory of Nuclear Level Spacing. (T) A. V. Malyshev | 221 | 45, 316 |
| Ionization Losses in an Inhomogeneous Medium. (T) N. P. Kalashnikov and M. I. Ryazanov | 227 | 45, 325 |
| Emission of a Photon by a Fast Particle Interacting with Elementary Excitations in Matter. (T) M. I. Ryazanov | 232 | 45, 333 |
| Coherent Amplification of Spin Waves. (T) A. I. Akhiezer, V. G. Baryakhtar, and S. V. Peletminskii | 235 | 45, 337 |
| On the Absorption of Gamma Rays in Intergalactic Space. (T) P. Goldreich and P. Morrison | 239 | 45, 344 |
| Trajectories of Regge Vacuum Poles. (T) B. V. Geshkenbein and B. L. Ioffe | 240 | 45, 346 |
| Galvanomagnetic Effects in Ferrimagnetics near the Compensation Point V. G. Shavrov and E. A. Turov | 242 | 45, 349 |
| Gamma Rays and Cyclotron Radiation X-Rays of Galactic and Metagalactic Origin. (T) . . V. L. Ginzburg and S. I. Syrovatskii | 245 | 45, 353 |
| Group Velocity in Semiconductors. (T) L. V. Keldysh | 253 | 45, 364 |
| Phase Shifts of Coulomb pp Scattering. (T) N. P. Klepikov | 261 | 45, 376 |

LETTERS TO THE EDITOR

| | | |
|--|-----|---------|
| Mobility of Small-Radius Polarons at Low Temperatures. (T) I. G. Lang and Yu. A. Firsov | 262 | 45, 378 |
| Baryon Momentum Spectrum in Inelastic Collisions between Fast Pions and Nucleons. (T) . . . V. S. Barashenkov, D. I. Blokhintsev, E. K. Mihul, I. Patera, and G. L. Semashko | 263 | 45, 381 |
| Concerning One Reaction with Colliding Electron Beams. (T) V. D. Mikhailov | 265 | 45, 383 |
| Son Leds in a Local Field. (E) V. D. Korepanov, A. I. Chernitsyn, and R. A. Lantov | 266 | 45, 385 |
| The η^0 Meson and the Mass Difference of the K^0 and K^0 Mesons. (T) S. G. Matinyan | 267 | 45, 386 |
| Galvanomagnetic Properties of Beryllium. (E) N. E. Alekseevskii and V. S. Egorov | 268 | 45, 388 |
| Critical Magnetic Fields of Superconducting Beryllium Films. (E) B. G. Lazarev, E. E. Semenenko, and A. I. Sudovtsov | 270 | 45, 391 |
| Elastic Scattering of 3.5-BeV/c π^- Mesons by Protons. (E) M. S. Ainutdinov, S. M. Zombkovskii, A. A. Pletnikov, Ya. M. Selektor, and V. N. Shulyachenko | 271 | 45, 392 |
| Search for Antimatter in Cosmic Rays. (E) N. I. Grigorov, D. A. Zhuravlev, M. A. Kondrat'eva, I. D. Rapoport, and I. A. Savenko | 272 | 45, 394 |
| Dynamic Proton Polarization at 0.5°K. (E) B. S. Neganov, L. B. Parfenov, V. I. Lushchikov, and Yu. V. Taran | 273 | 45, 394 |
| Low Temperatures Obtained with the Aid of the De Haas-Van Alphen Effect. (T) M. Ya. Azbel' | 274 | 45, 396 |

Available From Amer Inst of Phys
Sov Phys - JETP
Vol XVIII, No 1

Soviet Physics TECHNICAL PHYSICS

A Translation of the "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 33, No. 8, pp. 897-1020, August, 1963)

Vol. 8, No. 8, pp. 673-762

February, 1964

CONTENTS

| | PAGE | RUSS. PAGE |
|--|------|---------------|
| Interaction between a Relativistic Neutral Beam of Charged Particles and a Magnetoactive Plasma. <u>V. G. Makhankov</u> (T) | 673 | 897 |
| Acceleration of a Plasma Burst by a Plasma Flux in a Magnetic Field. <u>M. I. Iovnovich</u> (T) | 676 | 901 |
| Electromagnetic Waves in Nonlinear Media with Dispersion. <u>L. A. Ostrovskii</u> (T) | 679 | 908 |
| Dispersive Instability of a Weakly Ionized Inhomogeneous Plasma in a Uniform External Magnetic Field. <u>A. V. Timofeev</u> (T) | 682 | 909 |
| Relativistic Dispersion at Cyclotron Harmonics in a Plasma. <u>V. P. Denisov</u> and <u>D. A. Frank-Kamenetskii</u> (T) | 686 | 915 |
| Plasma Waves in Cyclotron Resonance Region. <u>Yu. N. Dnestrovskii</u> , <u>D. P. Kostomarov</u> , and <u>N. V. Sklyadov</u> (T) | 691 | 922 |
| Reflection and Refraction of Magnetohydrodynamic Waves at the Boundary between Two Anisotropic Plasma Media. <u>Ts. D. Loladze</u> and <u>N. I. Tsintsadze</u> (T) | 695 | 929 |
| Reflection of Electromagnetic Waves from a Plasma. <u>I. A. Albitzer</u> (T) | 699 | 935 |
| Growth in Negative Lichtenberg Figures in the Nanosecond Time Range. <u>V. S. Komel'kov</u> and <u>E. Z. Melikhov</u> (E/T) | 704 | 943 |
| Device for Producing External γ Radiation from a Synchrotron with External Injection. <u>B. S. Shklyar</u> (E) | 706 | 945 |
| Measurement of the Flux of Bremsstrahlung Energy Using a Reference Ionization Chamber. <u>A. P. Komar</u> , <u>S. P. Kruglov</u> , and <u>I. V. Lopatin</u> (E) | 709 | 949 |
| A Case of Motion of a Conducting Liquid in a Plane Channel. <u>K. E. Dehaeghshin</u> (T) | 712 | 954 |
| Structure of the Shock Front Propagating at an Angle to a Magnetic Field in a Low-Density Plasma. <u>V. I. Karpman</u> (T) | 715 | 958 |
| Comparison of Microwave and Probe Methods for Measuring Plasma Density. <u>V. V. Zubov</u> and <u>P. N. Chistyakov</u> (E) | 720 | 967 |
| An Investigation of a Supersonic Jet of Carbon Dioxide as a Target for Charge Transfer of Ions. <u>E. S. Borovik</u> , <u>E. I. Bunol</u> , <u>V. B. Yuzerov</u> , and <u>E. I. Silbenko</u> (E/T) | 724 | 973 |
| Collision of Deformable Bodies and Its Modelling. I. Status and Theory of the Problem. <u>E. F. Vitman</u> and <u>N. A. Zlatin</u> (T/E) | 730 | 982 |
| Collision of Deformable Bodies and Its Modelling. II. The Modelling of the Impact of a Sphere and a Half-Space. <u>I. V. Belyakov</u> , <u>E. F. Vitman</u> , and <u>N. A. Zlatin</u> (E/T) | 736 | 990 |
| Cold Cathode with Ignition in an Electron Gun. <u>A. B. Bolin</u> and <u>F. M. Reikhrudel'</u> (E) | 740 | 996 |
| Diffusion Coefficients of Some Gases Measured by the Optical Method. <u>B. A. Ivakin</u> and <u>P. E. Suetin</u> (E) | 748 | 1007 |
| Localization of a High-Frequency Induction Discharge. <u>M. D. Raizer</u> , <u>A. G. Frank</u> , and <u>N. F. Kitaeva</u> (E) | 752 | 1011 |

Available From Amer. Inst. of Phys.
Sov. Phys. - Tech. Phys.
Vol. VIII, No. 2

AUTHOR INDEX

*This index does not include authors listed in the cover-to-cover table of contents.

| | | | |
|-----------------------|---------|---------------------|-----|
| - A - | | | |
| Abramovich, S. F. | 94 | Avramescu, Aurel | 109 |
| Ad'yanovich, B. P. | 113 | Avramovic, Vera | 88 |
| Afanas'yov, A. | 3 | Azbelev, V. V. | 56 |
| Agekyan, T. | 88 | | |
| Aglintsev, K. K. | 112 | - B - | |
| Akhlibininskiy, B. V. | 131 | Baasanjab, N. | 41 |
| Akhmedov, G. A. | 83 | Bachmann, L. | 79 |
| Akhvledyani, R. N. | 76 | Bachowski, Leon | 19 |
| Albertini, E. | 68 | Bacvanski, S. | 48 |
| Aleksandrov, A. | 55 | Badalyan, G. | 82 |
| Aleksandrov, N. N. | 51 | Bader, W. | 106 |
| Aleksandrov, V. | 10 | Bagdasarova, A. M. | 82 |
| Aleksandrova, A. T. | 99 | Bagolini, B. | 63 |
| Aleksandrova, Ye. N. | 57 | Bagryanskiy, K. V. | 75 |
| Alekseyeva, K. D. | 59 | Bakul, V. N. | 101 |
| Ali-Zado, A. A. | 83 | Balashov, V. V. | 121 |
| Allos, H. | 117 | Baldi, T. | 104 |
| Al-Nabulusi, Ahmad | 31 | Baller, Ernst | 95 |
| Aitukhov, G. V. | 131 | Balschun, H. | 50 |
| Amelinck, S. | 77 | Balzer, I. | 49 |
| Amendola, Giorgio | 27 | Baran, Paul A. | 44 |
| Amiu | 33 | Baraniak, L. | 118 |
| Ando, Shunro | 67 | Baranov, N. | 46 |
| Andreescu, D. | 23 | Baranov, V. I. | 54 |
| Andreyesco, N. | 111 | Barcin, K. | 96 |
| Andreyev, I. A. | 100 | Barer, A. A. | 52 |
| Andriyevsky, R. A. | 99, 100 | Barigozzi, F. | 106 |
| Andronikashvili, E. | 111 | Barking, H. | 104 |
| Anekoji, Yukio | 123 | Barlai, Rudolf | 17 |
| Anikin, A. V. | 132 | Barral, A. H. | 63 |
| Antonescu, G. | 97 | Barsukov, B. Ya. | 101 |
| Antonijevic, Ivan | 87 | Barthe, J. P. | 114 |
| Anuchin, M. A. | 93 | Barthoux, A. | 77 |
| Arai, M. | 69 | Bartnicki, Marian | 18 |
| Ardashnikov, S. N. | 121 | Baruch, P. | 111 |
| Ardeleanu, Aurel | 19 | Bashirov, F. | 47 |
| Arkhipov, A. | 6 | Basic, M. | 72 |
| Arkhipov, A. S. | 75 | Bassi, A. | 120 |
| Arkhipov, V. Ya. | 132 | Batsuh, D. | 34 |
| Arutyunyan, G. | 7 | Baturic, I. | 102 |
| Arzumanyan, G. | 58 | Baturic, J. | 102 |
| Asano | 33 | Bauer, R. G. | 57 |
| Aslikhov, N. P. | 108 | Bauermeister, Armin | 65 |
| Asporger, Z. | 71 | Baumbach, L. | 66 |
| Astapovich, I. S. | 83 | Baumier, J. | 95 |
| Astori, Rocco | 26 | Baxa, J. | 14 |
| Atayev, S. | 10 | Baybakov, N. | 4 |
| Atutov, P. R. | 132 | Baykonurov, O. A. | 132 |
| Auraci, A. | 125 | Beauge, R. | 114 |
| | | Becker, E. | 118 |

| | |
|---------------------------------|----------|
| Caleta, Z. | 49 |
| Cambillard, H. | 124 |
| Camona, G. | 120 |
| Campagnolo, H. | 124 |
| Camra, J. J. | 21 |
| Carabia, Felipe Garcia | 43 |
| Carano, G. | 104 |
| Carp, M. | 97 |
| Castro, R. | 103 |
| Celap, Milenko B. | 80 |
| Cerre, P. | 114 |
| Chabbert, Y. | 65 |
| Chang, Hsi-p'io | 38 |
| Chavmei, H. | 117 |
| Chave, P. | 103 |
| Chefnoix, Ernest-Paul Joseph | 95 |
| Chokotillo, K. A. | 82 |
| Chomala, Marius | 116, 125 |
| Ch'en, Yuan | 41 |
| Ch'en, Yu-hsin | 62 |
| Ch'eng, Hsiao-ho | 38 |
| Cheptsova, M. | 2 |
| Cherkinskiy, S. N. | 54 |
| Chernogorov, I. A. | 57 |
| Chernopokov, N. A. | 110 |
| Chernous'ko, F. L. | 123 |
| Chernoyvan, V. | 3 |
| Cherveniyakov, Emil | 13 |
| Chetallier, G. | 114 |
| Ch'ien, Hsueh-men | 41 |
| Cho'n, T'ae Hwan | 33 |
| Chou, Ch'ang | 33 |
| Chou, En-lai | 44 |
| Chou, Yang | 132 |
| Christynkov, I. | 76 |
| Chuksanova, N. A. | 10 |
| Ciculic, Milinka | 88 |
| Cihal, V. | 94 |
| Ciric, Aleksandar | 87 |
| Ciric, Branislav | 88 |
| Cizek, I. | 73 |
| Claus, D. | 57 |
| Cobic, T. | 46 |
| Cocure, M. | 117 |
| Cohendy, G. | 114 |
| Colic, D. | 48 |
| Colin, J. | 103 |
| Colombo, G. | 68 |
| Cordan, Wolfgang | 133 |
| Cordier, H. | 125 |
| Cornell, Anthony | 116 |
| Costea, Ion | 23 |
| Coulaud, J. | 77 |

| | |
|-----------------|-----|
| Cramer, F. | 119 |
| Cremor, E. | 79 |
| Curie, Marie | 29 |
| Curillon, R. | 117 |
| Czander, Jozsef | 18 |

- D -

| | |
|--|-----|
| Dabala, G. | 106 |
| Damagnez, J. | 110 |
| Dandin, D. | 40 |
| Dang, Phu | 37 |
| Danikova, A. | 87 |
| Dautbasic, Ismet | 20 |
| Davydov, G. | 7 |
| de Azevedo, Oswaldo Benjamin | 43 |
| De Barbieri, A. | 68 |
| Deboutville, C. D. | 64 |
| Dedic, Ljebomir | 88 |
| de Gregorio, Giuseppe | 107 |
| Dekaris, M. | 72 |
| De Klerk, D. | 124 |
| de la Fuente, Jose Renato Iturriaga | 120 |
| Delaunay, B. N. | 122 |
| Delcour, Roland | 21 |
| Della Corte, F. | 68 |
| Della Volpe, R. | 68 |
| Demin, A. | 49 |
| Demirkhanov, R. A. | 89 |
| Demikhovskaya, E. M. | 82 |
| Don Hartog, H. W. | 78 |
| Denis, Eugene | 95 |
| Denisov, V. | 45 |
| Denisov, V. G. | 45 |
| Dorgunov, E. P. | 100 |
| De Ruitter, E. | 15 |
| Dionstbier, Z. | 56 |
| DiGiacomo, A. | 64 |
| Di Maio, G. | 79 |
| Dimitrov, Atanas | 47 |
| Dinulescu, Florica | 24 |
| Dizdar, Zdenko | 113 |
| Djawoto, | 41 |
| Djodan, Sime | 20 |
| Djurkovic, B. B. | 80 |
| Djuro | 80 |
| Dmitriyev, L. M. | 102 |
| Dmitriyev, A. A. | 85 |
| Dmitriyeva, L. | 59 |
| Do, Hanh | 37 |
| Doan, Trong Truyen | 36 |
| Dobatkin, V. I. | 99 |

| | |
|---------------------|--------|
| Dolojsi, M. | 62 |
| Dolkart, M. | 2 |
| Dol'nikov, N. A. | 58 |
| Donets, E. D. | 110 |
| Doronin, Yu. P. | 85 |
| Doroshkovich, A. M. | 132 |
| Doubek, B. | 62 |
| Douis, Michel | 114 |
| Dragoni, G. | 68 |
| Dragos, Z. | 91 |
| Draker, J. | 129 |
| Draskovic, Bosko | 80 |
| Drazancic, A. | 72 |
| Drenkhahn, H. | 16 |
| Drovenik, M. | 87 |
| Drozdov, N. S. | 77 |
| Drozenko, V. | 107 |
| Dudarev, Ye. F. | 100 |
| Dudssus, A. | 16 |
| Ducabgen, G. D. | 129 |
| Dugosevic, Jovan | 14 |
| Dukachev, M. P. | 11 |
| Dumanovic, Dragica | 80 |
| Dumans'kyy, Yu. D. | 74 |
| Dumitrascu, M. | 19 |
| Dumitrescu, Ion | 22 |
| Duong, Hong Hien | 36 |
| Durrigl, T. | 70, 71 |
| Dyval, G. | 116 |
| Dyverger, Maurice | 26 |
| D'yachonko, Vit. | 9 |
| Dyskin, V. P. | 57 |
| Dzandan, S. | 34 |
| Dzhikidze, E. K. | 60 |

- E -

| | |
|-------------------|-----|
| Eael'yanova, O. . | 60 |
| Enev, Mikhail | 13 |
| Enzmann, Manfred | 16 |
| Epshtein, Ya. V. | 75 |
| Ergashev, S. | 2 |
| Eriker, Fritz | 22 |
| Erokhin, G. S. | 101 |
| Ewald, H. | 96 |
| Eymann, C. | 104 |
| Eysmont, H. | 7 |

- F -

| | |
|------------------------|-----|
| Facchini, U. | 117 |
| Fadduyov, L. D. | 108 |
| Fahrenheitz, Siegfried | 97 |
| Falisevac, J. | 71 |

| | |
|------------------------|---------|
| Fan, Mu-han | 32 |
| Fautrel, M. | 63 |
| Favorski, A. E. | 101 |
| Faynboyn, I. B. | 45 |
| Fedorchonko, I. M. | 99, 100 |
| Fedorov, A. F. | 59 |
| Fedotov, K. | 6 |
| Fedotov, S. A. | 82 |
| Fedotov, Ya. | 89 |
| Fedotova, Yu. M. | 60 |
| Fedynskiy, V. V. | 83 |
| Feklisov, G. I. | 112 |
| Feldmann, V. | 95 |
| Felitsyn, V. | 1 |
| Fernandez, N. | 117 |
| Fetisov, V. N. | 121 |
| Filippov, G. A. | 93 |
| Finkel'shteyn, Yu. Yu. | 108 |
| Finogonov, Ya. I. | 89 |
| Fischer, M. | 119 |
| Fistul', V. I. | 89 |
| Flerov, B. | 53 |
| Fleysman, B. S. | 89 |
| Flit, Liya Abramovna | 81 |
| Florescu, Mihail | 20 |
| Fontaine, Andre | 43 |
| Forlady, E. E. | 83 |
| Frankin, G. H. | 110 |
| Frank, G. | 104 |
| Franyuk, V. A. | 100 |
| Franz, J. M. | 66 |
| Franz, P. | 78 |
| Frenkel', Yu. I. | 121 |
| Fridman, Ya. B. | 99 |
| Friedmann, Hugo | 117 |
| Fritzsche, Hartmut | 119 |
| Frol'kis, V. V. | 50 |
| Frolov, N. | 10 |
| Fumagalli, E. | 119 |
| Fujii, Hiroshi | 33 |
| Fukuda, T. | 69 |
| Fursov, N. D. | 1 |
| Furusato, Kazuo | 70 |

- G -

| | |
|------------------|-----|
| Gabovich, V. | 47 |
| Gabriolyants, G. | 6 |
| Galeane, Eduardo | 44 |
| Galemin, I. M. | 93 |
| Galenko, P. P. | 100 |
| Gall, L. A. | 86 |
| Galle | 1 |
| Gaimicho, P. | 117 |

| | |
|---------------------|----------|
| Ilavnicka, J. | 14 |
| Hoang, Manh Tuan | 37 |
| Hoffmann, G. | 57, 67 |
| Hoffmann, H. | 104 |
| Hoffmann, Josef | 79 |
| Hofmann, H. | 57, 67 |
| Homberg, Nils | 28 |
| Hong, Chuong | 40 |
| Horhol, D. | 42 |
| Hormann, Hans | 66 |
| Horsky, Jiri | 22 |
| Horstmann, D. | 96 |
| Horvat, Branko | 13 |
| Hosek, Jaroslav | 14 |
| Hot, M. | 115, 124 |
| Hotta, Hidoyuki | 33 |
| Housseau, N. | 115, 124 |
| Hrabar, A. | 72 |
| Hrustnik, Joze | 102 |
| Hsia, Kuang-ch'uan | 33 |
| Hsieh, Hsiang-huang | 38 |
| Huang, Liang | 62 |
| Hucera, Petar | 23 |
| Hug, O. | 118, 127 |
| Hundertmark, A. | 86 |
| Huu, Duc | 37 |

- I -

| | |
|-------------------|-----|
| Iandelli, Aldo | 107 |
| Irim, Alfons | 91 |
| Il'gumov, M. I. | 93 |
| Ilic, Milan | 87 |
| Imai, A. | 68 |
| Imazato | 33 |
| Ingrao, Pietro | 27 |
| Ioan, Constantin | |
| Sabin | 46 |
| Ionescu, Nicolae | 19 |
| Iraci, Leone | 27 |
| Ishikawa, Shigeru | 48 |
| Ivanov, Il. | 23 |
| Ivanov, V. I. | 110 |
| Ivanova, L. G. | 60 |
| Ivantsov, G. I. | 93 |
| Ivlev, V. S. | 51 |
| Iwanski, W. | 22 |
| Izmaylov, N. A. | 130 |

- J -

| | |
|--------------------|-----|
| Jacob, F. | 50 |
| Jagodzinski, Heinz | 126 |
| Jand, B. | 39 |

| | |
|--------------------------|-----|
| Jan'yan, B. | 54 |
| Jancikovic, M. | 132 |
| Janjic, J. | 80 |
| Jastrzebski, Bronislaw | 18 |
| Jeanlin, Cosar-Marc-Jean | 95 |
| Jedrychowski, Stefan | 19 |
| Jelicic, M. | 24 |
| Jelinovic, Zvonimir | 13 |
| Jen, Hua | 38 |
| Jensen, Adolf E. | 24 |
| Joffre, H. | 115 |
| Joly, F. | 64 |
| Jordan, H. | 128 |
| Jovanovic, Milena | 80 |
| Jurola, D. | 71 |
| Juzbasic, D. | 72 |

- K -

| | |
|-----------------------|-----|
| Kachi, S. | 107 |
| Kacic, P. | 72 |
| Kadyshev, S. | 6 |
| Kagan, I. I. | 55 |
| Kagan, Yu. S. | 51 |
| Kalkhanda, H. | 120 |
| Kaiser, Joseph | 126 |
| Kaisha, Kabushiki | 79 |
| Kalinin, A. | 11 |
| Kalinin, O. M. | 51 |
| Kalinko, M. K. | 93 |
| Kalini, I. | 71 |
| Kalynda, T. V. | 54 |
| Kalyuzhnyy, L. V. | 61 |
| Kamay, G. Kh. | 12 |
| Kaminishi, Tokishi | 120 |
| Kanaroykin, B. A. | 83 |
| Kaneko, Mitsuhiro | 39 |
| Kanno, I. | 107 |
| Kapitsa, P. L. | 122 |
| Kaplun | 1 |
| Kamlunovskiy, G. A. | 99 |
| Karandayeva, V. P. | 59 |
| Karatayev, G. I. | 83 |
| Karavayev, M. M. | 112 |
| Kariya, Teiji | 33 |
| Karpenko, A. S. | 52 |
| Kastrikin, N. F. | 52 |
| Kas'yan, I. I. | 55 |
| Kas'yanenko, V. G. | 12 |
| Kayrov, I. A. | 132 |
| Kayser, Fritz-Hermann | 79 |
| Kazakov, P. | 2 |
| Kazarinov, Yu. M. | 123 |
| Kebeljic, Nada | 23 |

| | | | |
|--------------------------------|----------|----------------------------|--------|
| Kohrer, H. P. | 106 | Koster, Werner | 106 |
| Koiter, P. | 67 | Kostrova, E. I. | 46 |
| Koiter, Friedrich | 66 | Kostyukova | 101 |
| Kellner, A. | 118, 127 | Kosutic, Z. | 70, 71 |
| Kemnitz, Yu. V. | 112 | Kotlor, Yair | 31 |
| Korjean, J. | 102 | Kots, Ya. M. | 50 |
| Kern, Raymond | 103 | Koucky, Vladimir | 21 |
| Kharkevich, A. A. | 121 | Kovacic, Bozo | 22 |
| Khimushin, Fedor Fedorovich | 99 | Kovacs, Tamás | 18 |
| Kholer, Karl | 91 | Koval, A. | 47 |
| Khol'nova, E. A. | 112 | Kovalenko, P. P. | 58 |
| Kholodov, Yu. A. | 122 | Koval'skiy, V. V. | 54 |
| Khrulenko, M. I. | 131 | Kovesi, János | 17 |
| Khrustov, Todor | 13 | Kozlov, L. V. | 122 |
| Khrushchov, Vilifies | 21 | Kozlov, V. M. | 99 |
| Khudyakov, V. N. | 76 | Kozlovskiy, L. I. | 92 |
| Kiktenko, V. S. | 54 | Kozul, V. | 72 |
| Kim, Tu-sua | 34 | Kramer, J. | 129 |
| Kirhanjer, V. | 72 | Kramer, O. | 96 |
| Kirikov, G. | 6 | Krasnovskiy, A. A. | 53 |
| Kirillov, I. P. | 112 | Kreitan, V. G. | 92 |
| Kiryakov, K. | 75 | Kriogel, Manfred | 15 |
| Kiselev, A. V. | 77 | Krisilov, A. D. | 131 |
| Kiselev, V. S. | 123 | Krivak, F. | 62 |
| Kiss, G. | 67 | Kronois, M. | 106 |
| Klapp, E. | 66 | Kronenberg, M. | 106 |
| Klaus, E. J. | 65 | Kroning | 77 |
| Klsoovskaya, E. | 85 | Kruger, A. | 86 |
| Klushin, I. G. | 85 | Krystanov, L. | 84 |
| Klyacharova, O. A. | 61 | Krzheminskiy, S. A. | 8 |
| Klyuyev, M. M. | 101 | Krzhizhanovskiy, G. M. | 92 |
| Knezevic, Bogic | 98 | Kucharski, M. | 105 |
| Knaifer, H. | 96 | Kudolina, R. I. | 60 |
| Knulle, W. | 66 | Kudryavtsev, S. I. | 54 |
| Kodor, Frigyes | 17 | Kuehne, Harald Dietrich | 15 |
| Koechlin, Yves | 114 | Kuhn, R. | 78 |
| Kogan, M. N. | 123 | Kuk'tin, V. A. | 12 |
| Kohler-Kubolka, N. | 71 | Kukkonen, E. Ya. | 99 |
| Kohlhass, Rudolf | 126 | Kulagin, S. M. | 60 |
| Komarov, V. L. | 52 | Kulcar, Z. | 71, 72 |
| Komarovskiy, A. N. | 111 | Kulish, E. L. | 110 |
| Komori, Saburo | 107 | Kumel'sky, L. | 2 |
| Kondurar', V. T. | 82 | Kunin, Petko | 13 |
| Konovalov, P. H. | 58 | Kurisu, K. | 120 |
| Kopajtic, B. | 72 | Kursanov, Yu. V. | 89 |
| Kopanev, I. D. | 85 | Kusano, K. | 69 |
| Kopanev, V. I. | 55, 131 | Kaz'michov, Yu. S. | 121 |
| Korac, Milorad | 13 | Kuz'min, G. S. | 75 |
| Korica, B. | 49 | Kuz'mina, V. V. | 92 |
| Korotich, V. I. | 122 | Kuznetsov, S. G. | 75 |
| Kosanovic, R. | 80 | Kuznetsov, S. I. | 50 |
| Kosmin, N. P. | 16 | Kuznetsov, V. P. | 82 |
| Kostarev | 85 | Kuznetsev, V. V. | 57 |

- L -

| | | | |
|-----------------------|-----------------------|-------------------|--------|
| Labusca, E. | 111 | Lohs, Karlheinz | 78 |
| Lacombe, P. | 126 | Lomajko, S. | 49, 73 |
| Lacombe, Paul | 115 | Lomonos, P. I. | 56 |
| Lagidze, R. M. | 76 | Lopatin, R. N. | 45 |
| Lamborion, J. | 115 | Loranskiy, D. N. | 54 |
| Landau, A. I. | 100 | Lorenz, G. | 66 |
| Landau, L. | 128 | Lubich, Ruth | 32 |
| Lange, Karl Friedrich | 78 | Luder, W. | 91 |
| Lange, Heinrich | 126 | Lukashov, V. H. | 59 |
| Lange, O. | 65 | Lupakov, I. S. | 121 |
| Langhoff, J. | 96 | Luu, Dong | 36 |
| Lapin, Yu. Ye. | 59 | L'vovich, A. I. | 83 |
| Lauck, August | 96 | Lyakhovich, V. P. | 59 |
| Le, Dinh Quy | 36 | Lvkova, L. | 11 |
| Le, Du | 36 | Lyubchenko, I. S. | 108 |
| Le, Duc Binh | 35 | Lyubinov, Ya. I. | 9 |
| Le, Tat Dac | 40 | | |
| Le, Van Co | 38 | | |
| Le Bail, H. | 124 | | |
| Lebedeva, V. V. | 54 | | |
| Le Berre, E. | 109, 114, 115, 121 | | |
| Leclercq, S. | 63 | | |
| Lednev, V. S. | 131 | | |
| Lee, Vigleik | 28 | | |
| Le Magnen, J. | 64 | | |
| Leone, A. | 126 | | |
| Lensi, P. L. | 106 | | |
| Lenzi, Michel | 115 | | |
| Leonhard, Wolfgang | 50 | | |
| Leont'yov, A. I. | 61 | | |
| Leskovar, Silvín | 109 | | |
| Lovina, T. A. | 60 | | |
| Levykin, N. N. | 47 | | |
| Li, Chong-wu | 123 | | |
| Li, Shou-k'ang | 32 | | |
| Li, Te-p'ei | 123 | | |
| Lieberman, S. S. | 76 | | |
| Lindner, R. | 78 | | |
| Linhardt, F. | 127 | | |
| Linko, L. | 16 | | |
| Lions, N. | 95 | | |
| Lippert, E. | 91 | | |
| Litvinoff, Boris | 39 | | |
| Liu, Hu-ping | 38 | | |
| Liu, Su-ping | 41 | | |
| Livenson, A. R. | 55 | | |
| Llinas, Rene | 43 | | |
| Lobachevskiy, N. I. | 108 | | |
| Loffler | 66 | | |
| Loher, H. | 65 | | |
| Lohmann, A. | 128 | | |

- N -

| | |
|---------------------|---------|
| Nadasan, Stefan | 132 |
| Nadin, V. | 11 |
| Naginskiy, I. N. | 9 |
| Natta, Alessandro | 27 |
| Naudot, R. | 116 |
| Navakatikyan, A. O. | 54 |
| Nedoma, K. | 62 |
| Negoita, I. | 11 |
| Novarij, J. | 14 |
| Neyman, M. B. | 112 |
| Nghiem, Xuan Yom | 34 |
| Nguyen, Chinh | 36 |
| Nguyen, Dan | 34, 37 |
| Nguyen, Huu To | 35 |
| Nguyen, Tho | 35 |
| Nguyen, Si Que | 37 |
| Nguyen, Sinh | 36 |
| Nguyen, Viot Thuan | 35 |
| Nguyen, Xuan Tuan | 35 |
| Nijima, Atsuyoshi | 39 |
| Nikitin, D. G. | 1 |
| Nikolayev, A. | 3 |
| Nikol'skiy, A. M. | 49 |
| Nikol'skiy, G. V. | 59 |
| Nishikawa, A. | 107 |
| Nisida, Masataka | 129 |
| Noraman, G. L. | 112 |
| Norobsambuu, S. | 39 |
| Novakovic, Rodoljub | 88 |
| Novikov, G. I. | 77, 113 |
| Novomoyskiy, A. S. | 59 |
| Nykaenen, Arvo | 94 |

- O -

| | |
|-----------------------|-----|
| O Tung Ok | 34 |
| Oba, H. | 107 |
| Ochavkovskiy, Yu. Ye. | 84 |
| Ocokoljic, S. | 48 |
| Oden, S. | 65 |
| Ogawa, Takuji | 86 |
| Okhotin, A. | 44 |
| Oldrich | 14 |
| Olsuf'yev, N. G. | 61 |
| Onel'yanovskiy, E. M. | 89 |
| Ono, K. | 86 |
| Oostens, J. | 95 |
| Oprea, Gh. | 20 |
| Opreacu, N. C. | 11 |
| Orlov, Yu. F. | 121 |
| Ormandy, A. | 63 |
| Ormont, B. F. | 112 |

| | |
|----------------------|-----|
| Orosz, Laszlo | 18 |
| Orzhekhovskiy, V. L. | 101 |
| Osada, Yu. Ye. | 8 |
| Osche, Gunter | 67 |
| Osipov, Yu. A. | 54 |
| Otol, I. | 70 |
| Ozerov, V. | 11 |

- P -

| | |
|-----------------------|--------|
| Palige, Ya. | 100 |
| Palinkasevic, Smiljka | 88 |
| Palitsyn, N. D. | 81 |
| Palotas, Zoltan | 17 |
| Pampuch, R. | 102 |
| Panin, V. V. | 101 |
| Panin, V. Ye. | 100 |
| Pannikov, V. | 5 |
| Pantucek, Antonin | 90 |
| Papacosten, C. | 48 |
| Paparigopulo, S. V. | 8 |
| Parin, V. | 45 |
| Pariyskiy, V. B. | 100 |
| Parlow, Alroa | 17 |
| Pascal, Jacques | 115 |
| Pasic, Milena | 87 |
| Pasini, M. | 71 |
| Pastor, Tibor | 80 |
| Patrusev, V. I. | 59 |
| Paukin, A. | 1 |
| Pavko, D. | 102 |
| Pavlov, I. M. | 101 |
| Pavlovskiy, E. N. | 51 |
| Pavolina, Luca | 27 |
| Pecchioli, Ugo | 28 |
| Penev, Todor | 47 |
| Pepin, P. | 115 |
| Perapechey, L. D. | 58 |
| Persic, N. | 70, 71 |
| Persits, G. | 5 |
| Peruglia, Marco | 97 |
| Peters, W. | 96 |
| Petev, Mikhail | 13 |
| Petkov, Al. | 86 |
| Petkovsek, V. | 73 |
| Petrich, Grote | 78 |
| Petrov, I. I. | 10 |
| Petrova, J. | 62 |
| Petrovykh, I. M. | 101 |
| Petzow, Gunter | 106 |
| Pfister, J. C. | 111 |
| Pham, Van Dong | 42 |
| Phan, Khue | 35 |
| Pichat, L. | 114 |

| | | | |
|------------------------|-----|---------------------------|-----|
| Samsonovich, L. G. | 60 | Shekhter, M. S. | 131 |
| Sandor, V. | 15 | Shemet, A. | 3 |
| Sanguinette, Alexandro | 26 | Shevchenko, K. N. | 108 |
| Sannier, J. | 125 | Shoynfinkel', V. M. | 56 |
| Sanz, Adolfo Montalvo | 91 | Shih, Ching-hsing | 32 |
| Saracovic, Serif | 13 | Shilov, M. N. | 53 |
| Saric, S. | 72 | Shinov, Khristo Dimitrov | 90 |
| Sarti, Tino | 97 | Shipetin, L. I. | 92 |
| Sato, Toru | 129 | Shirokov, S. I. | 111 |
| Satpayev, K. I. | 132 | Shkorupoyev, I. | 8 |
| Satybaldin, N. | 2 | Shkurko, S. | 7 |
| Saushkin, Yu. G. | 1 | Shneyerov, B. Ye. | 82 |
| Sauteron, J. | 95 | Shubenko-Shubin, L. | 2 |
| Savel'yev, M. | 4 | Shugaylo, V. T. | 60 |
| Savel'yev, V. | 2 | Shula, Mustafa | 21 |
| Savitskiy, E. M. | 100 | Shuleykin, V. V. | 100 |
| Sevola, M. E. | 68 | Shvedov, V. P. | 111 |
| Sch, H. G. | 25 | Shvets, M. Ye. | 82 |
| Schaefer, Karl-Heinz | 15 | Sibantev, A. N. | 112 |
| Schatz, A. | 106 | Sicherl, B. | 102 |
| Schiller, P. | 79 | Sidorov, N. A. | 8 |
| Schmalzried, Hermann | 119 | Sidorov, Yu. | 3 |
| Schmidt, Holmut | 22 | Siegfried, W. | 126 |
| Schoppmeyer, W. | 16 | Siering, R. | 117 |
| Schrotter | 15 | Silayov, N. | 4 |
| Schroeder, H. J. | 118 | Simakov, Kh. | 4 |
| Schroter, W. | 16 | Simonovich, N. | 3 |
| Schubart, G. | 98 | Sinay, S. S. | 76 |
| Schubert, H. | 128 | Sinitsyna, F. F. | 50 |
| Schule, Wolfgang | 106 | Sipos, Bela | 17 |
| Schulze, D. | 133 | Sisakyan, N. | 47 |
| Schwab, B. | 125 | Skanavi, M. D. | 75 |
| Schwarz, L. | 115 | Skorik, N. S. | 101 |
| Schwarze, O. | 66 | Skrabalo, Z. | 73 |
| Schwoiger, F. | 118 | Slastonko, Ye. | 5 |
| Sodlar, Ladislav | 102 | Sloptsov-Shevelich, R. A. | 85 |
| Sodletskiy, V. | 6 | Slot, W. J. Bruins | 62 |
| Seeger, A. | 117 | Smokal, A. | 105 |
| Seldol, H. | 119 | Smirnova, V. I. | 112 |
| Seiichi, Ishida | 39 | Sobol, D. | 6 |
| Semenikhin, G. | 2 | Sobotka, L. | 15 |
| Semenov, A. S. | 85 | Sobotovich, E. V. | 122 |
| Senander, Knut | 28 | Sokolov, N. N. | 92 |
| Soptier, Albert | 90 | Sokolov, O. V. | 11 |
| Shamakhaudov, A. | 56 | Sokolova, Ye. | 6 |
| Shantyr', V. I. | 50 | Solecki, Roman | 129 |
| Shapiro, D. | 47 | Solomentsev, M. | 6 |
| Shapiro, F. L. | 113 | Selovye, A. | 47 |
| Shapiro, L. S. | 7 | Solov'yev, L. D. | 110 |
| Shaqiri, Reis | 21 | Solov'yeva, E. I. | 46 |
| Shashkov, A. G. | 89 | Suminskiy, V. | 2 |
| Shchegolev, V. A. | 110 | Sommerfeld, A. | 91 |
| Shchepot'yev, A. I. | 5 | Somogyi, Robert | 17 |
| Shchopet'yev, A. N. | 5 | Somville, Charles | 98 |
| Shchetinin, S. | 47 | Sotiroscu, N. | 70 |

| | | | |
|----------------------|--------|---------------------|--------|
| Soulairac, A. | 64 | Teroshchenko, M. | 107 |
| Soulairac, M. L. | 64 | Tereshchenko, N. | 7 |
| Spaepen, G. | 116 | Tersh, G. | 8 |
| Spaeth, W. | 127 | Tesic, M. | 49 |
| Spasov, H. | 87 | Thach, Son | 36, 42 |
| Spoidel, R. | 79 | Thai, Nghia | 37 |
| Spener, G. | 127 | Theix, M. | 79 |
| Spevak, Antonin | 77 | Thien, Ly | 35 |
| Spiro, Gideon | 32 | Thurrow, Bruno | 15 |
| Spoljar, M. | 71, 72 | Tibon, Haim | 31 |
| Spurek, J. | 14 | Tito | 21 |
| Staiger, F. | 96 | Titov, G. | 45 |
| Stamm, H. H. | 118 | TIusty, V. | 62 |
| Stehle, Hansjakob | 43 | To, Thien | 40 |
| Stepanyan, Ye. P. | 53 | Togliatti, Palmiro | 27 |
| Stepchkov, K. A. | 46 | Tokunaga, Shigeo | 33 |
| Stern, H. | 22 | Tolpygo, K. B. | 122 |
| Stipetic, Vladimir | 20 | Tolstikov, V. | 4 |
| Stockholm, H. F. | 65 | Tomic, Lj. | 49 |
| Stoiljkovic, C. | 70 | Ton, Quang Phiet | 40 |
| Strizhevskiy, M. F. | 8 | Topolcan, O. | 62 |
| Strobl, G. | 66 | Torroella, Gustavo | 44 |
| Strunz, Hugo | 105 | Toshio | 33 |
| Stratsovskaya, S. V. | 56 | Toumanoff, C. | 64 |
| Stukova, I. M. | 56 | Toyomizu, Masemichi | 69 |
| Styazhkina, A. A. | 54 | Tran, Dang Van | 35 |
| Su, Lien | 33 | Tran, Doua | 37 |
| Sucoveanu, Gh. | 97 | Tran, Quy | 37 |
| Sudnov, A. M. | 56 | Trbojevic, Bogdan | 96 |
| Sugimoto, Riko | | Trefilov, V. N. | 75 |
| Toshitaka | 69 | Tricot, R. | 103 |
| Sugimoto, Y. | 86 | Truc, Thanh | 37 |
| Sundhoff, Dieter | 126 | Truong, Thi | 42 |
| Svalbe, V. | 72 | Tsemakovich, B. | 94 |
| Svochnikova, N. V. | 50 | Tsenov, Angel | 47 |
| - T - | | Tenterova, L. G. | 54 |
| Tahara, J. | 86 | Tserenjab, D. | 39 |
| Tank, Raghav | 106 | Tactlin, M. L. | 111 |
| Taran, V. A. | 108 | Tsujii, Yasushige | 69 |
| Taraskevich, G. | 46 | Tsvetkov, V. M. | 113 |
| Tarasov, V. V. | 121 | Tsy-pin, S. G. | 52 |
| Tardella, P. A. | 79 | Tu'meh, George | 31 |
| Tareyko, N. | 107 | Tunakov, A. P. | 93 |
| Tarkhov, A. G. | 82 | Tung, Fu-jeng | 33 |
| Tarusov, B. N. | 51 | Turina, Anto | 13 |
| Taton, Rene | 32 | Turovskiy, V. D. | 99 |
| Tatu, Michel | 10 | Tuyama, Takasi | 69 |
| Taubenheim, J. | 86 | - U - | |
| Teng, Tzu-hui | 41 | Ulicevic, M. | 48 |
| Teofilovski, Codomir | 113 | Urošević-Dacic, D. | 88 |
| Torokhova, V. F. | 100 | Ustimenko, I. | 6 |
| Terekhova, V. T. | 101 | | |
| Torent'yov, P. V. | 51 | | |

- V -

| | |
|-----------------------|--------|
| Vainshteyn, B. K. | 76 |
| Vajda, Irma | 18 |
| Vajgand, Vilim | 80 |
| Vaksberg, Arkadiy | 11 |
| Valarde, Jean | 114 |
| Valyashko, E. G. | 122 |
| Van.Ngoc | 35 |
| Van Der Gaag, H. | 66 |
| van Krevelen, D. W. | 78 |
| van Zyrk, R. | 91 |
| Varsanyi, Ivan | 17 |
| Vasilescu, V. | 79 |
| Vasilev, Kiril | 21 |
| Vasilevich, V. | 57 |
| Vasil'yev, I. M. | 49 |
| Vasil'yev, L. G. | 94 |
| Vasseur, A. | 125 |
| Vayner, Ye. L. | 55 |
| Vaysman, D. | 1 |
| Vecera, Miroslav | 77 |
| Vel'dre, S. R. | 51 |
| Venger, L. A. | 53 |
| Vermeil, C. | 125 |
| Veselinovic, Miroslav | 87 |
| Vidojevic, Nada | 81 |
| Vik, Sven | 29 |
| Vimcux, J. | 64 |
| Vinberg, G. G. | 61 |
| Vinitskiy, A. S. | 89 |
| Vinogradov, K. A. | 84 |
| Vinogradova, Ye. A. | 84 |
| Vishnevskiy, A. A. | 53 |
| Vizer, A. | 4 |
| Vladisavljevic, Z. | 98 |
| Vladoianu, R. | 20 |
| Vlcek, B. | 113 |
| Vodopija, I. | 71, 72 |
| Voityuk, V. M. | 57 |
| Volik, A. G. | 94 |
| Volkov, A. | 76 |
| Volkov, S. | 5 |
| Vol'skiy, I. | 4 |
| Volynkin, Yu. | 45 |
| Vondracek | 62 |
| von Hoerner, S. | 129 |
| Vonica, C. | 19 |
| Vorob'yev, A. A. | 60 |
| Vorob'yeva, V. Ya. | 77 |
| Voronov, P. S. | 85 |
| Vorotnitskaya, N. Ye. | 53 |
| Vorsprach, F. | 118 |
| Vos, A.H.M. | 28 |

| | |
|----------------|-----|
| Votava, Z. | 53 |
| Vu, Quoc Tuan | 35 |
| Vuco, Milan | 14 |
| Vukicic, I. | 48 |
| Vulis, I. L. | 82 |
| Vutov, Petur | 23 |
| Vvedenskiy, A. | 5 |
| Vyalov, G. V. | 110 |

- W -

| | |
|-------------------------|----------|
| Wachsmuth, H. W. | 96 |
| Wagener, K. | 105, 119 |
| Wagner, H. | 117, 129 |
| Wahi, Ph. | 118 |
| Wang, Fang | 41 |
| Wang, Shao-min | 123, 129 |
| Warhanek, Hans | 119 |
| Wartmann, R. | 96 |
| Wehner, G. | 105 |
| Weinhardt, Helmut | 15 |
| Weinstein, Adlobert | 28 |
| Weiss, A. | 78 |
| Weitzmann, Hauptmann J. | 16 |
| Wiebols, W.H.G. | 94 |
| Wieburski, Ryszard | 48 |
| Wijker, H. | 113 |
| Wilkins, M. | 104 |
| Willinger, K. | 105 |
| Wippermann, F. | 127 |
| Wirosubroto, Djadi | 41 |
| Wittwer, H. J. | 105 |
| Wohler, J. | 118 |
| Wolf, D. | 118 |
| Wrage, E. G. | 78 |
| Wurthle, Peter | 127 |
| Wyszomirski, Tadeusz | 18 |

- X -

| | |
|-------------|----|
| Xu, Bing-Ye | 97 |
|-------------|----|

- Y -

| | |
|----------------------|-----|
| Yafayev, P. Kh. | 60 |
| Yamada, Ihei | 70 |
| Yamaguti, Hisanao | 67 |
| Yang, Shih-chieh | 123 |
| Yang, Ta-wen | 41 |
| Yao, Teruhiko | 123 |
| Yegorov, V. V. | 11 |
| Yelyutin, V. | 1 |
| Yemel'yanov, S. v. | 108 |
| Yepifanovskiy, S. G. | 8 |

Yerokhin, Yu. Ye.
Yevlanov, I. G.
Yevstar'yev, G.
Yin, Hung-chang
Yu, Ch'i-pao
Yuan-wen
Yudin, M. I.
Yudin, N.
Yudin, Ye. Ye.
Yuganov, Ye. M.
Yulin, V.
Yunus, M.
Yupko, L. D.
Yurenko, V. Yu.
Yusevich, Yudif
Samoylovna

- 2 -

Zakharenko, I. P.
Zaryankin, A. E.
Zawada, Edward
Zaytsev, V.
Zaytsev, Yu. P.
Zecevic, Miodrag
Zelein, A. V.
Zelinskiy, V. V.
Zemlyanov, M. G.
Zernova, R.
Zharova, T. V.
Zhelyazkov, Lyubomir
Zherebin, V. M.
Zhikharev, K.
Zhiritskiy, Georgiy
Sergeyevich
Zhuds'kiy, O. Z.
Zhukov, P. I.
Zhukov, V. J.
Zhuravlev, V. G.
Zhuravlev, Ye.
Zilova, T. K.
Zivkovic, B.
Zivojinov, J. M.
Ziyadullayev, S. K.
Zizka, Emil
Zonov, A. I.
Zotov, V.
Zuenko, P. G.
Zunjic, V.

UNCLASSIFIED
Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in black ink that reads "Sergio N. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

UNCLASSIFIED



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

| OGA Doc ID | Job Num | Box | Fldr | Doc | Doc ID | Document Title | Pub Date | Pages | Decision | Proc Date |
|------------|-----------|-----|------|-----|--------|--|-----------|-------|----------------------|-----------|
| AD0834364 | 78-03109A | 52 | 1 | 6 | 62 | Consolidated Translation Survey For February 1963 | 2/1/1963 | 232 | Approved For Release | 3/25/2004 |
| AD0402915 | 78-03109A | 52 | 1 | 7 | 63 | Consolidated Translation Survey For March 1963 | 3/1/1963 | 314 | Approved For Release | 3/25/2004 |
| AD0405169 | 78-03109A | 52 | 1 | 8 | 64 | Consolidated Translation Survey For April 1963 | 4/1/1963 | 278 | Approved For Release | 3/25/2004 |
| AD0409473 | 78-03109A | 52 | 1 | 9 | 65 | Consolidated Translation Survey For May 1963 | 5/1/1963 | 358 | Approved For Release | 3/25/2004 |
| AD0413153 | 78-03109A | 53 | 1 | 1 | 66 | Consolidated Translation Survey For June 1963 | 6/1/1963 | 361 | Approved For Release | 3/25/2004 |
| AD0414818 | 78-03109A | 53 | 1 | 2 | 67 | Consolidated Translation Survey For July 1963 | 7/1/1963 | 249 | Approved For Release | 3/25/2004 |
| AD0418328 | 78-03109A | 53 | 1 | 3 | 68 | Consolidated Translation Survey For August 1963 | 8/1/1963 | 324 | Approved For Release | 3/25/2004 |
| AD0834365 | 78-03109A | 53 | 1 | 4 | 69 | Consolidated Translation Survey For September 1963 | 9/1/1963 | 193 | Approved For Release | 3/25/2004 |
| AD0423936 | 78-03109A | 53 | 1 | 5 | 70 | Consolidated Translation Survey For October 1963 | 10/1/1963 | 232 | Approved For Release | 3/25/2004 |
| AD0426736 | 78-03109A | 53 | 1 | 6 | 71 | Consolidated Translation Survey For November 1963 | 11/1/1963 | 298 | Approved For Release | 3/25/2004 |
| AD0428566 | 78-03109A | 53 | 1 | 7 | 72 | Consolidated Translation Survey For December 1963 | 12/1/1963 | 298 | Approved For Release | 3/25/2004 |
| AD0431011 | 78-03109A | 53 | 1 | 8 | 73 | Consolidated Translation Survey For January 1964 | 1/1/1964 | 273 | Approved For Release | 3/25/2004 |
| AD0433215 | 78-03109A | 53 | 1 | 9 | 74 | Consolidated Translation Survey For February 1964 | 2/1/1964 | 200 | Approved For Release | 3/25/2004 |
| AD0437984 | 78-03109A | 54 | 1 | 1 | 75 | Consolidated Translation Survey For March 1964 | 3/1/1964 | 305 | Approved For Release | 3/25/2004 |
| AD0440831 | 78-03109A | 54 | 1 | 2 | 76 | Consolidated Translation Survey For April 1964 | 4/1/1964 | 155 | Approved For Release | 3/25/2004 |
| AD0442174 | 78-03109A | 54 | 1 | 3 | 77 | Consolidated Translation Survey For May 1964 | 5/1/1964 | 249 | Approved For Release | 3/25/2004 |
| AD0443106 | 78-03109A | 54 | 1 | 4 | 78 | Consolidated Translation Survey For June 1964 | 6/1/1964 | 191 | Approved For Release | 3/25/2004 |
| AD0444756 | 78-03109A | 54 | 1 | 5 | 79 | Consolidated Translation Survey For July 1964 | 7/1/1964 | 169 | Approved For Release | 3/25/2004 |
| AD0447557 | 78-03109A | 54 | 1 | 6 | 80 | Consolidated Translation Survey For August 1964 | 8/1/1964 | 153 | Approved For Release | 3/25/2004 |
| AD0450482 | 78-03109A | 54 | 1 | 7 | 81 | Consolidated Translation Survey For September 1964 | 9/1/1964 | 141 | Approved For Release | 3/25/2004 |
| AD0451428 | 78-03109A | 54 | 1 | 8 | 82 | Consolidated Translation Survey For October 1964 | 10/1/1964 | 149 | Approved For Release | 3/25/2004 |
| AD0453181 | 78-03109A | 54 | 1 | 9 | 83 | Consolidated Translation Survey For November 1964 | 11/1/1964 | 157 | Approved For Release | 3/25/2004 |
| AD0455133 | 78-03109A | 54 | 1 | 10 | 84 | Consolidated Translation Survey For December 1964 | 12/1/1964 | 121 | Approved For Release | 3/25/2004 |
| AD0456859 | 78-03109A | 54 | 1 | 11 | 85 | Consolidated Translation Survey For January 1965 | 1/1/1965 | 179 | Approved For Release | 3/25/2004 |
| AD0458780 | 78-03109A | 54 | 1 | 12 | 86 | Consolidated Translation Survey For February 1965 | 2/1/1965 | 161 | Approved For Release | 3/25/2004 |
| AD0461501 | 78-03109A | 55 | 1 | 1 | 87 | Consolidated Translation Survey For March 1965 | 3/1/1965 | 301 | Approved For Release | 3/25/2004 |