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CONSOLIDATED TRANSLATION SURVEY

Number 109

For January 1967

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CONSOLIDATED TRANSLATION SURVEY

FOR JANUARY 1967

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CONSOLIDATED TRANSLATION SURVEY

PREFACE

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

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 of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

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. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

Scientific and technical translations are grouped according to the COSATI subject category list except for military science and ordnance items which are listed under "military" in the appropriate geographic areas.

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(see CFSTI)

ACSI-(see DIA)

AEC - Atomic Energy Commission - (see CFSTI)

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

AGI

American Geological Institute
AGI Translations Office
2101 Constitution Avenue, NW
Washington, D. C. 20000

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL - Applied Physics Laboratory (see Navy)

ATD - Aerospace Technology Divison (see Library
of Congress)

BISI

British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S.W.1, England

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CFSTI

Clearinghouse for Federal Scientific and
Technical Information (Formerly Office of
Technical Services)
Port Royal and Braddock Roads
Springfield, Virginia 22151

CTT

Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

Dept of Interior

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

DIA

Defense Intelligence Agency
Washington, D.C. 20301

FP

The Faraday Press, Incorporated
84 Fifth Avenue
New York, New York 10011

FTD - Foreign Technology Division (see AF)

HB

Henry Bratcher Technical Translations
P.O. Box 157
Altadena, California 91001

HEW - See NIH

IEEE

Institute of Electrical and Electronics Engineers
275 Madison Avenue
New York, New York 10016

ISA

Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

JHU/APL - The Johns Hopkins University/Applied Physics
Laboratory (see Navy)

JPRS

U. S. Department of Commerce
Clearinghouse for Federal Scientific
and Technical Information
Joint Publications Research Service
Building Tempo E,
East Adams Drive, 4th & 6th Streets, SW
Washington, D.C. 20443

Maritime Admin

Maritime Administration
Office Services
GAO, 5th and G Streets, NW
Washington, D.C.

NASA

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

Natl Bu Stand

National Bureau of Standards
ATTN: Dr Henry Birnbaum
Room 314, South Building
Washington, D.C.

Navy

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

NRL - Naval Research Laboratories (see Navy)

NSTIC
Naval Sci and Tech Intell Ctr

Ministry of Defence,
Room 102, Station Square House,
St. Mary Cray, Orpington, Kent.

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

Optical Society of America, Incorporated
33 University Road
Cambridge, Massachusetts 02138

OTS - (see CFSTI)

Patent Office

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New York, New York 10012

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Rand Corporation
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1700 Main Street
Santa Monica, California

RSIC - (see DDC/RSIC)

UCRL

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

USSR

Economic

Sino-Soviet Natural Product Research.
RUSSIAN, bk, July 1966. P 921145866
FTD MER-66-51

Fifty Years of the Moscow Motor Vehicle Plant
imeni I. A. Likhachev, by P. D. Borodin, 7 pp.
RUSSIAN, per, Avtomobil'naya Promyshlennost',
No 9, Sept 1966, pp. 1-2.
JPRS 38512

The Development of Construction of Zil
Motor Vehicles, by A. M. Kriger, 7 pp.
RUSSIAN, per, Avtomobil'naya Promyshlennost',
No. 9, Sept 1966, pp. 9-15.
JPRS 38512

Automobiles of the USSR, Catalog-Handbook,
Trucks and Buses,
RUSSIAN, rpt, Avtomobili SSSR, Katalog-Spravo-
chnik, Avtomobili i Avtobusy, 1963, pp 5-8;
13-30; 39-42; 47-49; & 54-72.
ACSI J-0605
ID 2204044166

Proper Use of Bank Credits Needed for Economic
Stability, 5 pp.
RUSSIAN, np, Bakinskiy Rabochiy, 29 Sept 1966,
p. 2.
JPRS 39088

Soviet Five-Year Plan Includes Provisions for
Cooperation with Developing Countries, by F.
Akhmedov and B. Soskin, 6 pp.
RUSSIAN, np, Bakinskiy Rabochiy, 26 Oct 1966,
pp. 2-3.
JPRS 38975

Economic Analysis Must Be Effective, by A.
Koroyed, 13 pp.
RUSSIAN, per, Bukhgalterskiy Uchet, No. 10,
Oct 1966, pp. 28-36.
JPRS 39004

Statute on Bonus Awards, 19 pp.
RUSSIAN, per, Byulleten', Gosudarstvennyy
Komitet Soveta Ministrov SSSR po Voprosam
Truda i Zarabotnoy Platy, No. 6, pp. 5-18.
JPRS 38982

USSR
Economic (Contd)

The Problems of Developing the Construction
Industry in the New Five-Year Plan, by A.
T. Repenko, 7 pp.
RUSSIAN, per, Byulleten Stroitel'noy Tekhniki,
No 7, 7 Jul 1966, pp. 22-25.
JPRS 38600

Suggestions Concerning Index of Profitability
As a Part of Economic Reform, by Ye. Mitel'man,
16 pp.
RUSSIAN, per, Den'gi i kredit, No. 9, Sept
1966, pp. 10-20.
JPRS 38997

Crediting Nonseasonal Branches of Industry,
by V. Solntsev and G. Kravtsova, 6 pp.
RUSSIAN, per, Den'gi i kredit, No. 9, Sept
1966, pp. 21-24.
JPRS 38997

Proposal for Local Management of Credit at
Enterprises, by A. Kozhevnikov, 6 pp.
RUSSIAN, per, Den'gi i kredit, No. 9, Sept 1966,
pp. 25-29.
JPRS 38997

The New Economic Reform in Soviet Light
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RUSSIAN, per, Den'gi i kredit, No 9, Sept
1966, pp. 47-52.
JPRS 39140

Economics Training Needed for All, by S.
Myznikov, 5 pp.
RUSSIAN, per, Ekonomicheskaya, Sept 1966,
p. 27.
JPRS 39088

Financial and Credit Relations and Ways of
Improving Them, by K. Karpov, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 36,
Sept 1966, p. 12.
JPRS 39146

Soviet Comment on World Poultry Congress and
USSR Poultry Production, by N. Bannikov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 35,
Aug 1966, p. 31.
JPRS 38944

USSR
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Comparative Analysis -- An Effective Means of Mobilization of Reserves, by A. Vershinin, M. Sergeev, Ye. Smirnitkiy and Ye. Makarov, 36 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 36, Sept 1966, pp. 1-16.
JPRS 38511

The Need for More Economic Analysis, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No. 36, Sept 1966, p. 3.
JPRS 38698

Problems of Statistical Reporting Outlined, by A. Butov, L. Volodarskiy, V. Moskovkina, N. Shchadilov, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No. 36, Sept 1966, p. 8.
JPRS 38698

Measures for More Efficient Management of Leningrad Scientific Institutions Urged, by G. Romanov, 8 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 38, Sept 1966, pp. 6-7.
JPRS 39088

Analysis of Metallurgical Enterprises in Gorkovskaya Oblast Reveals Need for Further Specialization and Cooperation, by S. Prokhorov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 38, Sept 1966, p. 8.
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Cost Accounting Necessary to New Planning System, by D. Manzhayev and V. Dvoretakiy, 5 pp.
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JPRS 39088

Rules for Awarding Bonuses Introduced at First Moscow Watch Plant, 8 pp.
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JPRS 38977

Rural Areas Need More Cultural and Service Facilities, by M. Puzin, 5 pp.
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JPRS 39040

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Organization of Scientific-Research Work under the New System of Economic Management, by V. Semenov, 8 pp.
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JPRS 38990

Proposed Means of Raising the Productivity of Rural Builders in Kazakhstan, by M. Il'yin, 6 pp.
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Systematic Planning Basic to Socialist Economy, by V. Yefimov, 16 pp.
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JPRS 39088

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Chemical Development in Tul'skaya Oblast, by O. Chukanov, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No. 40, Oct 1966, p. 4.
JPRS 38908

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RUSSIAN, per, Ekonomicheskaya Gazeta, No. 41, Oct 1966, p. 3.
JPRS 39088

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37 pp.
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Oct 1966, pp. 1-16.
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1966, p. 6.
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by N. Mel'nitskiy, 7 pp.
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No. 5, 1966, pp. 22-26.
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Meleshkin, A. Sidorov, A. Franko and I.
Cherevko, 7 pp.
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and Predictions for Economic Development, by F.
Khilyuk and S. Yampol'skiy, 12 pp.
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Problems of the Economic Reform, by Prof. S.
Yampol'skiy, 12 pp.
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Comparisons of Experience in Economic Affairs
among the Member Countries of the CEMA, by V.
Sergeyev, 14 pp.
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The Five-Day Working Week in Construction,
by A. Ushakov, 8 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, No. 8,
Aug 1966, pp. 3-7.
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Thermal Power Engineering During the New Five-
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RUSSIAN, per, Energetik, No. 8, Aug 1966,
pp. 1-3.
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Distribution of Financial Resources, by I.
Slavnyy, 8 pp.
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Development of Soviet Civil Aviation Planned, by G. Schetohikov, 7 pp.
RUSSIAN, per, Grashdanskaya Aviatsiya, No 10, 1966, pp. 4-5.
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Increase in Air Passenger Traffic Anticipated, by V. Sobolin, 5 pp.
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Urban Development Plans for Moscow, by G. Ustinov, 5 pp.
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JPRS 38997

Meat, Milk, and the Consumer, 5 pp.
RUSSIAN, np, Izvestiya, 22 Sept 1966, p. 4.
JPRS 38567

Scientific-Research Institutes Need Economic Reform, by A. Kochinyan, 5 pp.
RUSSIAN, np, Izvestiya, 14 Oct 1966, p. 3.
JPRS 39088

Problems Facing the Aniline Dye Industry in Fulfilling the Decisions of the 23rd Party Congress, by N. I. Masanov, 11 pp.
RUSSIAN, per, Khimicheskaya Promyshlennost', No. 8, 1966, pp. 1-5.
JPRS 39031

Experience in the Development of Interproduct Sheets in the Chemical Industry, by V. K. Belyakov, Z. S. Minkin, and E. S. Savinskiy, 8 pp.
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Workers of the Chemical and Petroleum Industries Receive Awards, 7 pp.
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JPRS 38681

Cooperation of CEMA Member Countries in the Field of Chemical and Petroleum Machine Building, by G. O. Terzyan, 8 pp.
RUSSIAN, per, Khimicheskoye i Neftyanoye Mashinostroyeniye, No. 9, 1966, pp. 4-7.
JPRS 38681

Concerning Specialization and Prospects for Development of Pump Production in CEMA Member Countries, by Yan Faron, 6 pp.
RUSSIAN, per, Khimicheskoye i Neftyanoye Mashinostroyeniye, No. 9 1966, pp. 8-10.
JPRS 38681

Economics and Production Quality, by Ya. Orlov, 15 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 26-36.
JPRS 38654

The Economic Reform and the Review of Industrial Wholesale Prices, by V. Sitnir, 12 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 37-46.
JPRS 38654

Bank Credit Extended to Kolkhozes for Development by A. Papovyan, 5 pp.
RUSSIAN, per, Kommunist, 1 Oct 1966, p. 2.
JPRS 38978

Economic Relations among the Socialist Countries Are Growing Stronger, by B. Aleksandrov, 7 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 17, Sept 1966, pp. 40-45.
JPRS 38494

Ukrainian Komsomol Plays Large Role in Land Improvement Work, 7 pp.
RUSSIAN, per, Komsomolskoye Znaniya, 5 Jul 1966, pp. 1-2.
JPRS 38999

USSR
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Rapid Progress Urged at New Donetsk Scientific Center, by A. A. Galkin, 5 pp.
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JPRS 38830

State Standardization Plans Require Review, 8 pp.
RUSSIAN, per, Mashinostroitel', No. 9, Sept 1966, pp. 1-2.
JPRS 39004

Supply of Chemicals and Rubber-Technical Products Urgently Needed, by I. Molotkov, 8 pp.
RUSSIAN, per, Material'no Tekhnicheskoye Snabzheniye, No 2, 1966, pp. 6-11.
JPRS 39151

An Important Link in the System of Supply, by Ye. Rubinchik, 15 pp.
RUSSIAN, per, Material'no Tekhnicheskoye Snabzheniye, No. 2, Feb 1966, pp. 27-36.
JPRS 39004

Improving the Work of Supply Organs in Every Possible Way, 15 pp.
RUSSIAN, per, Material'no Tekhnicheskoye Snabzheniye, No. 2, 1966, pp. 37-43.
JPRS 39004

New Aspects in the Work of Ukrainian Procurement Organs, by V. Tychinin, 9 pp.
RUSSIAN, per, Material'no tekhnicheskoye snabzheniye, No. 3, Sept 1966, pp. 1-7.
JPRS 38944

Legal Rules Governing Cooperated Supplies, by L. Rutman, 6 pp.
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JPRS 38944

Development of Efficient Economic Relations, by I. Komarovskiy, 7 pp.
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JPRS 38944

Quality, Assortment, and Economy of Metals, by N. Skolekin, 8 pp.
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JPRS 39110

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Tractor and Agricultural Machine Building in the New Five-Year Plan, by N. N. Tarasov, 6 pp. RUSSIAN, per, Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaystva, No 5, 1966, pp. 2-5. JPRS 38577

A Report on the K-402 and SKG-40 Cranes, by V. I. Polyakov and M. P. Khodov, 7 pp. RUSSIAN, per, Mekhanizatsiya Stroitel'stva, No 7, Jul 1966, pp. 9-11. JPRS 38600

A Series of Gantry Cranes With a Prestressed Crossbeam, by M. R. Dymshits and E. I. Gurevich, 6 pp. RUSSIAN, per, Mekhanizatsiya Stroitel'stva, No 7, Jul 1966, pp. 27-29. JPRS 38600

Organization of Bookkeeping at the Lugansk Locomotive-Building Plant Outlined, by L. Magidey, 9 pp. RUSSIAN, bk, Mekhanizatsiya Ucheta, Otchetnosti i Vychislitel'nykh Rabot, No 3, 1965, pp. 1-9. JPRS 38831

Certain Results from the Cooperation of Member Nations of CEMA in the Area of Agriculture, by S. Bychvarov, 9 pp. RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No. 5, 1966, pp. 5-10. JPRS 38915

Input-Output Table of the Social Product, by Moisey Ruvimovich Eydel'man, 454 pp. RUSSIAN, bk, Meshtoraslevoiy balans obshchestvennogo produkta, 1966, pp. 1-375. JPRS 38634

Program for Expanding and Improving the Soviet Dairy Industry in the New Five-Year Plan, 5 pp. RUSSIAN, per, Molochnaya Promyshlennost', Vol 27, No. 9, Sept 1966, pp. 1-4. JPRS 38928

Dispatcher Control of Fleet and Harbor Traffic Must Be Updated, 6 pp. RUSSIAN, per, Morskoy Flot, No. 9, 1966, pp. 1-2. JPRS 38893

USSR
Economic (Contd)

Moscow Hard Alloys Combine Wins in Socialist Production Competition, by S. Solov'ev, 5 pp. RUSSIAN, np, Moskovskaya Pravda, 27 Aug 1966, p. 2. JPRS 38614

The Meat Industry in the New Five-Year Plan, by S. Antonov, 8 pp. RUSSIAN, per, Myasnaya Industriya SSSR, Vol. 37, No. 4, 1966, pp. 1-5. JPRS 38928

Critical Path Planning and Material-Technical Supply in Construction, 7 pp. RUSSIAN, per, Na Stroykakh Rossii, No. 8, Aug 1966, pp. 20-21. JPRS 38698

Computers Used in Critical Path Planning in Construction, by G. Truzhenikova, 7 pp. RUSSIAN, per, Na Stroykakh Rossii, No. 8, Aug 1966, pp. 18-19. JPRS 38698

Gross Output of Kazakh Industry to Double in Five Years, by I. Omarov, 7 pp. RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No. 8, 1966, pp. 18-21. JPRS 39088

Trained Personnel Urgently Needed in Kazakhstan, by A. Ismukhamedov, 7 pp. RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No. 8, 1966, pp. 35-38. JPRS 39088

Establishing and Using Reference Materials in Research, Design, and Industry, by A. Ostrometskiy, 7 pp. RUSSIAN, monograph, Nekotoryye Voprosy Sozdaniya i Ispol'zovaniya Spravochno-Informatsionnykh Fondov v NII, KB, i na Predpriyatiyakh, 1966, pp. 3-6, 64-66. JPRS 39078

Review of Book on Planning and the Market, by N. Petrakov and K. Gofman, 6 pp. RUSSIAN, per, Novyy Mir, No. 7, July 1966, pp. 264-267. JPRS 39088

Need for Increased Production in Food Industry Cited, by V. Shvarts, 7 pp. RUSSIAN, per, Planovoye khozyaystvo, No 6, Jun 1966, pp. 19-23. JPRS 39140

USSR
Economic (Contd)

Using Secondary Polymers in the National Economy, by I. Rakhlin, 8 pp.
RUSSIAN, per, Planovoye khozyaystvo, No 6, Jun 1966, pp. 24-29.
JPRS 39151

A New System of Planning and of Economic Stimulation, by A. Braylovskiy, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 7, July 1966, pp. 50-55.
JPRS 38914

Introduction of a New System of Planning Should Be Highly Organized, by I. Zenchenko, 9 pp.
RUSSIAN, per, Planovoe Khozyaystvo, No. 8, Aug 1966, pp. 30-36.
JPRS 38718

Profitability and Economic Incentive Funds, by N. Garetovskiy, 10 pp.
RUSSIAN, per, Planovoe Khozyaystvo, No. 8, Aug 1966, pp. 36-43.
JPRS 38718

Autonomous Financing of Divisions and Services of an Enterprise, by I. Simenskiy, 5 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 8, Aug 1966, pp. 53-56.
JPRS 38718

The Gosplan and RSFSR Methods of Implementing the New Five-Year Plan, by M. Glazynov and I. Strel'nikov, 5 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 8, Aug 1966, pp. 92-95.
JPRS 38718

Improvement in the Planning of Capital Investments, by V. Krasovskiy, 12 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 9, Sept 1966, pp. 11-20.
JPRS 39108

Shortcomings in the Present Credit System, by N. Saimov, 13 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 9, Sept 1966, pp. 50-60.
JPRS 39108

The Methodology of Comparing The Levels of Development of Economic Regions, by Sh. Rosenfel'd, 11 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 9, Sept 1966, pp. 71-78.
JPRS 39108

USSR
Economic (Contd)

The Economic Development of the Northern Regions, by T. Sivtsev, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 9, Sept 1966, pp. 78-83.
JPRS 39108

Results of the First Half-Year of the Economic Reform (in the Gosplan USSR), 6 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 9, Sept 1966, pp. 93-95.
JPRS 38511

Problems of Improving Industrial Wholesale Prices, by A. Komin, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 10, Oct 1966, pp. 10-16.
JPRS 39088

A New System of Planning and Economic Stimulation, by G. Budovoy, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 10, Oct 1966, pp. 23-32.
JPRS 39088

A New Statute Concerning Local Planning Commissions, by G. Voskanyan, 6 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No. 10, Oct 1966, pp. 92-94.
JPRS 39088

Cost Accounting in Scientific Research Organizations, by V. Lyapin, 7 pp.
RUSSIAN, per, Planovoye Khozyaystvo, pp. 44-49 No. 11, 1966.
JPRS 39074

Rates and Proportions of Economic Development, by A. Anchishkin and Yu. Yaremenko, 12 pp.
RUSSIAN, per, Politicheskoye Samoobrazovaniye, No. 9, Sept 1966, pp. 29-37.
JPRS 39088

A Theoretical Discussion of Commodity Production under Socialism, by L. Leont'yev, 7 pp.
RUSSIAN, per, Pravda, 31 Aug 1966, pp. 2-3.
JPRS 38698

Anti-Erosion Drive in the Altay Region, by Yu Chernichenko, 6 pp.
RUSSIAN, per, Pravda, 12 Oct 1966, pp. 2-3.
JPRS 38978

USSR
Economic (Contd)

Review of the Status of the Construction of Several Ferrous Metallurgical Facilities, 5 pp.
RUSSIAN, np, Pravda, 21 Oct 1966, p 3.
JPRS 39110

The Revision of Wholesale Prices, by I. Vinyukov, 5 pp.
RUSSIAN, np, Pravda Ukrainy, 13 Sept 1966, p 2.
JPRS 39108

Dissertations of Mechanics Defended at Ukrainian Institutes in 1965, by G. P. Mikitenko, 6 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 2, No 8, 1966, pp. 135-142.
JPRS 38852

Economic Planning Aided by Mathematics, 55 pp.
RUSSIAN, monograph, Primeneniye Matematiki v Ekonomicheskikh Issledovaniyakh, Vol 3, 1965.
JPRS 38999

Raising the Efficiency of Capital in Industry, by O. S. Sitnikov, 8 pp.
RUSSIAN, per, Promyshlennost' July 1966, pp. 1-2.
JPRS 38947

Planning the Level of Profit in Prices in Industrial Production, by A. G. Zav'yalkov, 8 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No. 7, July 1966, pp. 11-13.
JPRS 38947

Studying the Experience of the Work of Enterprises in the New Conditions of the Economy, 5 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No. 7, July 1966, p. 14.
JPRS 38947

Scientific Organisation of Production and Labor at Gomselmash, by L. S. Shurin, 8 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No 7, 1966, pp. 15-16.
JPRS 38771

USSR
Economic (Contd)

Accelerated Tests for Service Life of Automobile Parts and Assemblies, by L. Kh. Gileles, 9 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No 7, 1966, pp. 23-25.
JPRS 38771

Planned Increase in Percentage of Mechanization and Automation at Enterprises of the Belorussian SSR, by O. G. Moyseyenko, 6 pp.
RUSSIAN, per, Promyshlennost' Belorussii, No. 9, 1966, pp. 12-14.
JPRS 38947

Special Attention Must Be Paid to Transporting Agricultural Produce, 5 pp.
RUSSIAN, per, Rechnoy Transport, No. 8, 1966, pp. 1-2.
JPRS 38893

Development of Petroleum Hauls in West Siberia, by B. Morev and V. Ivanenko, 7 pp.
RUSSIAN, per, Rechnoy Transport, No. 8, 1966, pp. 3-4.
JPRS 38893

Problems of the Indigirka River, by A. Treushnikov and V. Strelkov, 5 pp.
RUSSIAN, per, Rechnoy Transport, No. 8, 1966, p. 9.
JPRS 38893

Recent and Future Operations of the Irtysh Steamship Company, by A. Gedgovd and V. Kutsev, 6 pp.
RUSSIAN, per, Rechnoy Transport, No. 8, 1966, pp. 15-16.
JPRS 38893

Direct Bank Financing of Kolkhozes Inaugurated, by F. Chapohikov and V. Khromov, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', 17 Jul 1966, p. 2.
JPRS 38599

Socialist Competition a Creative Force, by I. Mel'nikov, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', 1 Oct 1966, p. 2.
JPRS 38608

USSR
Economic (Contd)

Successful Harvest in Kazakhstan, 6 pp.
RUSSIAN, per, Sel'skoye Khozyaystvo Kazakhstana, Aug 1966, No. 9, pp. 2-3.
JPRS 38978

Land Improvement Problems in Kazakhstan, by V. M. Borovskiy, 7 pp.
RUSSIAN, per, Sel'skoye Khozyaystvo Kazakhstana, No. 9, Aug 1966, pp. 28-31.
JPRS 38978

Raising the Level of Industrialization in Rural Construction, by V. Gushchin, 6 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 6, Jun 1966, pp. 1-2.
JPRS 38600

Problems in the Procurement and Marketing of Fruits and Vegetables, by S. Lityagin, A. Ignashkov and N. Agrafenin, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', 28 Sept 1966, p. 2.
JPRS 38870

Vocational Training of Senior Secondary School Students to be Improved, by the Ministry of Education RSFSR, 7 pp.
RUSSIAN, per, Shkola i Proizvodstvo, No 7, 1966, pp. 3-6.
JPRS 38602

Planning Production and Specialization of Mass Production Clothing Enterprises Using Mathematical Methods and a Computer, by Yu. M. Rosental' and N. L. Sotnikov, 8 pp.
RUSSIAN, per, Shveytnaya Promyshlennost', No 4, Jul-Aug 1966, pp. 6-11.
JPRS 38567

Material Incentives and Increasing the Efficiency of Agricultural Production, by V. Zakladnoy, 11 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No. 5, Aug 1966, pp. 93-100.
JPRS 38608

Stimulating Savings of Material Expenditures, by D. Radina and T. Shatova, 8 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No. 5, Aug 1966, pp. 134-139.
JPRS 38608

USSR
Economic (Contd)

Wholesale Electrification Planned in USSR, by M. Vilenskiy, 6 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 7 Oct 1966, pp. 2-3.
JPRS 38811

Unprecedented Expansion of Soviet Freight and Passenger Traffic is Forecast, by V. Borushko, 8 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 22 Oct 1966, p. 2.
JPRS 39116

Estonian Party Official Complains of Production Loss Due to Study Leave for Worker-Students, by A. Vezikov, 5 pp.
RUSSIAN, per, Sovetskaya Estoniya, 10 Aug 1966, p. 1.
JPRS 38976

Kolkhoz Democracy and Economic Methods of Management, by I. Petukhov, 6 pp.
RUSSIAN, np, Sovetskaya Litva, 7 Sept 1966, pp. 2-3.
JPRS 38552

Economic Relationships Between Industry and Agriculture Must be Improved, by G. Singuar, 6 pp.
RUSSIAN, np, Sovetskaya Moldaviya, 1 Sept 1966, pp. 2-3.
JPRS 39108

Improving the Organization of Trade in Agricultural Products under the New Five-Year Plan, 6 pp.
RUSSIAN, per, Sovetskaya Potrebitel'skaya Kooperatsiya, Vol 10, No. 8, Aug 1966, pp. 5-8.
JPRS 38928

Collective Agreements under the New Soviet Economic Conditions, by I. Kholostov, 5 pp.
RUSSIAN, per, Sovetskiye profsoyuzy, No. 11, pp. 7-9.
JPRS 38982

Some Problems of the Design of a Unified Economic Information System, by A. Ya. Boyarskiy, 10 pp.
RUSSIAN, per, Statistika i Elektronno-Vychislitel'naya Tekhnika v Ekonomike (Sbornik Statey), No. 1, 1966, pp. 3-12.
JPRS 38988

USSR
Economic (Contd)

On the Development of a Design of a Unified Economic Information System, by V.V. Dzhabaridze and D. I. Lansin, 7 pp.
RUSSIAN, per, Statistika i Elektronno-Vychislitel'naya Tekhnika v Ekonomike (Sbornik Statey), No. 1, 1966, pp. 13-19.
JPRS 38988

A New Level in the Production of Ceramic Sanitary-Technical Articles, by V. I. Dobushinskiy, 5 pp.
RUSSIAN, per, Steklo i Keramika, No 7, Jul 1966, pp. 25-28.
JPRS 38600

Development of the Building and Industrial Glass Industry During the Seven-Year Plan (1959-1965), by I. I. Ben', G. N. Ustinova, 9 pp.
RUSSIAN, per, Steklo i Keramika, No 8, Moscow, 1966, pp 1-5.
JPRS 38578

Current Problems in Soviet Urban Development, by N. Kolomiya, 7 pp.
RUSSIAN, per, Stroitel'stvo i arkhitektura, No 5, May 1966, pp. 3-5.
JPRS 38600

Development of Industrial Centers, by A. Khopkhof, 7 pp.
RUSSIAN, per, Stroitel'stvo i Arkhitektura, No. 7, July 1966, pp. 3-4.
JPRS 38504

Seismic-Resistant Building in Tashkent, by P. P. Moskal'tsov, 6 pp.
RUSSIAN, per, Stroitel'stvo i Arkhitektura Uzbekistana, No. 8, Aug 1966, pp. 10-12.
JPRS 38504

Rural Electrification in the New Five-Year Plan, by M. Alyshev, 7 pp.
RUSSIAN, per, Tekhnika v Sel'skom Khozyaystve, No. 8, 1966, pp. 1-3.
JPRS 38811

A Decree to Improve Socialist Competition, 8 pp.
RUSSIAN, np, Trud, 27 September 1966, p. 1.
JPRS 38608

USSR
Economic (Contd)

Specialization and Cooperation Are Vital to the Growth of Production, by S. Rozenblat, 7 pp.
RUSSIAN, np, Turkmenskaya Iskra, 23 Aug 1966, p. 2.
JPRS 38684

Regulations of the All-Union Export Associations "Tekhnasheksport", "Energomasheksport", and "Mashinoeksport", 8 pp.
RUSSIAN, per, Veshnyaya Torgovlya, No. 7, July 1966, pp. 57-61.
JPRS 38494

Economical-Geographical Characteristics of Intraregional Exchange of the Azerbaydzhan SSR, by D. A. Mamedov, 5 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No. 4, July-Aug 1966, pp. 80-85.
JPRS 38947

Autonomous Financing in Agriculture and Statistics, by P. Gushvin, 18 pp.
RUSSIAN, per, Vestnik Statistiki, No 9, 1966, pp. 13-23.
JPRS 39,137

Livestock Production on the Eve of the New Five-Year Plan, by A. Lutsenko, 12 pp.
RUSSIAN, per, Vestnik Statistiki, No. 10, Oct 1966, pp. 3-13.
JPRS 38989

The Results of the Conference on Specialization and Cooperation, by Ye. Georgiyev, 6 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No 7, July 1966, pp. 16-18.
JPRS 38494

International Economic and Technical Agreements, by A. Petrushev, 31 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No. 8, 1966, pp. 3-11.
JPRS 39068

Soviet-Korean Economic Cooperation, by M. Botsin, 9 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No. 8, 1966, pp. 22-23.
JPRS 39068

USSR
Economic (Contd)

British Trade Relations with the USSR, by S. Seward, 5 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, 1966, No 8, pp. 34-35.
JPRS 39068

Present Organization of USSR Foreign Trade, by K. Voronov, 17 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No. 8, 1966, pp. 48-51.
JPRS 39068

Charter of the All-Union Export Import Association "Stankoimport" (B/O "Stankoimport"), 6 pp.
RUSSIAN, per, Vneshnyaya Torgovlya, No. 8, 1966, pp. 61-62.
JPRS 39068

Increasing the Effectiveness of Foreign Trade an Important National Economic Goal, by A. Borisenko, 12 pp.
RUSSIAN, per, Vneshnyaya Torgovlya SSSR v Novoy Pyatiletke, No. 7, 1966, pp. 9-14.
JPRS 38975

Need for Increased Efficiency in the Use of the Machine and Tractor Pool in Agriculture, by V. Grachev, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 7, July 1966, pp. 41-49.
JPRS 38552

The Methodology of the Recording and Distribution of the National Income (A Formulation of the Question, by D. Kondrashev, 13 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 7, July 1966, pp. 50-60.
JPRS 38511

Price Formation and the Comparison of Different Versions of Economic Measures, by A. Lur'ye, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 7, Jul 1966, pp 61-70.
JPRS 39136

Economic Organs for the Management of Kolkhoz Production, by I. Piskunenko, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 7, July 1966, pp. 131-135.
JPRS 38552

USSR
Economic (Contd)

Three Hours At the Center of Scientific Technical and Economic Expertise, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 7, July 1966, pp. 150-152.
JPRS 38511

International Comparisons of Value Indices, by Ya. Kotkovskiy, 13 pp.
RUSSIAN, per, Voprosy Ekonomiki, No. 8, Aug 1966, pp. 80-91.
JPRS 38494

Problems of Scientific Organisation of Socialist Industrial Management, by V. Grigor'yev, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 8, Aug 1966, pp. 148-150.
JPRS 39108

Perfecting the Planning and Management of the National Economies of the European CEMA Countries, by G. Gertsovich, 25 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1966, pp. 97-110.
JPRS 39122

Development of Social Services and Basic Prices Discussed by Council, by L. Sbytova and R. Savranskaya, 5 pp.
RUSSIAN, per, Voprosy ekonomiki, No 9, Sept 1966, pp. 150-152.
JPRS 39140

Recent Performance of the Volga United Steamship Company, by K. Korotkov, 5 pp.
RUSSIAN, np, Vodnyy Transport, 15 Sept 1966, p. 2.
JPRS 38893

Ways of Overcoming Seasonality in Agricultural Labor, by B. Solov'yev, 9 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 5, May 1966, pp. 74-80.
JPRS 38599

Closer Ties between Reclamation and Procurement Organs during the New Five-Year Period, by I. Borodavchenko, 5 pp.
RUSSIAN, per, Zakupki Sel'skokhozyaystvennykh Produktov, No. 8, 1966, pp. 3-5.
JPRS 38552

USSR
Economic (Contd)

Large-Scale Rice Cultivation during the New Five-Year Period, by M. Ivanov, 6 pp.
RUSSIAN, per, Zakupki Sel'skokhozyaystvennykh Produktov, No. 8, 1966, pp. 29-31.
JPRS 38552

News of Soviet Equipment -- Motor in a Wheel, by N. Baraban, et al,
RUSSIAN, per, Za Rulem, No 10, 1964, pp 12-13.
ACSI J-1005
ID 2204052466

New Railway Lines to be Constructed During the Five-Year Plan, 6 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No 9, 1966, pp. 81-81.
JPRS 38854

Conference of the Ministers of Transport of the Organization for Railroad Cooperation, 6 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No. 9, 1966, pp. 83.
JPRS 39068

Locomotive Productivity on the Increase, by A. V. Okhremchik, 10 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No 10, Oct 1966, pp. 15-19.
JPRS 39116

Far North Residential Building, by V. Ozhiganov, 9 pp.
RUSSIAN, per, Zhishchnoye Stroitel'stvo, No. 9, 1966, pp. 6-9.
JPRS 38504

Storage Device, by F. G. Staros and I. V. Berg, et al,
RUSSIAN, Patent No 178,178, 25 Jan 1965.
*FTD-MT-67-6

Some Aspects of the Operation of the Soviet Merchant Fleet, by Albert Boyer,
FRENCH, per, Journal de la Marine Marchande, 25 Aug 1966, pp 1937-1939.
Dept of Comm
Maritime Admin

USSR
Economic (Contd)

Soviet Shipping Must Revise Its Thinking in the Light of Productivity Demands, 3 pp.
GERMAN, per, Hansa, No 18, Sept 1966, pp 1489-1490.
Dept of Comm
Maritime Admin

Soviet View of the Time in Port, 3 pp.
GERMAN, per, Hansa, No 19, Oct 1966, pp 1608-1610.
Dept of Comm
Maritime Admin

Political

Soviet Sinologist Comments on the Life of Sun Yat-Sen, by S. Tikhvinskiy, 5 pp.
RUSSIAN, np, Izvestiya, 12 Nov 1966, p. 2.
JPRS 38981

Anticommunism--An Ideology of Fear and Hatred, 14 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 3-14.
JPRS 38654

Topical Problems of Socialist Political Economy Seminar-Introduction, 11 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 47-56.
JPRS 38654

Individual Freedom and Responsibility, by G. Smirnov, 14 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 57-68.
JPRS 38654

The Noble Mission of the Writer, by Sergey Mikhalkov, 11 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 69-71.
JPRS 38654

Chauvinism and National Nihilism in the Ideology of Imperialism, by E. Bagramov, 14 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 105-116.
JPRS 38654

USSR
Political (Contd)

V. I. Lenin and the Masters of Culture, by P. Podlyashuk and Yu. Sharapov, 6 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 117-120.
JPRS 38654

Soviet Appraisal of the Meaning of Lenin's Theory of Socialist Revolution for Today, by Col. A. Kirillov, 14 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No. 19, 1966, pp. 13-22.
JPRS 38616

Proletarian Internationalism, by I. Krivoguz, 5 pp.
RUSSIAN, np, Leningradskaya Pravda, 1 Oct 1966, pp. 2-3.
JPRS 38532

Characteristic Features of the Present Day Revolutionary Process, by B. Korolev, 10 pp.
RUSSIAN, per, Politicheskoye samoobrazovaniye, No. 10, 1966, pp. 20-28.
JPRS 38616

Scientific Socialism and the Petty Bourgeois Ideology, by T. Timofeyev, 6 pp.
RUSSIAN, np, Pravda, 24 Oct 1966, pp. 2-3.
JPRS 38703

The Tried and True Course, 6 pp.
RUSSIAN, np, Pravda, 7 Dec 1966, p. 1.
JPRS 39144

The Socialist Camp, by L. N. Tolkunova. 542p.
RUSSIAN, bk, Sotsialisticheskiy Lager', 1962, pp 1-432. P 100120156-V
FTD-TT-65-1555

Leninist Norms of Party Life, by P. A. Rodionov, 19 pp.
RUSSIAN, per, Voprosy Istorii KPSS, No. 10, Oct 1966, pp. 14-26.
JPRS 38715

USSR
Military

Armies and Social Progress, by V. Vasil'yev, 5 pp.
RUSSIAN, per, Aziya i Afrika segodnya, No. 9, 1966, pp. 5-7.
JPRS 38995

Combat with Low Flying Objects, by V. A. Zalepa,
RUSSIAN, rpt, Bor'ba s Nizkoletyashchimi Tselyami, 1966, 63 pp.
*FTD-MT-66-169

Manual for the Population on Protection Against Atomic, Chemical and Bacteriological Weapons, 44 pp.
RUSSIAN, per, DOSAAP Pub House, 1957, pp 4-62.
Dept of Navy Tr 5040/ONI Tr 2236

Methods of Protection Against Nuclear, Chemical and Bacteriological Weapons, 97 pp.
RUSSIAN, per, DOSAAP Pub House, Moscow, 1963.
Dept of Navy TR 5037/ONI Tr 2249

Civil Defense, by P. T. Yegorov, I. A. Shlyakhov, V. S. Mordvinov, I. V. Simonenko and Yu. A. Sipaylov, 237 pp.
RUSSIAN, bk, Grazhdanskaya Oborona, 1966, pp. 5-215.
JPRS 38675

Advocated of Agression, by T. Kondratkov, RUSSIAN, np, Krasnyaya Zvezda, Aug 24, 1966, p 3.
*RAND

Six Years of Heroic Struggle, RUSSIAN, np, Pravda, Cols 1-7, 20 Dec 1966, p 3.
*FTD-HT-67-25

Dictionary of Basic Military Terms. RUSSIAN, bk, Slovar' Osnovnykh Voennykh Terminov, 1965, 248 pp.
*FTD-HT-66-714

Military Applications of Bionics and Control Systems Outlined, by V. Sokolov, 11 pp.
RUSSIAN, per, Tekhnika i Vooruzheniye, No. 10, 1966, pp. 64-71.
JPRS 38925

USSR
Military (Contd)

Explanatory Dictionary of Military Terms,
by P. I. Skuyveda.
RUSSIAN, bk, Tolkovyy Slovar' Voyennykh
Terminov, 1966, 528 p.
*ACSI-1630
ID 2204002867

Shedding Light on the Activities of Command
Personnel in Works on Military History, by
B. Solov'yev, 13 pp.
RUSSIAN, per, Voyenno-istoricheskiy zhurnal, No.
9, Sept 1966, pp. 27-35.
JPRS 38551

The General Staff Academy, by B. Shaposhnikov,
24 pp.
RUSSIAN, per, Voyenno-istoricheskiy zhurnal, No.
9, Sept 1966, pp. 72-86.
JPRS 38551

The Literature on the Military Operations,
by Col. P. Maslov, 21 pp.
RUSSIAN, per, Voyenno-istoricheskiy Zhurnal,
No. 9, Sept 1966, pp. 87-95.
JPRS 38551

About the Criteria for Evaluating the Nature
of Wars and of Foreign Policy, by K. Sergeev,
16 pp.
RUSSIAN, per, Voyenno-istoricheskiy Zhurnal, No.
9, Sept 1966, pp. 104-113.
JPRS 38551

Beginning of the Battle of Moscow, by I. Konev,
15 pp.
RUSSIAN, per, Voyenno-istoricheskiy zhurnal,
No. 10, Oct 1966, pp. 56-67.
JPRS 38799

Counteroffensive at Moscow, by G. Zhukov, 19 pp.
RUSSIAN, per, Voyenno-istoricheskiy zhurnal,
No. 10, Oct 1966, pp. 68-85.
JPRS 38799

Methods of Training Students Via Military-
District Courses for Improving the Skills of
Medical Service Officers, by M. V. Dvoryant-
sev and P. Ye. Rappoport, 6 pp.
RUSSIAN, per, Voyenno-Meditsinskiy Zhurnal,
No. 8, Aug 1966, pp. 12-15.
JPRS 38566

USSR
Military (Contd)

Reconnaissance Team Competitions in Tallin,
by N. Shumeyko, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Oct 1966,
No. 10, pp. 20-21.
JPRS 38973

Effects of Nuclear, Chemical and Bacteriologi-
cal Weapons, by A. Bardin and T. Sudnikov, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No. 10,
Oct 1966, pp. 22-23.
JPRS 38973

A New Breed of "Steel Horses", by Yu.
Al'perovich.
RUSSIAN, per, Yuniy Tekhnik, No 8, 1964,
pp 36-39.
*ACSI J-1351
ID 2204059666

Russian General Reviews Defense and Retalia-
tory Role of Soviet Armed Forces, by Pavel
Kurotshkin, 6 pp.
GERMAN, per, Deutsche Aussenpolitik, No. 10,
Oct 1966, pp. 1179-1183.
JPRS 39079

Geographic

Beluga, by S. E. Kleinenberg,
RUSSIAN, bk, Belukha, 1964, Chapters 1-3,
8-13, 15-16, 302 pp.
*CFBTI TT 67-51345

Sixth Continental Expedition, 1960-1962
General Description and Preliminary
Scientific Results, by V. M. Driatskiy,
336pp.
RUSSIAN, rpt, Transactions of the
Soviet Antarctic Expedition, Vol XLIII,
1965, pp 5-171. P500106266-V
Dept of Navy/ONI Tr 2224

The Sprat of the Black Sea, by N. Aslanova,
RUSSIAN, per, Trudy VNIRO, No 8, 1954,
pp 75-101.
Dept of Inter
SI4211
EB2 No 538

USSR
Sociological

Buddhism: A Soviet View, by A. N. Kochetov,
222 pp.
RUSSIAN, bk, 1965, pp. 1-199.
JPRS 39115

Soviet Exchange Students Comment on Conditions
in China, 9 pp.
RUSSIAN, np, Bakinskiy rabochiy, 19 Nov 1966,
p. 3; 20 Nov 1966, p. 3.
JPRS 39100

Instructions on the Maintenance of "Labor Books"
at Enterprises, Institutions and Organizations,
11 pp.
RUSSIAN, per, Byulleten', Gosudarstvennyy
Komitet Soveta Ministrov SSSR po Voprosam Truda
i Zarabotnoy Platy, No. 6, pp. 29-37.
JPRS 38982

Waste of Metal Can be Reduced, by K.
Mirgorodskiy, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No 42,
Oct 1966, p 17.
JPRS 39110

Proper Organization of Guaranteed Wages in
Kolkhozes, by V. Khurikov, 10 pp.
RUSSIAN, per, Ekonomika Sel'skogo Khozyaystva,
No. 9, Sept 1966, pp. 84-91.
JPRS 38978

Suggestions for Payment of Kolkhoz Labor and
the Draft Kolkhoz Regulations, by T. Kotsyuba,
6 pp.
RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, No.
5, Aug 1966, pp. 59-62.
JPRS 38608

Better Organization of Teaching in Higher
Schools, by S. Spivak, 6 pp.
RUSSIAN, np, Izvestiya, 29 Sept 1966, p 3.
JPRS 39111

A Dialogue on Examinations, by E. Maksimova,
8 pp.
RUSSIAN, np, Izvestiya, 20 Oct 1966, p 3.
JPRS 39111

Cultural Monuments Are An Important Educational
Facility, by V. Kochemasov, 11 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966,
pp. 78-86.
JPRS 38654

USSR
Sociological (Contd)

The Workers' Class Is the Vanguard of the
Revolutionary Forces of Our Time, 11 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966,
pp. 87-104.
JPRS 38654

The Rostrum of Soviet Historians, by F. Volkov,
A. Glinkin and K. Seleznev, 9 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966,
pp. 120-125.
JPRS 38654

Physics and Mathematics Olympiads in Siberia
and Central Asia, by A. Bol'shakov and S.
Kheyfets, 5 pp.
RUSSIAN, np, Kommunist Tadzhikistana, 7 Jul
1966, p. 3.
JPRS 38994

Black Lists of the Cultural Revolution, 12 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 29 Sept
1966, p. 3.
JPRS 38532

Lessons of Autonomous Financing, by B.
Rakitskiy, 8 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 19 Oct
1966, pp 1-2.
JPRS 39109

Raising the Living Standards of the Rural
Population, by N. Lagutin, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 21 Oct 1966,
pp. 2-3.
JPRS 39109

Improvement in Organization of Labor at Plants
Engaged in Mass-Flow Production, by B. Ye.
Yusufovich, 6 pp.
RUSSIAN, per, Mashinostroitel' No. 8, 1966,
pp. 12-13.
JPRS 38947

Report Delivered by the Minister of Health
USSR Before the Academy of Medical Sciences
USSR, 19 pp.
RUSSIAN, np, Meditsinskaya Gazeta, 12 July
1966, pp. 2-3.
JPRS 38674

USSR
Sociological (Contd)

Analysis of the Teachings of the Koran,
by T. Saidbayev, 6 pp.
RUSSIAN, per, Nauka i Religiya, No. 9,
1966, pp. 60-63.
JPRS 38689

Growth Reserves Inherent in Labor Productivity,
by A. Golov, 11 pp.
RUSSIAN, per, Planovoe Khozyaystvo, No. 8,
Aug 66, pp. 1-8.
JPRS 38718

Making Full Use of Labor Resources, by L.
Dorokhova, 7 pp.
RUSSIAN, per, Planovoe Khozyaystvo, No. 8,
Aug 1966, pp. 25-29.
JPRS 38718

CPSU Program on Defense of the Socialist
Fatherland 1965, by K. Bochkarev,
I. Prusanov.
RUSSIAN, bk, Programma KPSS - O Zashchite
Sotsialisticheskogo Otechestva 1965,
1965, pp 1-3; 43-50; 56-104; 110-128; 131-174.
*FTD-HT-66-719

The Soviet State Pension System and the Dynam-
ics of Invalidism, by A. Tret'yakov, 10 pp.
RUSSIAN, per, Sotsial'noye Obespecheniye, No.
7, 1966, pp. 27-32.
JPRS 38982

Plans for the Introduction of a Scientific
Basis for the Organization of Labor, 5 pp.
RUSSIAN, np, Sovetskaya Litva, 27 Oct 1966,
p. 2.
JPRS 38859

Problems and Solutions in Converting to a Five-
Day Work Week, by A. Denisov, 8 pp.
RUSSIAN, per, Sovetskiye Profsoyuzy, No. 15,
Aug 1966, pp. 12-14.
JPRS 38869

The Organization of Labor on a Scientific
Basis, by G. Grigor'yev, 12 pp.
RUSSIAN, per, Stroitel', No. 7, July 1966,
pp. 1-5.
JPRS 38982

Solving Crime by Geometry, by Arkadiy
Vaksberg, 10 pp.
RUSSIAN, per, Tekhnika Molodashi, No. 7, 1966,
pp. 34-36A.
JPRS 38631

USSR
Sociological (Contd)

Science and Engineering in the New Five-
Year Plan, 7 pp.
RUSSIAN, per, Tekhnologiya i Organizatsiya
Proizvodstva, No 5, pp 1-3, 1966.
JPRS 39110

New Decree Passed Concerning Working Condition
at Construction Sites and Enterprises, 5 pp.
RUSSIAN, np, Trud, 16 Sept 1966, pp. 1-2.
JPRS 38501

Trade Union Meeting in Moscow, 5 pp.
RUSSIAN, np, Trud, 7 Oct 1966, p. 1.
JPRS 39068

Labor, Equipment and Research Problems in
Development of the Extreme North, by B.
Shapalin and V. Yanovskiy, 5 pp.
RUSSIAN, np, Trud, 29 Oct 1966, p. 2.
JPRS 39080

Soviet Institutions of Higher Learning Prepare
For the New School Year, 5 pp.
RUSSIAN, per, Vestnik vysshey shkoly, No 8,
1966, pp. 3-6.
JPRS 38995

Public Control in the Institutions of Higher
Learning, by B. N. Tikhonov and I. A. Yermakov,
7 pp.
RUSSIAN, per, Vestnik vysshey shkoly, No 8,
1966, pp. 5-6.
JPRS 38995

The Establishment and Development of the
Higher School in Latvia, by L. K. Riyemeris,
7 pp.
RUSSIAN, per, Vestnik vysshey shkoly, No 8,
1966, pp. 79-84.
JPRS 38995

Mathematical Models in Pedagogy, by B. V.
Gnedenko, 8 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 9,
Sept 1966, pp. 25-31.
JPRS 38835

Express Monitoring of Laboratory Operations,
by B. M. Vakhol'skiy, V. P. Zhar, B. P.
Ryabikin, 8 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 9,
Sept 1966, pp. 31-36.
JPRS 38835

USSR
Sociological (Contd)

The Development of Personal Insurance under the People's Government, by Dimitur Petkov, 9 pp.
BULGARIAN, per, Finansi i kredit, No. 5, June 1966, pp. 3-9.
JPRS 38671

How the Five-Day Work Week Will be Achieved by Misho Mishev, 7 pp.
BULGARIAN, per, Naruchnik na agitatora, No. 19, Oct 1966, pp. 13-21.
JPRS 38673

Perfecting the System Governing the Distribution of the Wage Fund Based on Final Work Results, by Blazho Banchev and Mikhail Petev, 6 pp.
BULGARIAN, per, Naruchnik na Agitatora, No. 20, Oct 1966, pp. 24-29.
JPRS 38923

Biographic

Mikhail L'vovich Tsetlin, 6 pp.
RUSSIAN, per, Biofizika, No. 5, 1966, pp. 939-941.
JPRS 39024

Olga Maksimovna Gavrusyko (60th Anniversary of Birth), 3 pp.
RUSSIAN, per, Gig Trud i Prof Zabol, Vol I, No 8, 1966, pp 59-60.
JPRS 38927

Vladimir Aleksandrovich Litkens (75th Anniversary of Birth), 2 pp.
RUSSIAN, per, Gig Trud i Prof Zabol, Vol I, No 8, 1966, pp 60.
JPRS 38927

Andrey Sergeyevich Arkhipov (65th Anniversary of Birth), 3 pp.
RUSSIAN, per, Gig Trud i Prof Zabol, Vol I, No 8, 1966, p 61.
JPRS 38927

Boris Borisovich Koyranskiy (80th Anniversary of Birth), 3 pp.
RUSSIAN, per, Gig Trud i Prof Zabol, Vol I, No 8, 1966, p 62.
JPRS 38927

USSR
Biographic (Contd)

Boris Borisovich Bykhovskiy (70th Anniversary of Birth), 4 pp.
RUSSIAN, per, Gig Trud i Prof Zabol, Vol I, No 8, 1966, p 63.
JPRS 38927

Selected Works of K. E. Tsiolkovskiy, 763 pp.
RUSSIAN, bk, Izbrannyye Trudy, 1962, pp 1-535.
FTD-MT-64-241

EASTERN EUROPE

Economic

The Fourth Five-Year Plan Is Based on the Revolutionary Principle of Reliance on Our Own Forces, by Hasan Banja, 18 pp.
ALBANIAN, per, Ekonomia Popullore, No. 4, Jul-Aug 1966, pp. 5-21.
JPRS 38651

Bread Grains -- The Main Link in Our Agricultural Production, by Hilmi Zajmi, 9 pp.
ALBANIAN, per, Ekonomia Popullore, No. 4, July-Aug 1966, pp. 22-30.
JPRS 38651

The Development of Democracy in the Cooperatives As An Important Means of Executing Important Agricultural Tasks, by Muzaffer Ahmati, 12 pp.
ALBANIAN, per, Ekonomia Popullore, No. 4, July-Aug 1966, pp. 31-41.
JPRS 38651

Industrialization Essential to Complete the Building of Socialism, by Hasan Banja, 12 pp.
ALBANIAN, per, Rruga e Partise, Vol. XIII, No. 9, Sept 1966, pp. 15-23.
JPRS 38618

For Exploitation of Existing Facilities and Early Preparation of Production Facilities in New Enterprises, by Fejso Bino, 11 pp.
ALBANIAN, per, Rruga e Partise, No 10, Oct 1966, pp. 45-52.
JPRS 38845

Eastern Europe
Economic (Contd)

Problems of Architecture in Albania, by
Shinasi Dragoti, 7 pp.
ALBANIAN, np, Zeri i Popullit, 21 Sept 1966,
p. 3.
JPRS 38845

The Correct Policy of the Party for the Per-
fection of Relations in Production, by
Hasan Banja, 5 pp.
ALBANIAN, np, Zeri i Popullit, 14 Oct 1966,
pp. 2-3.
JPRS 38651

The Effectiveness of Scientific Research and
Effective Forms of Its Financing, by Tsonyu
Kornazhev, 11 pp.
BULGARIAN, per, Finansi i kredit, No. 5, June
1966, pp. 10-18.
JPRS 38630

The Introduction of Checks As a Form of Pay-
ment To Be Used By the Population, by Yonka
Khristova, 5 pp.
BULGARIAN, per, Finansi i kredit, No. 5, June
1966, pp. 30-34.
JPRS 38671

Bank Control over Construction Projects, by
Ivan Shishkov, 12 pp.
BULGARIAN, per, Finansi i kredit, No. 5, June
1966, pp. 43-52.
JPRS 38671

Taxation of the Population, by Stefan Vasiliev,
10 pp.
BULGARIAN, per, Finansi i kredit, No. 7, Aug-
Sept 1966, pp. 30-39.
JPRS 38996

Problems Relating to the Production and
Technical Base for Construction During the
Fifth Five-Year Plan, 1966-1970, by Evgeni
Sibinov, 15 pp.
BULGARIAN, per, Ikonomicheska misul, No 8,
Oct 1966, pp. 16-27.
JPRS 39129

The Achievements and Prospects for the Bul-
garian Food Industry, by V. Vaklinov, 5 pp.
BULGARIAN, per, Khranitelna promishlenost,
No. 7, Aug 1966, pp. 1-3.
JPRS 38699

Eastern Europe
Economic (Contd)

New Varieties of Field-Crop Plants, by
Pavel Popov, Ivan Kalaidziev and Simeon
Machev, 8 pp.
BULGARIAN, per, Kooperativno semedlie, No
9-10, Sept-Oct 1966, pp. 2-5.
JPRS 38859

Bulgarian Participation in CEMA--A Factor in
the Economic Development of Bulgaria, by
Dyanko Furtunov, 9 pp.
BULGARIAN, per, Naruchnik na agitatora, No.
19, Oct 1966, pp. 32-40.
JPRS 38700

Payments to the State Budget by Enterprises
under the New System of National Economy Man-
agement, by Yanko Yanev, 9 pp.
BULGARIAN, per, Naruchnik na Agitatora, No. 20,
Oct 1966, pp. 14-23.
JPRS 38923

Procurement Prices of Agricultural Products,
by Ivan Olovanski, 13 pp.
BULGARIAN, per, Novo vreme, No. 9, Sept 1966,
pp. 41-49.
JPRS 39084

Increasing the Effectiveness of the National
Economy - An Important Task for the Fifth Five
Year Plan, by Licho Gyulemezov, 13 pp.
BULGARIAN, per, Novo vreme, No. 9, Sept 1966,
pp. 111-119.
JPRS 38861

The Economic Rights of State Farms Under the
New Economic System in Bulgaria, by Todor
Petkov, 5 pp.
BULGARIAN, per, Otchetnost i kontrol, No 9,
Sept 1966, pp. 370-373.
JPRS 38859

The Prospective Development of Heavy Machine-
building, by Khr. Kirov, P. Konchev and N.
Kolev, 13 pp.
BULGARIAN, per, Planovo stopanstvo i statis-
tika, No. 8, Sept 1966, pp. 21-31.
JPRS 38924

The Decisive Condition for Fulfilling the
Basic Tasks in Agriculture During the Fifth
Five-Year Plan, by Georgi Kostadinov, 11 pp.
BULGARIAN, per, Planovo stopanstvo i statistika,
No 8, Sept 1966, pp. 42-52.
JPRS 38816

Eastern Europe
Economic (Contd)

Expansion of Socialist Production in Bulgaria between 1966 and 1970, by Bistritsa Peneva, 2 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No. 8, Sept 1966, pp. 3-13.
JPRS 38996

Some Problems Relating to the Growth of Net Income in Industry, by Tsvetan Petrov, 12 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No. 8, Sept 1966, pp. 53-60.
JPRS 38996

Price Formation and Technical Reconstruction, Modernization and Expansion of Production Enterprises, by Yordan Shekerov, 13 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No. 8, Sept 1966, pp. 61-69.
JPRS 38996

Planning the Activity of Joint Enterprises among the Socialist Countries and the State Monopoly over Foreign Trade, by Georgi Danov, 8 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No. 8, Sept 1966, pp. 70-74.
JPRS 38803

The Bulgarian Economy and International Cooperation with the Socialist Countries, by Mikh P. Enev, 7 pp.
BULGARIAN, per, Rabotnichesko delo, 29 Oct 1966, pp. 3-4.
JPRS 38803

Transistors and Diodes of Bulgarian Production, 7 pp.
BULGARIAN, per, Radio i televiziya, No. 9, Sept 1966, pp. 288-290.
JPRS 38586

Some Basic Problems of Foreign Trade under the New System of Management of the National Economy, by Boris Minkovski, 6 pp.
BULGARIAN, per, Vunshn turgoviya, No. 8, Aug 1966, pp. 4-6.
JPRS 38615

Some Characteristics of Oceanic Shipping of Commodities between Bulgaria and Foreign Ports, by Radomir Mednikarov, 6 pp.
BULGARIAN, per, Vunshna turgoviya, No. 8, 1966, pp. 19-20.
JPRS 38615

Eastern Europe
Economic (Contd)

The Economic Relations of Bulgaria With the Developing Nations and Their Participation in the 22nd Plovdiv Fair, by Ivan Golomeev, 5 pp.
BULGARIAN, per, Vunshna turgoviya, No 10, Oct 1966, pp. 6-8.
JPRS 38860

The Significance of the Plovdiv Fair for Economic Collaboration Between Bulgaria and Other Balkan Nations, by Marin Krlev, 5 pp.
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JPRS 38860

The Broadening and Strengthening of Trade and Economic Contacts Between Syria and Bulgaria, by Mariya Puncheva, 5 pp.
BULGARIAN, per, Vunshna turgoviya, No 10, Oct 1966, pp. 18-20.
JPRS 38860

Is Changing the Economic Model Enough? by S. Vacha, 8 pp.
CZECH, per, Ekonomicka Revue, No. 6, Aug 1966, pp. 260-265.
JPRS 38923

The Role of Prices in the New Management System in Agriculture, by Dr. Zdenek Starnovsky, 11 pp.
CZECH, per, Ekonomika zemedelstvi, No. 7, July 1966, pp. 173-176.
JPRS 38505

Taxes and Subsidies in the New Management System, by Jar. Koci, CSc, 14 pp.
CZECH, per, Ekonomika zemedelstvi, No. 7, July 1966, pp. 177-181.
JPRS 38505

Fixed Units and Their Effect on Agricultural Taxes, by Stanislav Radek, Milos Klecka and Josef Dusek, 5 pp.
CZECH, per, Ekonomika zemedelstvi, No. 7, 1966, pp. 182-183.
JPRS 38505

Interest and Credit in the Improved Management System in Agriculture, by B. Srnsky and M. Pella, 7 pp.
CZECH, per, Ekonomika zemedelstvi, No. 7, 1966, pp. 183-185.
JPRS 38505

Eastern Europe
Economic (Contd)

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CZECH, per, Ekonomika Zemedelstvi, No 8, Aug 1966, pp. 208-211.
JPRS 38588

Organization under New Management System in Agriculture in Czechoslovakia, by Jiri Berek, 15 pp.
CZECH, per, Ekonomika zemedelstvi, Vol. 1966, No. 9, Sept 1966, pp. 237-240.
JPRS 38644

Internal Organization of Uniform Agricultural Cooperatives in Czechoslovakia, by Josef Drahovzal, 20 pp.
CZECH, per, Ekonomika zemedelstvi, Vol 1966, No. 9, Sept 1966, pp. 241-245.
JPRS 38644

Price Changes and Prices of New Products and Services in Agriculture in Czechoslovakia, 15 pp.
CZECH, per, Ekonomika zemedelstvi, Vol. 1966, No. 9, Sept 1966, pp. 258-260.
JPRS 38644

Inclusion of Bezirk-Managed Industry in Exports, by G. Stania, 11 pp.
GERMAN, per, Aussenhandel und Innerdeutscher Handel, No. 9, Sept 1966, pp. 9-12.
JPRS 39096

Problems of Implementing the New Economic System in Planning and Management at the VEB Walter Ulbricht Leuna Works, by Harald Rost, 18 pp.
GERMAN, per, Chemische Technik, No 10, Oct 1966, pp. 588-594.
JPRS 39129

New Statute of the German Investment Bank -- Work Program in the Second Stage of the New Economic System (I), by Hans Taut, 8 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No. 20, Oct 1966, pp. 5-8.
JPRS 38883

Some Conclusions From the Third Central Conference of State Farms, by G. Kaschner, 6 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 10, Oct 1966, pp. 470-472.
JPRS 39128

Eastern Europe
Economic (Contd)

Credit and State Bank in the New Economic System of Planning and Management, by Diethelm Hunstock, 15 pp.
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JPRS 38996

Use of Chemicals in Agriculture -- A Vital Measure for Stepping Up Agricultural Output, by G. Ewald, 7 pp.
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JPRS 38635

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GERMAN, per, Feldwirtschaft, No. 10, Oct 1966, pp. 511-515.
JPRS 38635

Resolution Concerning Tasks and Responsibility of State and Economic Organs as Regards Prices, 16 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part II, No. 82, 3 Aug 1966, pp. 535-541.
JPRS 38673

New Industrial Price Regulations in East Germany, 9 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part II, No. 112, 22 Oct 1966, pp. 711-714.
JPRS 38883

Problems of Mechanization of Cargo Handling in Seaports, by G. Prins, 1273
GERMAN, per, Hansa, Vol XV, Aug 1966, pp 1273
Dept of Comm
Maritime Admin

Increasing Cooperation between Socialist and Emerging Countries, 13 pp.
GERMAN, per, Markt Informationen, Vol. 32, No. 32 504, 8 Aug 1966, pp. 1-3.
JPRS 38700

The "UTSAMAT" System, the CEMA-Recommended System of Automatic Inspection, Regulation, and Control of Technological Processes, by H. Fuchs, 7 pp.
GERMAN, per, massen-steuern-regeln, No. 9, Sept 1966, pp. 135-137.
JPRS 38559

Eastern Europe
Economic (Contd)

Copper Smelting in Poland, by Z. Syryczynski, 7 pp.
GERMAN, per, Metall, Vol. 20, No. 11, 6 Nov 1966, pp. 1228-1229.
JPRS 38916

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GERMAN, per, Plaste und Kautschuk, No. 10, Oct 1966, pp. 577-578 & 586.
JPRS 39069

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GERMAN, per, Seeverkehr, No 9, Sept 1966, pp. 364-366.
JPRS 38584

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GERMAN, per, Die Technik, No. 9, Sept 1966, pp. 549-554 and No. 10, Oct 1966, pp. 629-633.
JPRS 38721

The Standard Motor Plant of the Sachsenwerk Electrical Machine Building VEB, by A. Preusche, 7 pp.
GERMAN, per, Die Technik, Vol 21, No. 10, Oct 1966, pp. 619-622.
JPRS 38984

New Legal Relations Between Industrial Ministries and VVBs, by Dr. habil Uwe-Jen Heuer, 10 pp.
GERMAN, per, Vertragssystem, No 9, Sept 1966, pp 521-526.
JPRS 38464

Legal Questions Involved in Setting Up Export Offices, by Hugo Creydt, 11 pp.
GERMAN, per, Vertragssystem, Vol 10, No 10, Oct 1966, pp. 617-621.
JPRS 38737

Power Production in 1965, 15 pp.
GERMAN, per, Wochenbericht, Vol. XXXIII, No. 42, 21 Oct 1966, pp. 197-200.
JPRS 38676

Eastern Europe-
Economic (Contd)

Construction and Availability of Dwellings in East Germany, 6 pp.
GERMAN, per, Wochenbericht, No. 47, 25 Nov 1966, pp. 223-226.
JPRS 39030

Basic Changes in International Railroad Freight Traffic Agreement and in Related Directives, by W. Stemplewski, 7 pp.
GERMAN, per, Zeitschrift der Organisation fur die Zusammenarbeit der Eisenbahnen, Vol IX, No. 4, pp. 1-3.
JPRS 38915

New Price System of Industrial Raw and Primary Materials, by Dr. Mrs. Jolan Ritter Papp, 7 pp.
HUNGARIAN, per, Figyelo, 19 Oct 1966, p 3.
JPRS 38585

Coordination of the CEMA Countries' 1966-1970 Economic Plans, by Dr. Imre Vincze, 8 pp.
HUNGARIAN, per, Figyelo, 19 Oct 1966, pp. 6-7.
JPRS 38615

Export Interest and the Foreign Trade Organization, by Sander Cseitler, 8 pp.
HUNGARIAN, np, Figyelo, 2 Nov 1966, pp. 10.
JPRS 38950

About the Price Level, by Robert Hoch, 8 pp.
HUNGARIAN, np, Figyelo, 9 Nov 1966, p. 3.
JPRS 38996

Hungary's Third Five-Year Economic Plan, by Gyorgy Lazar, 5 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No. 9, Sept 1966, pp. 1017-1028.
JPRS 38996

The Development of Hungary's Chemical Industry and Its Problems, by Kalman Bitay and Attila Szekely, 16 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 11, Nov 1966, pp. 1284-1292.
JPRS 39177

Analysis of Superphosphate Production in Hungary by J. Gyarmati, 7 pp.
HUNGARIAN, per, Magyar Kemikusok Lapja, No. 9, 1966, pp. 477-479.
JPRS 38916

Eastern Europe
Economic (Contd)

The Role of Chemical Processing in the National Economy of Hungary, by Gyula Szeker, 16 pp.
HUNGARIAN, per, Magyar Tudomány, Nos. 7 & 8, July-Aug, pp. 448-458.
JPRS 38626

Enterprise Amalgamations in the Field of Machine Manufacturing, by Mrs. Ervin Ban and Mrs. Ferenc Kondor, 11 pp.
HUNGARIAN, per, Statisztikai, Nos. 8 & 9, Aug-Sept 1966, pp. 821-829.
JPRS 38883

Debate on Certain Problems of Meat Production, by Gyorgy Kerekes and Jozsef Takacs, 17 pp.
HUNGARIAN, per, Statisztikai Szemle, Vol 44, Nos. 8 & 9, Aug-Sept 1966, pp. 842-854.
JPRS 38877

Conditions for Technical Progress in Polish Chemical Industry, by Doc. inz. Ludwik Sobolewski, 7 pp.
POLISH, per, Chemik, No 9, Sept 1966, pp. 303-305.
JPRS 39177

Polish Electric Power Industry, Its World Position and Problems of Development, by Boleslaw Bartoszek, 19 pp.
POLISH, per, Energetyka, No. 8, Aug 1966, pp. 225-233.
JPRS 38686

Main Problems of Sanitation Engineering in the 5-Year Plan 1966-70, by Jerzy Majewski, 7 pp.
POLISH, per, Gas, Woda, i Technika Sanitarna, Vol XL, No 10, Oct 1966, pp. 325-327.
JPRS 39118

Project for a Composite Solution of Water Mangement Problems in the Lodz Region, by J. Grodzki,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 401-406.
CFSTI TT 63-11363

Effects of the 1959 Drought on Inland Shipping, by Z. Gruszczynski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 408-409.
CFSTI TT 63-11363

Eastern Europe
Economic (Contd)

Housing Construction in 1965 and during the Five-Year Plan 1961-1965; An Evaluation by the Housing Construction Institute, 36 pp.
POLISH, per, Investycje i Budownictwo, No. 7/8, Jul/Aug 1966, pp. 17-33.
JPRS 38636

Tractor and Machine Operating Costs in Agricultural Circles, by Jan Grysiak, 10 pp.
POLISH, per, Mechanizacja Rolnictwa, No 17, 1-15 Sept 1966, pp. 15-17.
JPRS 38588

Description of New Polish Ursus C-330 Tractor, by Edward Marganski, 5 pp.
POLISH, per, Mechanizacja Rolnictwa, Sept 16-30 1966, pp. 5-8 and 14.
JPRS 38635

The Tasks of the State Machine Stations, by Jozef Techma, 14 pp.
POLISH, per, Mechanizacja Rolnictwa, No 19, 1-15 Oct 1966, pp. 11-14.
JPRS 39128

Hydrocarbon Composition of Gasoline from 'Grobła' Crude Oil, by Dr. Pawel Szynagel, 8 pp.
POLISH, per, Nafta, No. 10, Oct 1966, pp. 302-305.
JPRS 38916

Rural Construction Investments 1966-1970, by Dymitr Perun, 6 pp.
POLISH, per, Nowe Drogi, No. 11, Nov 1966, pp. 136-141.
JPRS 38922

Factors for Profitable Management of Farming Circles, by Doc. Dr. Dyzma Galaaj and Dr. Tadeusz Hunek, 5 pp.
POLISH, per, Nowe Rolnictwo, No. 16, 16-31 Aug 1966, pp. 6-7.
JPRS 38922

Future Sources of Petroleum, by Stanislaw Albinowski, 5 pp.
POLISH, per, Polityka, No 39, 24 Sept 1966, pp. 10-11.
JPRS 38949

Eastern Europe
Economic (Contd)

The Problems of Production Organization and Technical Progress in the Field of Measuring Instruments during the 1966-1970 Period, by Tadeusz Podgorski, 12 pp.
POLISH, per, Pomiary Automatyka Kontrola, No. 8-9, Aug-Sept 1966, pp. 249-252.
JPRS 38896

Some Problems Concerning Services Rendered to Fishing Vessels in Deep Sea Ports, by Stanislaw Mickiewicz,
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol XIII, Ser C, 1964, pp 59-85.
*CFSTI TT 67-56031

The Coordinating Council As a Factor in Deepening Cooperation and Increasing the Effectiveness of Economic Activities, by I. Lupu, C. Lefter, and I Grigoriu, 15 pp.
RUMANIAN, per, Probleme Economice, No. 9, Sept 1966, pp. 43-55.
JPRS 38671

Economic Factors and Criteria for Equipment Modernization, by Dr. R. Katz, 18 pp.
RUMANIAN, per, Probleme Economice, No. 9, 1966, pp. 98-110.
JPRS 38670

First Medical Aid in Modern Warfare, by Antonin Benes and Jaroslav Lichtenberg,
POLISH, bk, Prvni Lekarska v Soudobe Valce, 1964, 176 pp. P100137966-V
FTD-TT-65-1584

Prospects for the Expansion of the Production of Slaughter Beef, by Julian Kielichowski, 5 pp.
POLISH, per, Przeglad Hodowlany, No 18, 16-30 Sept 1966, pp 3-4.
JPRS 38859

Problems in the Introduction of Socialist Management in Silviculture in Rumania, by C. Costea, 10 pp.
RUMANIAN, per, Revista Padurilor, No 8, Aug 1966, pp. 434-438.
JPRS 39128

Measures Ensuring Lead Production in 1966-1970, by Slawomir Kalembka, 10 pp.
POLISH, per, Rudy i Metale Niesielanne, No 8, Aug 1966, pp. 437-440.
JPRS 38583

Eastern Europe
Economic (Contd)

Prospects for the Development of Polish Glass Industry (1966-1980) by Janusz Jablkowski, 19 pp.
POLISH, per, Szklo i Ceramika, No. 9, Sept 1966, pp. 279-284.
JPRS 38701

Principles of Profitability at State Farms, by N. Stanescu, and M. Hilmu, 10 pp.
RUMANIAN, per, Viata economica, Vol 4, No 43, 28 Oct 1966, pp. 12-13.
JPRS 39128

The Possibilities for Using the ODRA-1003 Digital Computer in the Metallurgical Industry, by Andrzej Winnicki, 8 pp.
POLISH, per, Wiadomosci Hutnicze, No. 7-8, July-Aug 1966, pp. 238-241.
JPRS 38721

Achievements of the Machine Commission of CEMA, by Zygmunt Keh, 9 pp.
POLISH, per, Zycie Gospodarcze, 25 Sept 1966, pp. 1, 4, and 5.
JPRS 38860

Organization of Research in Machine-Building, by Alexandru Moga, 6 pp.
RUMANIAN, per, Constructia de Masini, Vol. 18, No. 8, Aug 1966, pp. 441-443.
JPRS 38964

Some Aspects of the Efficiency of Economic Activity, by I. Tulpan, 14 pp.
RUMANIAN, per, Finante si Credit, Vol XII, No 8, Aug 1966, pp. 3-13.
JPRS 38950

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RUMANIAN, per, Finante si Credit, Vol XII, No 8, Aug 1966, pp. 14-23.
JPRS 38950

Greater Effectiveness in the Expenditure of Investment Funds in the Transportation and Telecommunications Sector, by A. Tabara, 12 pp.
RUMANIAN, per, Finante si Credit, No. 9, Sept 1966, pp. 3-12.
JPRS 38892

Eastern Europe
Economic (Contd)

A Large-Scale Program for Rumanian Light Industry During the 1966-1970 Five Year Plan Period, by Ioan Moldovan, 10 pp.
RUMANIAN, per, Industria usorara, Vol 13, No 8, Aug 1966, pp. 457-460.
JPRS 38847

Textile Research Institute Achievements and Five-Year Plan Perspectives in Rumania, by Dr. Semerad Radulescu and Elena Ivan, 8 pp.
RUMANIAN, per, Industria textila, Vol 17, No 9, Sept 1966, pp. 529-532.
JPRS 38963

Industrialisation Promoted in 1966-1970 Five-Year Plan, by Mihai Marinescu, 13 pp.
RUMANIAN, per, Lupta de Clasa, No 9, Sept 1966, pp. 3-14.
JPRS 38585

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RUMANIAN, per, Lupta de Clasa, No. 9, Sept 1966, pp. 15-29.
JPRS 38505

Factors Contributing to An Increase in Economic and Social Effectiveness of Scientific Research, by I. Goliat, 17 pp.
RUMANIAN, per, Probleme Economice, Vol 19, No 8, Aug 1966, pp. 3-16.
JPRS 38521

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RUMANIAN, per, Probleme Economice, Vol. 19, No. 8, Aug 1966, pp. 17-27.
JPRS 38619

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RUMANIAN, per, Probleme Economice, No. 9, Sept 1966, pp. 71-84.
JPRS 38619

Rumania in the Framework of World Economy, by Dr. I. Ravar and J. Niculescu, 12 pp.
RUMANIAN, per, Revista de Statistica, Vol XV, No. 8, Aug 1966, pp. 11-20.
JPRS 38861

Eastern Europe
Economic (Contd)

Considerations Concerning Arable Land in Agricultural Statistics, by Petre Onica, 8 pp.
RUMANIAN, per, Revista de Statistica, Vol. 15, No. 9, Sept 1966, pp. 15-22.
JPRS 39084

Scientific Preoccupations in the Field of Economic Calculation and Economic Cybernetics, by Manea Manescu, 12 pp.
RUMANIAN, per, Studii si Cercetari de Calcul Economic si Cibernetica Economica, No. 1, 1966, pp. 7-14.
JPRS 38890

Research Program of the Economic Calculation and Economic Cybernetics Center for 1966 and 1966-1970, by Dr. C. Ionescu, 8 pp.
RUMANIAN, per, Studii si Cercetari de Calcul Economic si Cibernetica Economica, No. 1, 1966, pp. 19-24.
JPRS 38890

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RUMANIAN, per, Viata economica, No. 44, 4 Nov 1966, p. 8.
JPRS 38996

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RUMANIAN, per, Viata economica, No. 44, 4 Nov 1966, p. 9.
JPRS 38984

New Price Policies in the German Democratic Republic, by Dr. M. Boettcher, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No. 40, Oct 1966, p. 39.
JPRS 38620

Reform of the Market and Prices in Yugoslavia, by Hakijsa Penderac, 10 pp.
SERBO-CROATIAN, per, Ekonomika Politika, 29 Oct 1966, pp. 1377-1379.
JPRS 38950

The Concept and Function of Social Reserves in the Yugoslav Management System, by Ivo Karli, 9 pp.
SERBO-CROATIAN, per, Ekonomski pregled, No. 6-7, June-July 1966, pp. 408-414.
JPRS 38861

Eastern Europe
Economic (Contd)

Some Economic and Political Problems in the Private Farm Sector in Yugoslavia, by Dr. Kresimir Pazur, 15 pp.
SERBO-CROATIAN, per, Glasnik, No. 10, Oct 1966, pp. 20-29.
JPRS 38877

Some Problems of Economic Development and Cooperation in Yugoslavia within the Framework of the CEMA, by Draginja Arsic, 37 pp.
SERBO-CROATIAN, per, Medjunarodni problemi, No. 1, Jan-Mar 1966, pp. 9-35.
JPRS 38700

Improvement of the Internal Management of Agricultural Production Cooperatives, by D. Citu, 16 pp.
RUMANIAN, per, Probleme Economice, Vol 19, No 8, Aug 1966, pp. 65-77.
JPRS 38738

Raising Material Incentives in Agricultural Production Cooperatives, by V. V. Popovici, 15 pp.
RUMANIAN, per, Probleme Economice, No. 9, Sept 1966, pp. 85-97.
JPRS 38699

Metallogenetic Epochs and Bauxite Areas in Yugoslavia, by Dr. Engr. Slobodan Jankovic, 20 pp.
SERBO-CROATIAN, per, Budarski Glasnik, No. 2, Apr-June 1966, pp. 51-62.
JPRS 38735

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SERBO-CROATIAN, per, Medjunarodni transport, No. 10, Oct 1966, pp. 33-35.
JPRS 38892

Some Actual Problems in Statistics, by Rastko Skaljak, 9 pp.
SERBO-CROATIAN, per, Opatina, No. 9, Sept 1966, pp. 3-13.
JPRS 39096

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SERBO-CROATIAN, per, Produktivnost, No 10, Oct 1966, pp. 627-633.
JPRS 39150

Eastern Europe
Economic (Contd)

Formation and Types of Manganese Deposits in Yugoslavia, by Dr. Engr. Slobodan Jankovic, 19 pp.
SERBO-CROATIAN, per, Rudarski Glasnik, No. 2, Apr-June 1966, pp. 65-74.
JPRS 38735

The Types of Gold Deposits, Their Metallogenetic Epochs and Areas in Yugoslavia, by Dr. Engr. Slobodan Jankovic, 7 pp.
SERBO-CROATIAN, per, Rudarski Glasnik, No. 2, Apr-June 1966, pp. 77-80.
JPRS 38735

Problems in the Development of Copper Production in Yugoslavia, by Dr. Engr. Milan Jovanovic, 15 pp.
SERBO-CROATIAN, per, Rudarski Glasnik, No. 2, Apr-June 1966, pp. 93-101.
JPRS 38735

Enterprise Funds Under New System, by Adolf Jelinek, 12 pp.
SERBO-CROATIAN, per, Ekonomika Zemedelstvi, No 8, Aug 1966, pp. 216-220.
JPRS 38859

Directions and Tendencies in the Further Development of Socialised Agricultural Production in the Vojvodina, by Doctor Prokopijs Milenkovic, 16 pp.
SERBO-CROATIAN, per, Ekonomika Poljoprivrede, No 9, Sept 1966, pp. 665-677.
JPRS 38816

Some Results and Experiences in the Production of Wheat Under Cooperation Between Private Farms and Agricultural Cooperatives in 1960-1965, by Mladen Perisic, 11 pp.
SERBO-CROATIAN, per, Ekonomika Poljoprivrede, No 9, Sept 1966, pp. 693-704.
JPRS 38816

The Iron Gate Hydroelectric Power and Navigation System on the Danube River, by Panta Jakovljevic, 24 pp.
SERBO-CROATIAN, per, Elektroprivreda, No 5-6, Vol 19, May-Jun 1966, pp. 115-126.
JPRS 38821

Eastern Europe
Economic (Contd)

The Development and Future of the Electric Power System in Bosnia and Herzegovina, 38 pp. SERBO-CROATIAN, per, Elektroprivreda, No 5-6, Vol 19, May-Jun 1966, in the appendix, after p. 165.
JPRS 38821

The Development of the Yugoslav Economy and the Transition to a New Level of Development, by Rikard Lang, 15 pp. SERBO-CROATIAN, per, Encyclopaedia Moderna, No 1, Sept 1966, pp. 17-24.
JPRS 38737

Views and Proposals on Some Amendments to the Basic Law on Contributions and Taxes Levied on Citizens, by Marko Djurbabic, 18 pp. SERBO-CROATIAN, per, Finansije, No. 7-8, Jul-Aug 1966, pp. 340-356.
JPRS 38513

Some Implications of Consumer Credits in Yugoslavia, by Dr. Asim Stranjak, 14 pp. SERBO-CROATIAN, per, Finansije, No. 7-8, Jul-Aug 1966, pp. 390-403.
JPRS 38513

Changes in Freight Rates on Yugoslav Railroads, 6 pp. SERBO-CROATIAN, per, Medjunarodni transport, No. 10, Oct 1966, pp. 21-23.
JPRS 38892

Transportation of Cargo By Air, by B. Krstic, 7 pp. SERBO-CROATIAN, per, Medjunarodni transport, No. 10, Oct 1966, pp. 25-29.
JPRS 38892

Profit Margins and the Forming of Prices in Retail and Wholesale Trade, by Jovan Mirkovic, 6 pp. SERBO-CROATIAN, per, Privredni pregled, 8 Oct 1966, p. 3.
JPRS 38584

Eastern Europe
Political

The Political Line of the Albanian Workers' Party Has Always Been a Revolutionary One, by Ndrezi Plasari, 6 pp. ALBANIAN, np, Basnikimi, 25 Oct 1966, pp. 2-3.
JPRS 38651

Information on Government Planning Organs, by B. Bardhoshi and V. Toci, 8 pp. ALBANIAN, per, Ekonomia Popullore, No. 4, July-Aug 1966, pp. 95-102.
JPRS 38651

Development of Socialist Productive Relations in Correct Revolutionary Marxist-Leninist Way, by Hekuran Mara, 12 pp. ALBANIAN, per, Bruga e Partise, No 10, Oct 1966, pp. 27-37.
JPRS 38845

Basic Party Organizations Must Be Made Revolutionary Centers, by Manush Myftiu, 28 pp. ALBANIAN, per, Bruga e Partise, Vol. XIII, No. 9, Sept 1966, pp. 24-46.
JPRS 38618

Let Us Strengthen Marxist Leninist Education in Party Ranks, 9 pp. ALBANIAN, per, Bruga e Partise, Vol. XIII, No. 9, Sept 1966, pp. 47-53.
JPRS 38618

The Steel-Like Moral and Political Unity of Our Society Is Based on the Correct Line of the Party, by Iman Omari, 5 pp. ALBANIAN, np, Zeri i Popullit, 22 Oct 1966, p. 2.
JPRS 38651

The International Ideological Struggle and the Problem of Allies, by Vladimir Naydenov, 5 pp. BULGARIAN, per, Narodna Kultura, No. 40, 24 Oct 1966, p. 8.
JPRS 38616

Czech Writer Discusses Relation Between Fine Arts and Ideology, by Prof. Dr. Antonin Sychra, 8 pp. CZECH, per, Nova Mysl, Vol 20, No 23, 15 Nov 1966, pp. 14-16.
JPRS 39148

Eastern Europe
Political (Contd)

Contradictions of Bulgarian Development, by Petur Mitev, 18 pp.
BULGARIAN, per, Novo vreme, No 9, Sept 1966, pp. 7-18.
JPRS 39148

More Concreteness in Bulgarian Party Work Needed, by Marin Mikhaylov 8 pp.
BULGARIAN, per, Novo Vreme, No 9, Sept 1966, pp 60-64.
JPRS 38582

Czech Comment on the Possibilities and Limitations of Peaceful Coexistence, by Vladimir Petr, 10 pp.
CZECH, per, Mezinarodni vztahy, No. 1, Jan-Mar 1966, pp. 26-32.
JPRS 38724

Struggle of Marxism against Contemporary Bourgeois Ideology, by Roger Garaudy, 12 pp.
HUNGARIAN, per, Tarsadalmi Szemle, Nov 1966, pp. 49-58.
JPRS 39047

Relations between Yugoslavia and Syria Subsequent to 1961 Summarized, 5 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, No. 7-8, July-Aug 1966, pp. 301-302,
JPRS 33803

The Association of Communists of Yugoslavia Today, by Vladimir Bakaric, 25 pp.
CROATIAN, per, Nase teme, Vol X, Aug 1966, pp 1392-1420.
JPRS 38582

The New Economic Structure and Its Implications for the Nature of Political Relations and Processes in Our Society, by Dusan Bilandric, 35 pp.
CROATIAN, per, Nase teme, Vol X, No 8, Aug 1966, pp. 1421-1459.
JPRS 38582

First Secretary of CC of German Communist Party Interviewed, by G. Gurkov, 6 pp.
RUSSIAN, per, Komsomol'skaya Pravda, 6 Nov 1966, p. 3.
JPRS 38331

Eastern Europe
Military

Minelaying on Rivers and Lakes, by Lt. Col. St. Velikov, 8 pp.
BULGARIAN, per, Armeyski Pregled, No 9, Sept 1966, pp. 80-84.
JPRS 38752

The Use of Water Stemming Cartridges for Short-firing Operations in Mines, by E. Morhenn, GERMAN, rpt, Die Verwendung von Wasserbesatzpatronen bei der Chiessarbeit in Bergbau Sicherheit Bergbau u. Hutte Jc., Vol VI, No 6, 1960, pp 12-13.
Dept of Inter
TN7 E57 No 776

Automation and Cybernetics in a Modern army, by A. Iwaszkiewicz and M. Stolarski, et al, POLISH, bk, Automatyka i Cybernetyka we Wapolczesnej Armii, 1965, pp 123-182.
*FTD-HT-66-758

The Role of Commands and Leaders in ABC Warfare Defense, by General-Major Milos Manojlovic, 10 pp.
SERBO-CROATIAN, per, Vojno Delo, No 5, Sept - Oct 1966, pp. 3-10.
JPRS 39114

Geographic

Thoughts on the Development and Future of Atlas-Cartography, by Werner Bormann, GERMAN, per, Petermanns Geographische Mitteilungen, Vol V, No 5, 1961, pp 219-235.
Dept of Inter
100bm B54g

Eastern Europe
Sociological

Education of Workers Discussed by Secretary of the Central Council of Trade Unions, by Sotir Kamberi, 5 pp.

ALBANIAN, np, Puna, 9 Sept 1966, p. 3.
JPRS 38618

Law No. 4170 on the Labor Code of the Albanian People's Republic, 12 pp.

ALBANIAN, np, Puna, 20 Sept 1966, p. 3.
JPRS 38618

Law No. 4171 on State Social Insurance in the Albanian People's Republic, 22 pp.

ALBANIAN, np, Puna, 23 Sept 1966, pp. 3-4.
JPRS 38618

The Role of Bulgarian Trade Unions Under the New Management Conditions, 5 pp.

BULGARIAN, per, Bulgarski profsuyuzi, No 9, Sept 1966, pp. 6-8.
JPRS 38603

Intraplant Regulation of Wages in Bulgaria, 5 pp.

BULGARIAN, per, Bulgarski profsuyuzi, No 9, Sept 1966, pp. 8-10.
JPRS 38603

Labor Force Distribution, by Dimitur Vakarelski, 6 pp.

BULGARIAN, per, Narodni Suveti, Vol XVI, No. 4, Aug 1966, pp. 41-45.
JPRS 38802

Certain Problems of Employing the Labor Force in Bulgaria, by Minko Minkov, 8 pp.

BULGARIAN, per, Novo vreme, No 11, Nov 1966, pp. 49-55.
JPRS 39149

An Analysis of Problems in Converting to a Reduced Working Day, by Khristo Krinchev and Yordanka Miteva, 9 pp.

BULGARIAN, per, Novo vreme, No 11, Nov 1966, pp. 56-62.
JPRS 39149

Statistical Characterization of the Social and Biological Reproductive Balance of the Bulgarian Population, by Prof Dr A. Yu. Totev, 16 pp.

BULGARIAN, per, Planovo stopanstvo i statistika, No 7, Jul 1966, pp. 65-75.
JPRS 38603

Eastern Europe
Sociological (Contd)

Legal Problems in Courtroom Proceedings Associated with the Rights and Duties of Public Prosecutors and Public Defenders, by Marin Marinov, 10 pp.

BULGARIAN, per, Pravna misul, Vol III, No. 3, May 1966, pp. 79-84.
JPRS 38802

Conference on Bulgarian Comrade Courts, by R. M., 7 pp.

BULGARIAN, per, Pravna Misul, No 5, Sept/Oct 1966, pp. 132-136.
JPRS 39149

The Church and the Modern World, by Marko Kersevan, 19 pp.

CROATIAN, per, Pregled, No. 7-8, Jul-Aug 1966, pp. 43-57.
JPRS 38882

New Pay Scales for Scientific and Technical Workers in Bulgaria, by Asen Belchev, 5 pp.

BULGARIAN, np, Tekhnichesko delo, 15 Oct 1966, pp. 2-3.
JPRS 38853

The New Increase in Wages and the Tasks Ahead, 5 pp.

BULGARIAN, np, Trud, 21 Oct 1966, pp. 1, 2.
JPRS 38996

Professional and Educational Orientation of Young People of Serbia in the First Year of the Reform, by Branislav Milivojcev, 29 pp.

CROATIAN, per, Produktivnost, No. 10, Oct 1966, pp. 676-683.
JPRS 39002

Nationality Composition of Marriages in Czechoslovakia, by Vladimir Ziegenfuss, 11 pp.

CZECH, per, Demografie, No. 1, 1966, pp. 28-35.
JPRS 38655

Study on Criminal Recidivism in Czechoslovakia in 1964, by Jiri Podlesny, 23 pp.

CZECH, per, Demografie, Vol. 3 (1966), No. 3, July-Sept 1966, pp. 216-230.
JPRS 38720

Eastern Europe
Sociological (Contd)

Development of Czechoslovak Agricultural Labor Force in Number, Age Structure and Qualification, by Jaroslava Glaserova and Vaclav Houska, 20 pp.
CZECH, per, Demografie, Vol. 8 (1966), No. 3, July-Sept 1966, pp. 231-242.
JPRS 38720

Situation of Medicare in Czechoslovak Health Districts, by Ales Manek, 18 pp.
CZECH, per, Demografie, Vol. 8 (1966), No. 3, July-Sept 1966, pp. 243-252.
JPRS 38720

Discussion on Leveling of Wages, by Jiri Svejksky, 12 pp.
CZECH, per, Ekonomicka Revue, No 6, Aug 1966, pp. 276-287.
JPRS 38740

Urgent Tasks of Theory and Legal Policies in the Field of Personal Property Rights, by Stefan Luby, 8 pp.
CZECH, per, Vynalesy, Vol X, No 9, 15 Sept 1966, pp. 173-177.
JPRS 38603

New Version of Law on Vital Statistics, 14 pp.
GERMAN, per, Gesetzblatt der DDR, Part I, No 13, 13 Oct 1966, pp. 87-93.
JPRS 38655

Law on the GDR-Yugoslav Treaty on Legal Exchange in Civil, Family, and Criminal Cases, 13 October 1966 and GDR-Yugoslav Treaty on the Above Law, 30 pp.
GERMAN, per, Gesetzblatt der DDR, Part I, No. 14, 13 Oct 1966, pp. 95-109.
JPRS 38659

The Leipzig Spring Fair 1966, (part I), by O. E. May.
GERMAN, per, Die Strasse, No 6, 1966, pp 278-287.
ACSI J-1329
ID 2204058466

The Role of the Market in Deepening the International Socialist Division of Labor, by Gertrud Grabig, 15 pp.
GERMAN, per, Wirtschaftswissenschaft, No 10, Oct 1966, pp. 1598-1610.
JPRS 38820

Eastern Europe
Sociological (Contd)

Development of Employment in East Germany since 1960, 9 pp.
GERMAN, per, Wochenbericht, No. 44, 4 Nov 1966, pp. 207-210.
JPRS 38882

New Hungarian Doctors and Candidates, June 1966, 7 pp.
HUNGARIAN, per, Hungarian Science, Vol XI, No 9, Sept 1966, pp. 584-587.
JPRS 38851

Support System for TSZs Farming Under Adverse Natural Conditions, by Laszlo Pallos, 13 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No. 11, Nov 1966, pp. 1293-1303.
JPRS 39084

Aspects of Intellectual and Cultural Potential in Poland, by Zdzislaw Kowalewski, 27 pp.
POLISH, per, Kultura i Spoleczenstwo, No. 3, Jul-Sept 1966, pp. 47-64.
JPRS 38921

Translation Services in Poland, by B. W. Olszewska, 10 pp.
POLISH, per, Polityka, No. 46, 12 Nov 1966, p. 3.
JPRS 38938

Network and Profile of Specialised Secondary Schools for the 1966-67 Academic Year, 17 pp.
RUMANIAN, per, Buletinul Oficial al Republicii Socialiste Romania, Vol 2, No 59, 26 Sept 1966, pp. 4-14.
JPRS 38858

The Work of the Union of Communist Youth Organizations in the Schools, 9 pp.
RUMANIAN, per, Gazeta Invatamintului, Vol. 18, No. 867, 7 Oct 1966, pp. 1, 4.
JPRS 39002

The Health Situation in Rumania, 1965, by Dr. P. Muresan and Dr. M. Munteanu, 3 pp.
RUMANIAN, per, Viata Medicala, No. 19, Oct 1966, pp. 1279-1301.
JPRS 38647

Cliques in Yugoslavian Labor Organizations Characterised, by Veljko Rus, 18 pp.
SERBIAN, per, Gledišta, No 8-9, Aug-Sept 1966, pp. 1079-1097.
JPRS 38737

Eastern Europe
Sociological (Contd)

Nourishment in Farm Households, by Milan C. Petrovic, 24 pp.

SERBO-CROATIAN, per, Jugoslovenski pregled, No. 7-8, Jul-Aug 1966, pp. 289-296.
JPRS 38858

Production and Other Practical Work by Pupils in the General-Education Schools in Yugoslavia, 15 pp.

SERBO-CROATIAN, per, Jugoslovenski pregled, No. 7-8, Jul-Aug 1966, pp. 297-300.
JPRS 38802

The Characteristics of the Social Plan for the Development of Yugoslavia Up to 1970, by Vuko Medenica, 17 pp.

SERBO-CROATIAN, per, Radna i drustvena zajednica, No. 10, Oct 1966, pp. 537-550.
JPRS 39122

Current Housing Problems, by Smajo Hodzic, 6 pp.

SERBO-CROATIAN, np, Savremena Praksa, Vol. II, No. 94, 24 Oct 1966, pp. 1 and 10.
JPRS 38847

The Regulation on the Organization and Work of Social Insurance Commissions on Disability, 16 pp.

SERBO-CROATIAN, per, Sluzbeni List SFRJ, No. 35, 7 Aug 1966, pp. 681-686.
JPRS 38938

Problems of Juvenile Delinquency and Urbanization in Yugoslavia, by Dr. Aleksandar Todorovic, 13 pp.

SERBO-CROATIAN, per, Stanovnistvo, No. 1, Jan-Mar 1966, pp. 44-54.
JPRS 38802

WESTERN EUROPE

Economic

The French Merchant Fleet, by R. Puech.
FRENCH, per, La Revue Maritime, 1965, pp. 69-92.

Dept of Navy ONI Tr 2160/Navy 4627

The Present Structure of the World Iron and Steel Industries, and New Plant in Under-Developed Countries, by E. Mannelli.

ITALIAN, per, Bol. Tec. Finsider, No. 203, Jan 1964, pp. 2-10.
BISI 5169

Political

Criticism of the De Groot and Bakker Speeches, 10 pp.

DUTCH, per, De Rode Tribune, Aug-Sept 1966, pp. 8-12.
JPRS 38971

Dutch Communist Organ Supports Chinese Cultural Revolution, 6 pp.

DUTCH, np, Tribune, Aug-Sept 1966, pp. 3, 4 and 13.
JPRS 38971

Political Economy and Ideology, by Matti Peltonen, 15 pp.

FINNISH, np, Kansan Uutiset, 19 Oct 1966, p. 5; 20 Oct 1966, p. 5; and 21 Oct 1966, p. 4.
JPRS 39100

Problems Confronting the Finnish People's Democratic League, by J. A. Hentila, 5 pp.

FINNISH, np, Kansan Uutiset, 21 Oct 1966, p. 5.
JPRS 38703

French CP Writer on Chinese Cultural Revolution: "A Dangerous, Unprincipled Program", by Leo Figueres, 17 pp.

FRENCH, per, Cahiers du Communisme, Vol. 42, No. 10, Oct 1966, pp. 51-66.
JPRS 38971

Western Europe
Political (Contd)

Importance of Cell Newspapers Stressed in French CP Journal, by Pierre Eloire, 12 pp. FRENCH, per, Cahiers du Communisme, Vol. 42, No. 10, Oct 1966, pp. 88-99. JPRS 38971

Anti-Communist French Semimonthly Bulletin Discusses Communist "Cult of Personality", by Claude Harmel, 6 pp. FRENCH, per, Est et Ouest, Vol. XVIII, No. 369, 1-15 Oct 1966, pp. 1-3. JPRS 38918

French Journal Strongly Supports Chinese Communist Party, 10 pp. FRENCH, per, 1-Humanite Nouvelle, Vol. 2, No. 22, 6 Oct 1966, pp. 3, 6, 10, 11. JPRS 38918

Swiss Communist Paper Presents Sampling of Views on Communist-Christian Dialogue, 6 pp. FRENCH, np, Voix Ouvriere, 26 Nov 1966, p. 8. JPRS 39100

Anti-Communist Socialist Comment on Catholics and Crisis of Italian CP, by Giorgio Galli, 6 pp. ITALIAN, per, Corrispondenza Socialista, No. 8-9, Aug-Sept 1966, pp. 413-415. JPRS 38918

Italian Anticomunist Socialist View of Chinese Cultural Revolution, by Paolo Danielli, 7 pp. ITALIAN, per, Corrispondenza Socialista, No. 8-9, Aug-Sept 1966, pp. 437-440. JPRS 38918

Culpable Loyalties and Revolutionary Conscience, by Livio Risaliti, 5 pp. ITALIAN, per, Nuova Unità, Vol. III, No. 5, May 1966, p. 6. JPRS 38616

Italian Marxist-Leninist Federation Urges Fight for New-Style CP, 7 pp. ITALIAN, per, Rivoluzione Proletaria, Vol I, No 1, 20 Sept 1966, pp. 1 and 2. JPRS 38748

Italian Marxist-Leninist Comment on Cultural Revolution in China, by Adriana Chiaia, 8 pp. ITALIAN, per, Rivoluzione Proletaria, Vol I, No 1, 20 Sept 1966, pp 4-5. JPRS 38748

Western Europe
Political (Contd)

Essence of Policies of Marxist-Leninist Federation, 5 pp. ITALIAN, per, Rivoluzione Proletaria, Vol I, No 1, 20 Sept 1966, pp. 6 and 7. JPRS 38748

Italian Marxist-Leninist Group Federation Presents Political Program Draft, 13 pp. ITALIAN, per, Rivoluzione Proletaria, Vol I, No 1, 20 Sept 1966, pp. 8 and 9. JPRS 38748

Italian Marxist-Leninist Federation Journal Prints Two Letters of Resignation from Italian CP, 6 pp. ITALIAN, per, Rivoluzione Proletaria, Vol I, No 1, 20 Sept 1966, pp. 12. JPRS 38748

Longo's Opening Speech at the Italian Communist Party Central Committee and Central Control Commission Meeting, 10-13 October 1966, 22 pp. ITALIAN, np, L'Unita, 12 Oct 1966, pp. 1, 10, 11. JPRS 38591

PCI Debate: Calamandrei, Alicata, Natta, Ingrao, 12 pp. ITALIAN, np, L'Unita, 13 Oct 1966, pp. 12, 13. JPRS 38591

Longo's Concluding Speech at the Italian Communist Party Central Committee and Central Control Commission Meeting, 10-13 October 1966, 10 pp. ITALIAN, np, L'Unita, 14 Oct 1966, pp. 1, 10. JPRS 38591

Italian CP Stand on Chinese Communist Cultural Revolution Scored in Pro-Chicom Journal, by Mario Cannella, 6 pp. ITALIAN, per, Vento deli'Est, Vol. 1, No. 4, Oct 1966, pp. 97-100. JPRS 38981

Prominent Norwegian Communists Explain Their Party's Position in Television Interview, by Leif Johansen and Reidar T. Larsen, 7 pp. NORWEGIAN, np, Friheten, 22 Oct 1966, pp. 5, 11. JPRS 38532

Western Europe
Military

Advanced Inter-Service Course, 1964,
FRENCH, bk, Dossier Technique Marine, 1964,
pp 1-11; 1-15; 1-7; 1-4; 1-8. P500106666
Dept of Navy/ ONI Tr No 2234

Problems of the Modern Navy, by G. Cabanier,
18 pp.
FRENCH, per, La Revue Maritime, No 224,
1965, pp 956-972. P500089366
Dept of Navy/ONI Tr 2185

Sociological

Cooperation among the Workers for Democracy,
by Erkki Salomaa, 5 pp.
FINNISH, np, Kansan Utiset, 29 Oct 1966,
p. 4.
JPRS 38981

Jacques Grippa Speaks to the Free University
of Brussels on the Great Socialist Cultural
Revolution, by D. L., 10 pp.
FRENCH, per, La Voix du Peuple, No 43,
28 Oct 1966, pp. 5 and 8.
JPRS 38748

Italian Socialist Magazine Says United Labor
Union Must be Nonideological, by G. B. Aldo
Trespidi, 5 pp.
ITALIAN, per, Problemi del Socialismo,
Vol VIII, No 10, pp. 782-786.
JPRS 38748

AFRICA

Economic

Soviet Report on African Oil Resources and
Their Exploitation, by B. Soskin, 5 pp.
RUSSIAN, np, Bakinskiy Rabochiy, 20 Oct 1966,
p. 3.
JPRS 38722

Agriculture Minister Discusses Coffee
Cultivation in Burundi, by Anicet Njanguu,
5 pp.
FRENCH, np, Bulletin Hebdomadaire d'Information,
13-20 Aug 1966, pp. 1-3.
JPRS 38770

Africa
Economic (Contd)

Draft of New Congo-Kinshasa Mining Code, by R.
Tshamala, 7 pp.
FRENCH, np, Le Courrier d'Afrique, 11 Aug 1966,
pp. 1, 6 and 12 Aug 1966, pp. 1, 5.
JPRS 38547

Economic Survey of Gao Region of Mali and
Speech by President Keita at Gao Economic
Conference, by Mady Kante, 15 pp.
FRENCH, per, L'Essor Hebdomadaire, 3 Oct 1966,
No 375, pp 1, 5-7.
JPRS 38547

Banako-Berlin Air Route Inaugurated, by Sama
Classe, 7 pp.
FRENCH, per, L'Essor Hebdomadaire, Vol 8, No 381,
14 Nov 1966, pp. 1, 6-7.
JPRS 39123

Congo (Kinshasa) Minister of Public Works
Reports on First Half of 1966, by A. Apindia,
15 pp.
FRENCH, per, L'Etoile du Congo, 3 Oct 1966,
pp. 7-8; 4 Oct 1966, p. 7.
JPRS 38722

Study on Foreign Aid to Congo (Kinshasa) by J.
Gerard-Libois, 11 pp.
FRENCH, per, Etudes Congolaises, Vol IX/4, No.
4, Jul-Aug 1966, pp. 1, 8-16, 18-19.
JPRS 39070

Tunisian Economic Problems and New Measures to
Solve Them, 7 pp.
FRENCH, per, Informations d'Outre-Mer, No.
227, 7 Sept 1966, pp. 3-4; No. 228, 14 Sept 1966,
pp. 3-4; No. 229, 21 Sept 1966, pp. 3-4; No. 231
5 Oct 1966, pp. 3-4.
JPRS 38722

Domestic and External Difficulties of Congo-
Brazzaville, 5 pp.
FRENCH, per, Le Mois en Afrique, No. 9, Sept
1966, pp. 30-34.
JPRS 39070

Africa
Economic (Contd)

Senegal in 1966 -- A General Survey and Plans for the Future, 16 pp.

FRENCH, per, Perspective Africaine, Syntheses Politiques et Economiques, Vol. X, No. 205, 19 Oct 1966, pp. 1-8; No. 206, 9 Nov 1966, pp. 1-7.
JPRS 38864

A Trip across Togo and Dahomey, 16 pp.

FRENCH, per, La Semaine, Vol. 15, No. 733, 18 Sept 1966, pp. 1, 3; No. 734, 25 Sept 1966, pp. 1, 2; No. 735, 2 Oct 1966, pp. 1, 2; No. 736, 9 Oct 1966, pp. 1, 3; No. 737, 16 Oct 1966, pp. 1, 3; No. 738, 23 Oct 1966, pp. 1, 3.
JPRS 38940

Political

Crisis in Dahomey, by Mitinkpon Nignon, 13 pp.
FRENCH, np, Afrique Nouvelle, Vol. 20, Nos. 1001, 1001, and 1002, 29 Sept-5 Oct 1966, p. 24; 13-19 Oct 1966, p. 16; and 20-26 Oct 1966, p. 16.
JPRS 38722

Upper Volta Political Parties Propose New Government and National Policy, 5 pp.
FRENCH, per, Afrique Nouvelle, Vol. XX, No. 1004, 3-9 Nov 1966, p. 16.
JPRS 39070

Malian Minister Gologo Addresses Congress of Soviet Journalists, by Chouaibou Bonkane, 5 pp.
FRENCH, np, L'Essor, 6 Oct 1966, pp. 1, 3.
JPRS 38722

Malian President Defines Role of Sudanese-RDA National Political Bureau Commissions in Mali, by Modibo Keita, 5 pp.
FRENCH, np, L'essor, 10 Nov 1966, pp. 1 & 3.
JPRS 38940

Review of Soviet Writer N. Gavrilov's Book on Africa, by Jean-Pierre Morillon, 8 pp.
FRENCH, per, Est et Ouest, Vol. 18, No. 368, 16/30 Sept 1966, pp. 4-7.
JPRS 38864

Africa
Political (Contd)

The Tribal Contribution in the Creation and Evolution of Congo (Kinshasa) Political Parties, by Laszlo Nagy, 15 pp.

FRENCH, per, Geneve-Afrique, Vol. V, No. 1, 1966, pp. 36-50.
JPRS 38725

Role of the Alliance of the Bakongos in the Evolution of Kongo Nationalism, by Laurent Monnier, 10 pp.

FRENCH, per, Geneve-Afrique, Vol. V, No. 1, 1966, pp. 51-61.
JPRS 38725

The Revolutionary and Anti-Imperialist Role of the Guinean Youth Movement, JRDA, by Sekou Toure, 16 pp.

FRENCH, per, Horoya, Vol. 6, No. 1031, 20 Oct 1966, pp. 1-3; 21 Oct, pp. 1-3; 22 Oct, pp. 1 & 2.
JPRS 38722

General Diane Lansana Speech on the Role of the Guinean Army, by Gen. Diane Lansana, 5 pp.
FRENCH, np, Horoya, 4 Nov 1966, pp. 1 & 2.
JPRS 39070

The Guinean Party Draws Lessons from the American Imperialist Offensive, by Sekou Toure, 7 pp.
FRENCH, np, Horoya, 10 Nov 1966, pp. 1-3.
JPRS 38979

Guinean President Sekou Toure Blames U. S. for Ghana Detention of Guinean OAU Delegation and Calls for Struggle against Imperialism, 10 pp.
FRENCH, per, Horoya, No. 1049, 16 Nov 1966, pp. 1, 3-4, 6.
JPRS 39036

Cameroones Predicts African People's Victory over Imperialism, by Nwaal Dung, 10 pp.
FRENCH, per, Octobre, 1 Aug 1966, pp. 3-4, 25 Oct 1966, p. 6.
JPRS 38940

Ethnic and Political Problems of French Somaliland, by Roger Mallet, 15 pp.
FRENCH, per, Revue de Defense Nationale, Vol. 22, Dec 1966, pp. 1942-1955.
JPRS 39134

Africa
Political (Contd)

Moscow and Peking in Africa, by J. C. van Broekhuizen, 6 pp.
GERMAN, per, Afrika heute, No 21, 1 Nov 1966, pp 309-312.
JPRS 39123

The Overestimated "Yellow Peril" -- Sino-Soviet Competition for Africa, by Werner Holzer, 5 pp.
GERMAN, per, Afrika heute, No 22, 15 Nov 1966, pp. 325-327.
JPRS 39123

Military

Speech by President Sekou Toure on the Role of Guinean Army at Inauguration of West German Sponsored Factories, by Sekou Toure, 5 pp.
FRENCH, np, Horoya, 5 Nov 1966, pp. 1, 2.
JPRS 38979

Geographic

OTRACO. 94 pp.
FRENCH, bk, 1965, pp 5-87.
DIA LW 533-66

Sociological

Congo (Kinshasa) National Teachers' Union: Activities in 1965-1966, Plans for 1966-1967, 5 pp.
FRENCH, per, Le Courrier d'Afrique, 27 Sept 1966, p. 3.
JPRS 38570

The Role and Aim of the Guinean Rural Training Schools: A Speech by President Sekou Toure, 13 pp.
FRENCH, np, Horoya, 15 Oct 1966, pp. 1, 2, 3, and 16-17 Oct 1966, pp. 1, 2, 3.
JPRS 33722

Africa
Sociological (Contd)

On the Problems Faced by Malagasy Students by France, by P. F., 8 pp.
FRENCH, per, Lumiere, 22 Oct 1966, p. 5.
JPRS 38722

Role of the Malagasy Woman in Society, by Mme Zaiveline Ramarosaona, 5 pp.
FRENCH, per, Rythmes du Monde, Vol 14, No. 1-2, 1966, pp. 23-27.
JPRS 38547

Consociation between Blacks and Whites in the Portuguese Overseas Provinces, by Jorge Dias, 10 pp.
PORTUGUESE, per, Portugal em Africa, No 133-134, Jan-Apr 1966, pp. 48-54.
JPRS 38547

Yugoslav Comment on Activities and Some Problems of the Organization of African Unity, by Novica Blagojevic, 16 pp.
SERBO-CROATIAN, per, Medjunarodni Problemi, No 1, Jan-Mar 1966, pp. 77-88.
JPRS 38570

MIDDLE EAST

Economic

Time to Start the Administrative Revolution, 7 pp.
ARABIC, np, Al Ishtiraki, 15 Oct 1966, No. 46, pp. 2 & 3.
JPRS 39086

Production Depends on Administrative Revolution, 9 pp.
ARABIC, np, Al Ishtiraki, No. 46, 15 Oct 1966, pp. 4 & 5.
JPRS 39086

Report of the Executive Office of the Governorate of Matruh - Contraband of Gold, Money and Herds, 7 pp.
ARABIC, np, Al Ishtiraki, No. 46, 15 Oct 1966, pp. 18 & 19.
JPRS 39086

Middle East
Economic (Contd)

General Statistics 1952-1965, 59 pp.
ARABIC, bk, al-Kitab al-Sanawi lil-Insa'at al-'Ammah, 1952-1965, pp. 1-333.
JPRS 38702

Development of the Mining Industries in
the United Arab Republic, 13 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah wa al-Ihsa',
Aug 1966, Vol 44, pp. 34-44.
JPRS 38828

An Analytical Study of the Foreign Trade
for the Year 1964/65, 16 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah wa al-Ihsa'i,
Aug 1966, Vol 44, pp. 45-57.
JPRS 38828

Development of Agricultural Credit, 12 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah wa al-Ihsa',
No. 46, Oct 1966, pp. 48-57.
JPRS 39086

The 11th Session of the Central Committee of
the Communist Party of Israel Calls for
Opposition Against the Economic Program of the
Government, 5 pp.
HEBREW, np, Kol Haam, 30 Sept 1966, pp. 1 and 6.
JPRS 38817

Trip to the Kurd Region of Iraq, by Marcell
Forgacs, 5 pp.
HUNGARIAN, np, Magyar Nemzet, 30 Oct 1966
JPRS 38702

Water Mangement in Egypt, by K. Fanti,
POLISH, per, Gospodarka Wodna, Vol XX, No 5,
1960, pp 213-219.
CFSTI TT 63-11363

Middle East
Political

Unity of Revolutionary and Progressive Forces,
5 pp.
ARABIC, np, al-Ishtiraki, 3 Sept 1966, pp. 4-6.
JPRS 38824

The National Federation Party, 5 pp.
ARABIC, np, al-Ishtiraki, 17 Sept 1966, pp.
2-4.
JPRS 38824

Presidential Decree, by Gamal Abdal Nasser,
7 pp.
ARABIC, np, al-Jarida al-Rasmiyyah, No. 215,
20 Sept 1966, pp. 1027-1030.
JPRS 38553

Political Comments by Ali Sabry, Secretary
General of the Socialist Union, by Ahmad Hamrush,
32 pp.
ARABIC, per, Rose al-Yusuf, 5, 12 & 19 Sept
1966.
JPRS 38702

Leonidas Stringos Discusses Tactical Matters,
by Leonidas Stringos, 10 pp.
GREEK, per, Elliniki Aristera, No 38,
Sept 1966, pp. 19-25.
JPRS 38747

Sh. Mikunis in the Political Debate in Parliament,
5 pp.
HEBREW, np, Kol Haam, 19 Oct 1966, pp. 1 and 4.
JPRS 38817

Sounds Which Killed the Music, by Ruth Lovits,
6 pp.
HEBREW, np, Zo Haderakh, 27 Sept 1966, pp. 2,
5.
JPRS 38742

Eshkol Government Exposed, by Taufik Tuvi,
10 pp.
HEBREW, np, Zo Haderakh, 27 Sept 1966, p. 4.
JPRS 36742

Middle East
Sociological

The Bolshevization of Islam, by Dr. Salah-al-Din al-Mumajjid.
ARABIC, bk, Sept 1966, pp 110.
*JPRS/DC 12901

Elimination of Illiteracy, 7 pp.
ARABIC, np, al-Ishtiraki, 3 Sept 1966, pp. 28-31.
JPRS 38824

Migrant Laborers, 5 pp.
ARABIC, np, al-Ishtiraki, 17 Sept 1966, pp. 14-15.
JPRS 38824

After Rural Feudalism: Medical Feudalism, 13 pp.
ARABIC, np, Al Ishtiraki, No. 46, 15 Oct 1966, pp. 10 & 11.
JPRS 39086

Development of Education in the United Arab Republic, 15 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah wa al-Ihsa', No. 46, Oct 1966, pp. 13-26.
JPRS 39086

FAR EAST

Economic

Retreading of Automobile Tires with Vulcanization, 7 pp.
CHINESE, per, Ch'i-ch'e, No. 6, 12 June 1966, pp. 46-48.
JPRS 38706

Automobile Plant Learns from Ta-Ch'ing, by Ch'ang-ch'i, 12 pp.
CHINESE, per, Chi-hsieh Kung-yeh, No. 4, 25 Feb 1966, pp. 6-13.
JPRS 38638

1965 Was Best Year for Machine Industries, 8 pp.
CHINESE, per, Chi-hsieh Kung-yeh, No. 4, 25 Feb 1966, pp. 24-28.
JPRS 38638

Far East
Economic (Contd)

Continuous Summarization of Experience to Improve Quality of Products of Porcelain Plant, 6 pp.
CHINESE, per, Chi-hsieh Kung-yeh, No. 4, 25 Feb 1966, pp. 28-30.
JPRS 38638

Chinese Produced Electrical Appliances Enjoy Excellent Hong Kong Market, by Wan Li (5502 6849), 7 pp.
CHINESE, per, Ching-ohi Tao-pao, No 991, 17 Oct 1966, pp. 6-8.
JPRS 38863

Bright Future in Sales of Chinese Hardwares, by Hsieh Wei-tung (6200 5898 2639), 5 pp.
CHINESE, per, Ching-ohi Tao-pao, No 991, 17 Oct 1966, pp. 8-9.
JPRS 38863

Sundry Chinese Products Popular on the Hong Kong Market, by Hu Lan-shih (5170 5695 6108), 5 pp.
CHINESE, per, Ching-ohi Tao-pao, No 991, 17 Oct 1966, pp. 9-10.
JPRS 38863

Description of Contents of Hsi-tsang Chung-pu ti Chih-pei (The Vegetation of Central Tibet), 5 pp.
CHINESE, per, Hsi-tsang Chung-pu ti Chih-pei, June 1966, pp. 1-iii and 1.
JPRS 39085

Manage Well the Oil Wells for the People, by Hu Fa-lien (5170 3127 5571), 7 pp.
CHINESE, per, Hung-oh'i, No 13, 1 Oct 1966, pp. 41-45.
JPRS 38589

Description of Contents of Tung-pei Ching-chi Mu-ts'ai Chih (Compendium of the Industrial Timber of Manchuria), 14 pp.
CHINESE, rpt, Tung-pei Ching-chi Mu-ts'ai Chih, Mar 1964, pp. 1-vi and 1-5.
JPRS 39085

Fishing Vessel Management. by Shoichi Masuda, JAPANESE, rpt, Review of the Japanese Tuna Fishery, 1964.
Dept of Inter
SH11 A422 No 7

Far East
Economic (Contd)

The Construction of a Self-Reliant National Industry, 28 pp.
KOREAN, per, Kulloja, No. 8, Aug 1966, pp. 21-39.
JPRS 38929

Management of Socialist Economy and Planned Enterprise, by Yi Chae-Yong, 14 pp.
KOREAN, per, Kulloja, No 9, 1966, pp. 9-16.
JPRS 39153

Linking Urban and Rural Production in Our Nation Today, by Han Hui-ho, 7 pp.
KOREAN, per, Kulloja, No 9, 1966, pp. 17-21.
JPRS 39153

Superiority of Our Socialist System: Urban-Rural Differences Gradually Being Eliminated, by Hong Kwan Che, 8 pp.
KOREAN, np, Minju Choson, 21 Sept 1966, p. 2, and 22 Sept 1966, p. 2.
JPRS 38667

Questions about Fixing a Framework for Economically Profitable Exploitation of Various Types of Transport, by T. Namjin, 8 pp.
MONGOLIAN, per, Ehiyn Dzasag, Erhiyn Asuudal, No. 5, Oct 1965, pp. 16-24.
JPRS 38939

Regarding the Improvement of Procurators' Supervision of Investigation Work, by D. Yondon-
duichir, 16 pp.
MONGOLIAN, per, Ehiyn Dzasag, Erhiyn Asuudal, No. 5, Oct 1965, pp. 40-45.
JPRS 38939

Need to Improve Supervision over the Use of Motor Vehicles, by P. Baldorj, 6 pp.
MONGOLIAN, per, Ehiyn Dzasag, Erhiyn Asuudal, No. 5, Oct 1965, pp. 54-59.
JPRS 38939

Reports to the Party Regarding the Work of General Committees of Agricultural Artels, 6 pp.
MONGOLIAN, np, Unan, 31 Jan 1966, p. 1.
JPRS 38741

Calling Upon Agricultural Artel General Committees to Manage Properly the Artel Production, by Begdsuren and S. Gombodoo, 6 pp.
MONGOLIAN, np, Unan, 31 Jan 1966, p. 2.
JPRS 38741

Far East
Economic (Contd)

The Economy and Finances of the Democratic Republic of Vietnam, by V. Rastorguyev, 10 pp.
RUSSIAN, per, Finansy SSSR, No. 9, 1966, pp. 84-90.
JPRS 38696

Guidance in All Phases of Banking and Credit Unions to Increase, by Pham Hung, 21 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966, pp. 27-46.
JPRS 38660

Some Agricultural-Production Leadership Experiences of Vinh Linh under Conditions of Bitter Fighting, by Duong Ton, 10 pp.
VIETNAMESE, per, Hoc Tap, Sept 1966, pp. 84-92.
JPRS 38660

The Task of Heavy Industry, by Truong Van Dau 7 pp.
VIETNAMESE, per, Ky Thuat Cong Nghiep, Sept 1966, pp. 1-3.
JPRS 39090

Technical Advances in Wood Processing Branch, 1960-1965, by Le Huy Gon, 8 pp.
VIETNAMESE, np, Ky Thuat Cong Nghiep Nhe, Aug 1966, pp. 16-20.
JPRS 38607

Factory M. Has Many Ways of Promoting Production during the Dispersal Period, by Hung Chuong, 5 pp.
VIETNAMESE, np, Leo Dong, 24 Sept 1966, p. 2.
JPRS 38707

Necessary Preparatory Work for Winter-Spring Crop, by Duong Hong Hien, 5 pp.
VIETNAMESE, np, Nhan Dan, 21 Sept 1966, p. 2.
JPRS 38577

Developing Local Heavy Industry, by Nguyen Xuan Lam, 5 pp.
VIETNAMESE, np, Nhan Dan, 17 Oct 1966, p. 2.
JPRS 38712

Stepping Up Production of Staple Foodstuffs, by Le Dong, 5 pp.
VIETNAMESE, np, Nhan Dan, 18 Oct 1966, p. 2.
JPRS 38712

Far East
Economic (Contd)

Ha Bac Grows Sweet Potatoes, by Le Quang Tuan, 5 pp.
VIETNAMESE, np, Nhan Dan, 29 Oct 1966, p. 2.
JPRS 38951

Enforcement of Anti-Bootlegging Law, by Le Gian, 6 pp.
VIETNAMESE, np, Nhan Dan, No. 4602, 13 Nov 1966, p. 2.
JPRS 39090

Putting in Use All Available Labor Forces for the Improvement of Agricultural Production, by Vu Loan, 9 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 16, Aug 1966, pp. 43-50.
JPRS 38990

Young Technicians at Trai Nguyen Steel Mills, by Nguyen Dinh Thiem and Hong Giang, 8 pp.
VIETNAMESE, np, Tien Phong, 21 Aug 1966, p. 2.
JPRS 38545

Land Improvement in Thai Binh Province, by Dao Ngoc Canh, 11 pp.
VIETNAMESE, np, Tin Tuc Hoat Dong Khoa Hoc, Aug 1966, pp. 1-5.
JPRS 38955

Mechanization in Farming Cooperatives, by Nguyen Dien, 6 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Aug 1966, pp. 6-8.
JPRS 38955

Scientific Activities at Hanoi University, by Le Van Thiem, 9 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Aug 1966, pp. 18-22.
JPRS 38955

Standardization of Measurements, by Tran Bao, 5 pp.
VIETNAMESE, np, Tin Tuc Hoat Dong Khoa Hoc, Aug 1966, pp. 27-29.
JPRS 38955

Far East
Political

Build the Company into a Good School for Mao Tse-Tung's Thought, by Ch'en Chin-yuan (7115, 6855, 0337), 17 pp.
CHINESE, per, Hung-oh'i, No 13, 1 Oct 1966, pp. 21-31.
JPRS 38589

Czech Writer Reports on Visit to Communist China, by Rudolf Toman, 11 pp.
CZECH, per, Zemedelske Noviny, 18, 19, 20, 21 and 22 October 1966, pp. 1-2.
JPRS 38652

Isaac Deutscher's View of the Chinese Red Guard, by Gert Petersen, 5 pp.
DANISH, per, SF bladet, No. 79, 26 Nov 1966, pp. 5 & 6.
JPRS 39100

The Fascist Coup d'Etat in Indonesia, 12 pp.
DUTCH, np, De Rode Tribune, Aug-Sept 1966, pp. 6, 7, 13, 14, 15 & 16.
JPRS 38971

Chinese "Red Guard Revolution" Seen as Detracting from Vietnam Struggle, 6 pp.
FRENCH, per, France Nouvelle, No. 1,094, 5 Oct 1966, pp. 18-19.
JPRS 38703

Indonesian Political Developments in the Past Year, 5 pp.
FRENCH, per, L'Humanite Nouvelle, Vol. 2, No. 22, 6 Oct 1966, p. 12.
JPRS 38913

Communist Reporter Madeleine Riffaud Reports on Her Visit to North Vietnam, by Madeleine Riffaud, 40 pp.
FRENCH, np, L'Humanite, 18-21 and 25-27 Oct 1966.
JPRS 38832

Wilfred Burchett Interviews Downed US Pilots in North Vietnam, by Wilfred Burchett, 7 pp.
HUNGARIAN, per, Orszag-Vilag, 28 Sept, 5 & 12 Oct 1966.
JPRS 38696

Far East
Political (Contd)

Toru of Thirty Newspaper Correspondents of the Capital to Central Java, 11 pp.
INDONESIAN, np, Angkatan Bersendjata, 26, 27, 28, 29, and 30 Sept 1966, p. 3 of each date.
JPRS 38605

New Conflicts Have Deepened Crisis in Chinese CP Leadership, by Livio Maitan, 5 pp.
ITALIAN, per, Bandiera Rossa, Vol XVII, No 8, Sept 1966, pp. 1 and 6.
JPRS 38748

Chairman of Japanese Communist Party Central Committee Addresses Eighth Akahata Festival, 7 pp.
JAPANESE, np, Akahata, 11 Oct 1966, p. 1.
JPRS 38703

Japanese Communist Party Emphasizes Need for Combating Revisionism and Sectarianism, by Sakaki Toshio, 16 pp.
JAPANESE, np, Akanata, 11 Oct 1966, p. 5.
JPRS 38825

In Criticism of the Anti-Party Demagoguery of Nishizawa Ryuji, 23 pp.
JAPANESE, np, Akahata, 14 Oct 1966, p. 2.
JPRS 38825

Disunity in the International Friendship Movement, 9 pp.
JAPANESE, np, Akahata, 24 Oct 1966, p. 2.
JPRS 38748

Report of Japanese Communist Party Central Committee to Tenth JCP Congress, 10 pp.
JAPANESE, np, Akahata, 25 Oct 1966, pp. 1-3.
JPRS 38872

Japanese Communist Party Members Residing in Foreign Countries Must Firmly Defend Our Party Line and Hold to Their Pride and Self-Consciousness as Party Members, 10 pp.
JAPANESE, np, Akahata, 26 Oct 1966, p. 2.
JPRS 38697

Acceptance of Policy of Foreign Communist Party Versus Autonomy and Independence, 5 pp.
JAPANESE, np, Akahata, 28 Oct 1966, p. 3.
JPRS 38971

Far East
Political (Contd)

Concluding Remarks on the Discussion Concerning the Report of the Party Central Committee, by Kenji Miyamoto, 17 pp.
JAPANESE, np, Akahata, 2 Nov 1966, pp. 1-2.
JPRS 38971

Let Us Defend Our Self-Identity, 32 pp.
KOREAN, np, Kulloja, Aug 1966, pp. 2-20.
JPRS 38757

Marx and Engels' Struggle against the Leftist and Rightist Opportunists, by Ch'oe Kum-ch'un, 14 pp.
KOREAN, per, Kulloja, No. 8, Aug 1966, pp. 52-64.
JPRS 38929

For the Further Strengthening of Our Society's Political and Moral Unification, 9 pp.
KOREAN, per, Kulloja, No 9, 1966, pp. 2-8.
JPRS 39153

Support for the Vietnamese People is a Holy International Obligation of the World's Revolutionary People, by Kim Nam-Yong, 11 pp.
KOREAN, per, Kulloja, No 9, 20 Sept 1966, pp. 38-44.
JPRS 39153

The Struggle of Lenin and Stalin Against "Left-Wing" and Right-Wing Opportunism, by Fak Kum-yong, 31 pp.
KOREAN, per, Kulloja, No 9, 20 Sept 1966, pp. 45-64.
JPRS 39153

Follow the Flag of the Ever-Victorious Party, 7 pp.
KOREAN, np, Nodong Ch'ongnyon, 11 Oct 1966, p. 1.
JPRS 38757

Follow the Glorious Leadership of Our Party, 10 pp.
KOREAN, np, Nodong Sinmun, 10 Oct 1966, p. 1.
JPRS 38757

Let Us Forge Ahead in the Direction of Victory Indicated by the Party, 14 pp.
KOREAN, np, Nodong Sinmun, 15 Oct 1966, p. 1.
JPRS 38757

Far East
Political (Contd)

Revolutionary Party and Social Reforms, by Yu Tsedenbal, 15 pp.
MONGOLIAN, per, Namyn Am'dral, No. 3, Mar 1966,
pp. 3-16.
JPRS 39091

Glorious Forty-Fifth Anniversary of the Mongolian People's Army, by Col. J. Lhagbasuren, 6 pp.
MONGOLIAN, per, Namyn Am'dral, No. 3, Mar 1966,
pp. 21-25.
JPRS 39091

Directive of the Presidium of the People's Great Rural of the Mongolian People's Republic Concerning Election Districts, 16 pp.
MONGOLIAN, np, Unen, 29 Apr 1966, pp. 1 and 2.
JPRS 38741

Bright Prospects for Our Country's Future Development and Growth, by T. Ragcha, 6 pp.
MONGOLIAN, np, Unen, 3 May 1966, p. 2.
JPRS 38741

Wilfred Burchette Writes on South Vietnam for Red Star, by Wilfred Burchette, 8 pp.
RUSSIAN, np, Krasnaya Zvezda, 23 Oct 1966,
p. 3. and 26 Oct 1966, p. 3.
JPRS 38707

Concerning the Events in China, 10 pp.
RUSSIAN, np, Pravda, 27 Nov 1966, pp. 2-4.
JPRS 38972

Let Us Step Up the Theory-Formulating Task of the Party, 10 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966,
pp. 1-9.
JPRS 38660

Truong Chinh Speech on the Present Tasks of Men and Women Cadres Engaging in Philosophical Study in Our Country, by Truong Chinh, 21 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966,
pp. 10-24.
JPRS 38660

The Credit and Currency Project in Cuu Cao Village, by Doan Trong Truyen, 9 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966,
pp. 47-54.
JPRS 38660

Far East
Political (Contd)

Develop Democracy and Strengthen Discipline in the New Situation, by Tran Hieu, 10 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966,
pp. 55-62.
JPRS 38660

Energetically Make Village Government Sound, by Le Tat Duc, 9 pp.
VIETNAMESE, per, Hoc Tap, No. 9, Sept 1966,
pp. 63-70.
JPRS 38660

Quang Binh Grows Strong Through Challenges, by Nguyen Tu Thoan, 14 pp.
VIETNAMESE, per, Hoc Tap, Sept 1966, pp. 71-83.
JPRS 38660

The Korean People's Democratic Republic Is Further Consolidated Everyday, by Nguyen Duong, 7 pp.
VIETNAMESE, per, Hoc Tap, Sept 1966, pp. 96-102.
JPRS 38660

Let Us Consolidate the Relationship Between Base-Level Party Organizations and the Masses, by Le Duc Tho, 11 pp.
VIETNAMESE, np, Nhan Dan, 7 Nov 1966, pp 2 and 3.
JPRS 38814

Propaganda Work is Conducted in Areas Bombed by the Enemy, by Hoang Minh, 6 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 16, Aug 1966, pp. 51-56.
JPRS 38590

Military

Military Strategy and Tactics of North Vietnam and Vietcong.
CHINESE, per, Fei-Ch'ing Yen Chiu, No 1, 1966, pp 53-63.
*FTD-HT-66-780

Defeating American Air Escalation, by Dang Tinh, 7 pp.
VIETNAMESE, np, Nhan Dan, No 478, 20 Oct 1966,
p. 3.
JPRS 38758

Far East
Military (Contd)

A Collective Battle, by The Ky, 5 pp.
VIETNAMESE, np, Nhan Dan, 21 Oct 1966, p. 3.
JPRS 38814

How Is Military Behavior Formed? by Van Uyen
and Le Thu, 10 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 21, 22-23
Sept 1966, p. 2.
JPRS 38696

Geographic

The Vientiane Plain (Volumes I and II Plus
Annexes).
FRENCH, mono, Plaine de Vientiane, Vol I,
pp 1-166; Vol II, pp 228-299; Annex I,
pp 1-37; Annex II, pp 1-34; Annex III,
pp 1-14; Annex IV, pp 1-7; and Annex V,
pp 1-4.
*JPRS/SF-4498

The Deserts of Central Asia, by M. P. Petrov,
357 pp.
RUSSIAN, bk, Pustyni Tsentral'noy Azii, Vol I:
The Ordos, Alashan and Peishan, 1966, pp. 1-
273.
JPRS 39145

Sociological

Vowel Identification in Relation to Syllable
Duration, by Liang Chih-an, 7 pp.
CHINESE, per, Sheng-hsueh Hsueh-pao, No. 1,
Vol. 2, Mar 1965, pp. 20-23.
JPRS 38969

The Mean Spectral Characteristics of Ten Vowels of
the Standard Chinese (P'u-t'ung-hua), 13 pp.
CHINESE, per, Sheng-hsueh Hsueh-pao, Vol. 2, No.
1, Mar 1965, pp. 1-7.
JPRS 38969

The Pitch Indicator and the Pitch Characteris-
tics of the Tones in Standard Chinese, by Lin
Mao-ts'an, 15 pp.
CHINESE, per, Sheng-hsueh Hsueh-pao, Vol. 2,
No. 1, Mar 1965, pp. 8-15.
JPRS 38969

Far East
Sociological (Contd)

Students and Student Groups Attacked by
ASU-PKI, 8 pp.
INDONESIAN, np, Duta Masyarakat, 29 Aug 1966,
p. 2.
JPRS 38639

Let Us Further Enhance the National Character
of Our Films, 7 pp.
KOREAN, per, Chosen Longhwa, No 8, 1966, p. 2.
JPRS 38753

Some Problems in Teaching Foreign Languages
During the Coming Academic Year, by Ch'oe
Hl-t'aek, 5 pp.
KOREAN, per, Inmin Kyoyuk, No 3, 1966, pp. 16-
17.
JPRS 38666

Analysis of Historical Facts From Independent
Position, by HAM Ch'ang-jo, 12 pp.
KOREAN, per, Inmin Kyoyuk, No 8, Aug 1966,
pp. 9-13.
JPRS 38581

A Modernized Historical Interpretation of the
National Cultural Heritage, by Kim Ki-ch'ol
and Ha Su-hong, 9 pp.
KOREAN, per, Kulloja, No. 8, Aug 1966, pp. 40-
46.
JPRS 38929

Let Us Further Enhance Chuche in the Work of
Our Schools, by Kim Ha-chin, 7 pp.
KOREAN, per, Inmin Kyoyuk, 1966, No. 9, p. 2.
JPRS 39089

Unification of Thought and Art, by Kim Chae-
ha, 8 pp.
KOREAN, per, Kulloja, No 9, 1966, pp. 22-27.
JPRS 39153

The Anti-Fascist Struggle is an Urgent Task of
the South Korean People, by Im Ch'ungwang, 8 pp.
KOREAN, per, Kulloja, No 9, 20 Sept 1966,
pp. 33-37.
JPRS 39153

Let Us Better Reflect the Realities of
Chollima Movement, 5 pp.
KOREAN, np, Munhak Sinmun, 16 Sept 1966,
p. 1.
JPRS 38555

Far East
Sociological (Contd)

Artistic Translating and the Creative Research of the Translator, by Choe Il-ryung, 5 pp.
KOREAN, np, Munhak Sinmun, 16 Sept 1966, p. 4.
JPRS 38555

The Environment and the Development of the World Outlook of the Main Character in a Novel, by Om Ho-sok, 7 pp.
KOREAN, np, Munhak Sinmun, Sept 20, 1966, p. 1.
JPRS 38555

The Combative Task Presented Before Our Literature and Art in the Present Period, 10 pp.
KOREAN, np, Munhak Sinmun, 8 Nov 1966, p 1.
JPRS 39113

Let Us Elevate the Combative Function of the Short Story, by Kim Hong-mu, 7 pp.
KOREAN, np, Munhak Sinmun, 8 Nov 1966, p 2.
JPRS 39113

Twentieth Anniversary of Kim Il-Song University, by Choi Chae-O, 6 pp.
KOREAN, np, Nodong Ch'ongnyon, 25 Sept 1966, p. 2.
JPRS 38606

Let the Youth Step Up the Building of Socialism by Simultaneously Undertaking the Economic and Defense Construction, 10 pp.
KOREAN, np, Nodong Ch'ongnyon, 19 Oct 1966, p. 1.
JPRS 38757

Our Educational System which Gives Everyone the Same Privilege to Learn, by Young Sick Wnang, 5 pp.
KOREAN, np, Ro Dong Sinmun, 25 Sept 1966, p. 2.
JPRS 39069

The Great Work of Improving the Capital City, by S. Lubsan, 5 pp.
MONGOLIAN, np, Daluuohuudyn Unen, 20 Apr 1966, pp. 1 and 2.
JPRS 38741

Regarding the Intensification of Struggle against Crime and for Prevention of Crimes, by Ts. Dager-suren, 10 pp.
MONGOLIAN, per, Eidiyn Dzasag, Erhiyn Asudal, No. 5, Oct 1965, pp. 25-39.
JPRS 30939

Far East
Sociological (Contd)

The Present Condition of Court Trial Work and Future Tasks, by H. Dandin, 9 pp.
MONGOLIAN, per, Eidiyn Dzasag, Erhiyn Asudal, No. 5, Oct 1965, pp. 46-53.
JPRS 38939

Soviet Comments on the Chinese "Cultural Revolution" by Sergeev, 6 pp.
RUSSIAN, per, Agitator, No. 20, Oct 1966, pp. 53-55.
JPRS 38703

The Karens in Siam, by J. Andersen.
SWEDISH, per, Geografisk Tidskrift, Vol 31, 1928, pp 233-242.
ACSI J-1104
ID 2204059466

It Is Necessary to Develop Pharmaceutical Activities in the Villages, by Ngo Gia Truc, 5 pp.
VIETNAMESE, per, Daoc Hoc, No. 6, 1966, pp. 1-3.
JPRS 38712

Some Ideas on Establishing Cooperative and Hamlet Medical Kits, Collective Medical Packets and Family Medical Packets, by Le Van Thuan, 5 pp.
VIETNAMESE, per, Daoc Hoc, No. 6, 1966, pp. 3-5.
JPRS 38712

Great Problems in the Leadership of Current Direction of Education, by Le Lien, 6 pp.
VIETNAMESE, np, Nhan Dan, 10 Oct 1966, p. 2.
JPRS 38590

Biographic

A Soviet Biographical Sketch of Sun Yat-sen, by L. Kyuzadzryan, 5 pp.
RUSSIAN, per, Agitator, No. 20, Oct 1966, pp. 56-58.
JPRS 38703

Autobiography of Nguyen Van Tuyen, by Nguyen Van Tuyen, 8 pp.
VIETNAMESE, per, Tin Tuc Hoat Dong Khoa Hoc, Aug 1966, pp. 35-39.
JPRS 38955

LATIN AMERICA

Economic

Development Projects of the Chemical Industry in the Latin American Countries, 7 pp.
GERMAN, per, Markt-Informationen, No. 43, 24 Oct 1966, pp. 1, 7.
JPRS 38891

Positive Policy Established on Rock Salt and Potassium Mining in Northern Brazil, by Carlos Magalhaes, 6 pp.
PORTUGUESE, np, Jornal de Comercio, 12 Nov 1966, p. 9.
JPRS 39102

Application of the Plan for Industrial Efficiency, by Joel Domenech, 10 pp.
SPANISH, per, Cuba Socialista, Nov 66, pp. 38-47 and 51-53.
JPRS 38930

The Role of Fertilizers in Cuban Agriculture, 5 pp.
SPANISH, per, Cuba Socialista, Nov 1966, pp. 128-134.
JPRS 38930

Report of Guatemala's President to the People, SPANISH, np, Diario de Centro America, 29 Sept 1966, pp. 1 & 6.
JPRS 38682

Resolutions No 269 and 293 on Life Insurance and Government Stamps, 5 pp.
SPANISH, np, Gaceta Oficial, 30 Aug 1966, pp. 77-81.
JPRS 38554

The Problem of Abandoned Automobiles, by Mirta Rodriguez Calderon, 5 pp.
SPANISH, np, Granma, 19 Oct 1966, p. 8.
JPRS 38965

Fifty New Sugarcane Collection Centers Being Built, 5 pp.
SPANISH, np, Juventud Rebelde, 26 Sept 1966, p. 8.
JPRS 38823

Latin America
Economic (Contd)

INRA Chief Interviewed on Camaguey Province Agricultural Progress, by Esther Ayala and Armando Marin, 9 pp.
SPANISH, np, Juventud Rebelde, 14 Oct 1966, p. 5.
JPRS 39037

Ministry of Foreign Trade Scheduled for the Presentation of Import Agreement Pertaining to the 1967 Plan, 24 pp.
SPANISH, np, El Mundo, 17 Sept 1966, pp. 5 & 6.
JPRS 38617

800 Thousand Quintals of Coffee Expected This Year from Oriente Province, by Rolando Castillo, 5 pp.
SPANISH, np, Sierra Maestra, 13 Aug 1966, pp. 1 & 4.
JPRS 39037

Ideological Confusion Limits Economic Development, 6 pp.
SPANISH, np, El Universal, 16 Oct 1966, p. 40.
JPRS 38682

Results of Cuban Experimentation in Irrigation Methods, by Engr Jorge Santamarina, 9 pp.
SPANISH, per, Voluntad Hidraulica, No. 12, Aug 1966, pp. 4-10.
JPRS 39037

Political

Brazilian Editorial on Private Sector Participation in Alliance for Progress, by Lauro Portella, 13 pp.
PORTUGUESE, np, Diario de Noticias, 25 Sept 1966, pp. 1 & 2.
JPRS 38550

Questionnaire Prepared by Peruvian CP Organization Commission for Consideration by Party Members, 5 pp.
SPANISH, per, Bandera Roja, Vol IV, No. 25, Oct 1966, p. 6.
JPRS 38679

Latin America
Political (Contd)

Achievements of the Cuban Committees for the Defense of the Revolution on Farms and in Rural Areas, 5 pp.
SPANISH, bklet, The CDR on Farms and Rural Areas, 1965, pp. 9-13.
JPRS 38549

Books: A Weapon in the Ideological Battle, by Ladislao G. Carbaljal, 10 pp.
SPANISH, per, Cuba Socialista, Nov 1966, pp. 54-65.
JPRS 38930

Social Research in the EIR, by Isaac Otero, 13 pp.
SPANISH, per, Cuba Socialista, Nov 1966, pp. 66-82.
JPRS 38930

Communist Action in Chile, 18 pp.
SPANISH, per, Esto & Oeste, No 97, Oct 1966, pp. 17-25.
JPRS 38748

Our Tribute to the October Revolution, 7 pp.
SPANISH, np, Granma, No. 309, 7 Nov. 1966, p. 2.
JPRS 38866

Cuban Press Official Addresses International Journalists' Congress, by Ernesto Vera, 6 pp.
SPANISH, np, Granma, 8 Nov 1966, p. 2.
JPRS 39075

Raul Roa Urges Battle Against Bureaucracy, 9 pp.
SPANISH, np, El Mundo, 22 Sept 1966, pp. 1, 7.
JPRS 38617

Appraisal of Cuba by Chilean Leftist Writer, by Jorge Lillo, 5 pp.
SPANISH, np, Noticias de Ultima Hora, 6 Nov 1966, p. 4.
JPRS 39075

Manifesto Issued by the Ecuadoran People's Leftist Front, 5 pp.
SPANISH, per, El Pueblo, No 515, 24 Sept 1966, pp. 3 and 4.
JPRS 38748

Latin America
Political (Contd)

Opinions of Ex-Parliamentarians and Other Political Prisoners on the Current Political Situation in Venezuela, by Pompeyo Marquez, 8 pp.
SPANISH, per, Que, Vol. III, No. 117, 7 Oct 1966, pp. 6-7.
JPRS 38616

Peruvian Pro-Soviet Communist Pronouncement on the "Cultural Revolution" in China, 6 pp.
SPANISH, np, Unidad, 7 Oct 1966, p. 7.
JPRS 38679

Pro-Soviet Faction of Peruvian CP Defends Its Founder against Alleged Slander by Pro-Chinese Faction, by Jorge del Prado, 5 pp.
SPANISH, np, Unidad, 4 Nov. 1966, p. 6.
JPRS 38918

Calendar of Subversive Communist Activities -- April to August 1966, 12 pp.
SPANISH, np, El Universal, 20 Oct 1966, p. 14.
JPRS 38971

Functioning of People's Courts Discussed, by Dr. Santiago Cubas, 17 pp.
SPANISH, per, Verde Olivo, 16 Oct 1966, pp. 24-27 and 45.
JPRS 39163

The Second JCC Congress, 8 pp.
SPANISH, np, Voz Proletaria, 20 Oct 1966, pp. 9 & 12.
JPRS 39100

Gilberto Vieira Speech to JCC Congress, 6 pp.
SPANISH, np, Voz Proletaria, 20 Oct 1966, pp. 10-11.
JPRS 39100

Latin America
Military

Coffee Harvested by Soldiers, 6 pp.
SPANISH, np, Bohemia, 21 Oct 1966, pp. 45-
52 & 90.
JPRS 39075

Military Penal Law No. 1200, 40 pp.
SPANISH, per, Gaceta Oficial, 30 Sept 1966,
pp 3-20.
JPRS 39112

Military Penal Procedure Law No 1201, 73 pp.
SPANISH, per, Gaceta Oficial, 30 Sept 1966,
pp. 21-53.
JPRS 39112

Cuban Air Force Pilot Training Described, by
Oscar Gusman Betancourt, 5 pp.
SPANISH, np, Verde Olivo, 21 Aug 1966, pp.
34-45.
JPRS 38823

Geographic

Karstological Investigations in Cuba, by
Antonio Nunes Jimenes, Vladimir Panos and
Otakar Stelcl, 57 pp.
SPANISH, bk, Investigaciones Carstologicas en
Cuba, no date, pp. 1-110.
JPRS 38827

Sociological

Transportation Minister Addresses Freight
Control Course Graduates, 5 pp.
SPANISH, np, Granma, 30 Oct 1966, p. 5.
JPRS 39163

The Labor Force and Employment, by Dr. Jose
A. Bustamante, 5 pp.
SPANISH, np, Granma, 23 Sept 1966, p. 2.
JPRS 38617

The Rationalism of Youth, by Eleonora
Saydek and Andrzej Wielunski, 7 pp.
POLISH, per, Argumenty, No 42, 16 Oct 1966,
pp. 2, 3.
JPRS 39176

Latin America
Sociological (Contd)

Revolutionary Cuba Has Distributed National
Assets and Opportunities to All, by Pedro
Rios, 28 pp.
SPANISH, per, Panorama Economico Latinoamericano,
Vol 7, 1966, No 204, pp. 4-8, No 205, pp. 14-20,
and No 206, pp. 4-8.
JPRS 39175

United Nations Development Program (Special
Trend) Operations Plan Regional Project for
the Development of Fishing in Central America,
Proposal No 1,
SPANISH, rpt, Programa de las Naciones Unidas
Para el Desarrollo (Fondo Especial) Plan de
Operaciones Proyecto Regional de Desarrollo
Pesquero en Centroamerica Enmienda No 1,
1966.
*ACSI J-1607
ID 2204002567

SCIENTIFIC

Scientific
Aeronautics (Contd)

Aeronautics

Calculation of a Jet Axis in a Drifting Flow, by G. S. Shandorov.
RUSSIAN, per, Aviats Tekh Vol IX, No 2, 1966, pp 100-104.
*NASA TT F-10,630

The New TU-154 Airliner to Appear, by S. M. Yeger, 12 pp.
RUSSIAN, per, Grazhdanskaya Aviatsiya, No. 9, Sept 1966, pp. 8-11.
JPRS 38546

On the Entrained Mass of a Supersonic Jet in Off-Design Systems, by B. A. Balanin, 9 pp.
RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol VIII, No 5, 1965, pp 574-578. TP5002844
FTD-TT-65-1719

Temperature Field Determination of Longitudinally Air-Cooled Blades Based on an Asymptotic Analysis Method, by I. S. Lyubchenko.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, No 3, 1965, pp 98-107.
*FTD-HT-66-750

Balancing Properties of Supersonic Aircraft, by S. Yu. Skripnichenko.
RUSSIAN, per, Iz Vysch Ucheb Zaved, Aviat Tekh, No 1, 1966, pp 16-27.
*FTD-HT-66-738

Supersonic Profile With Minimum Drag and a Given Bendin, Strength, Ye. V. Dulagina, Ye. N. Yulintsev.
RUSSIAN, per, Iz VUZ Aviatsionnaya Tekhnika, No 3, 1965, pp 119-123.
*NASA TT F-10,631

Modes of Flight of a Flying Apparatus with a Direct-Flow Engine, which Assure Constancy of the Flame Stabilization Conditions, by V. N. Gruzdev and A. V. Talantov,
RUSSIAN, per, Izvestiya VUZ Aviatsionnaya Tekhnika, No 4, 1966, pp 121-128.
*FTD-HT-67-24

A Course in Aircraft Design, by M.N. Shul'zhenko, A. S. Mostovoy, 541 pp.
RUSSIAN, bk, Kurs Konstruktsiy Samoletov, 1965, pp 1-563. F100133166-V
FTD-MT-66-32

Problems of Biotelemetry During Prolonged Space Flights, by I. T. Akulinichev, et al.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress held in Madrid, 9-15 October 1966.
NASA TT F-10,404

Aerodynamic Study of the Fluid Flow in a Channel in a Reactor Charged With Ring-Shaped Fuel Elements Cooled Interiorly and Exteriorly, by Jean-Claude Rousseau. 58 +pp.
FRENCH, rpt, Nov 1965. P911170166
AEC ANL-tr-370

Zeus 2 Program One-Velocity Three-Dimensional Monte Carlo, by C. Devillers, P. Lafore, et al.
FRENCH, rpt, P911171166
AEC ORNL-tr-1371

Factors Acting on the Boundary Layer Transition at Hypersonic Speed, by R. Michel.
FRENCH, rpt, Paper Presented at the Third International Congress in the Aeronautical Sciences, Aug 27-31, 1962,
NASA TT F-10,382

Design of Pinned Blades for Vibration by B. F. Shorr.
RUSSIAN, rpt, Prochnost' i Dinamika Aviatsionnykh Dvigatelay, 1965, pp 292-315.
NASA TT F-10,273

Soviet Helicopter Construction, by A. M. Izakson, 173 pp.
RUSSIAN, bk, Sovetskoye Vertoletostroyeniye, Moscow, 1964, pp 1-163, 178-183, 196-209.
FTD-MT-65-90

Control of Supersonic Aircraft, by F. I. Sklyanskiy, 377 pp.
RUSSIAN, bk, Upravleniye Sverkhzvukovogo Samoleta, 1964, pp 1-388.
FTD-MT-65-89

Scientific
Aeronautics (Contd)

Technical Advances in the Final Assembly of Airplanes, by Wu Chen Wen.
CHINESE, per, Hang kong Zhishi (Hang kung Chih Shih, Vol II, No 3, 1965, pp 18-19.
*FTD-HT-66-799

Stability Research on Parachutes Using Digital and Analog Computers, by R. Ludwig.
GERMAN, rpt, Deut Forschungsanstalt Luft-und Raumfahrt EV Braunschweig, 1963.
NASA TT F-10,391

Manual for Hovering Aircraft Regulator DYD 11 A and Damping Regulator DYD 12A for the EWR Aircraft Type 341/342.
GERMAN, rpt, Pflichtenheft-fur Schwebeflugregler DYD 11A und Dampungsregler DYD 12A fur die EWR Flugzeuge Typ 341/342. 41 p.
NASA TT F-10,262

Linearized Aerodynamic Theory of Rotor Blades (III) - Method for Solving Lifting-Line Equations, by T. Ichikawa.
JAPANESE, rpt, pp 1-43.
*ACSI J-1300
ID 2204057766

Brushes for Aircraft Electrical Equipment, by M. E. Kviryn Zuchowicz. 24 pp.
POLISH, per, Prace Instytut Lotnictwa, Warsaw, No 23, 1964, pp 55-62.
FTD-TT-65-1279

Air Lubricated Bearings, by M. E. Zofia Bohacka. 25 pp.
POLISH, per, Prace Instytut Lotnictwa, Warsaw, No 23, 1964, pp 63-72.
FTD-TT-65-1279

Scientific
Agriculture

Ecology and Classification of Vietnam Forest Vegetation, by Thai-Van-Trung.
RUSSIAN, rpt, Ekologiya I Klassifikatsiya Lesnoy Rastitel'nosti V'yetnama, 1962, 44p.
*ACSI J-1417
ID 2204062266

Shortcomings in the Utilization of Irrigated Lands, by A. Komarovskiy, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 36, Sept 1966, p. 31.
JPRS 39146

Measures for Safeguarding the Gathering of the Harvest and Procurement of Agricultural Products in 1966, 6 pp.
RUSSIAN, np, Sovetskaya Litva, 21 Jun 1966, pp. 1 and 3.
JPRS 38577

The Significance of Trace Elements in Conditions of Dry Farming on Chernozem Soils and Their Effect on the Physiological Processes which Determine the Drought - and Heat-Resistance of Plants, by M. Ya. Shkol'nik and N. A. Makarova,
RUSSIAN, per, Trudy Bot. Inst. Akad. Nauk SSSR, Ser 4, Vol XII, 1958, pp 23-73.
*CFSTI TT 67-51301

Dynamics of Soil Moisture after Application of Hydrated Peat, by F. A. Nalyshv,
RUSSIAN, per, Trudy Instituta Trofa Akademiya Nauk BSSR, No 8, 1959, pp 332-343.
*CFSTI TT 67-51311

Presowing Treatment of Maize Seeds with Solutions of Various Trace Elements, by S. Stasauskayte and M. Holsmanayte,
RUSSIAN, per, Trudy Lieturos TSR Mokslu Akad. Darbay Ser B, Vol IV, No 20, 1959, pp 181-192.
*CFSTI TT 67-51329

The Dynamics of the Decay of Vegetation Remains and Interaction of the Decay Products with the Forest Soil, by V. S. Shumakov,
RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Lesnogo Khoz-yaystva, Vol I, 1941, pp 19-128.
*CFSTI TT 67-51384

Scientific
Agriculture (Contd)

Soviet Agricultural Academy Discusses Patent Practices and Other Measures, 9 pp.
RUSSIAN, per, Vestnik Sel'skokhozyaystvennoy Nauki, No. 6, 1966, pp. 149-153.
JPRS 38522

Vegetation of Shrubby Plants on Tundra Mountains and on Lower Tundra at Bikskin - Imansk Watershed, by A. F. Pryalikhina,
RUSSIAN, per, Zhurnal Botanicheskaya, Vol XLIII, No 1, 1958, pp 92-96.
*CFSTI TT 67-51334

New Members and Corresponding Members of the Bulgarian Academy of Agricultural Sciences, 6 pp.
BULGARIAN, np, Kooperativno selo, 14 Oct 1966, p. 4.
JPRS 38520

A Study on the Significance of Table Fields and Strip Fields under the Drain and Ditch System in Low Flood Areas, by Wen Cho-ju and T'ang Hai-hsing, 20 pp.
CHINESE, per, Ti-li Hsueh-pao, Vol. 32, No. 2, 16 Jun 1966, pp. 131-139.
JPRS 38763

Peat-Preparation Production and Utilization in Agriculture, by M. Niklewski,
POLISH, per, Gospodarka Wodna, Vol XX, No 3, 1960, pp 141-144.
CFSTI TT 63-11363

Experiments with a Vertical Drainage Duct, Carried Out at the Agricultural Experimental Station at Wolica, by J. Ostrowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 4, 1960, pp 187-188.
CFSTI TT 63-11363

Example of an Amelioration Solution on a Strip Meadow, by S. Ziemnicki,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 283-284.
CFSTI TT 63-11363

Peats in the District of Karst Lakes of the Usciwers Group, by H. Okruszko and T. Churski, et al,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 285-286.
CFSTI TT 63-11363

Scientific
Agriculture (Contd)

Tree-Planting in the Off-Slope of Otmuchowo Dam and Its Working Conditions, by A. Zbikowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 287-288.
CFSTI TT 63-11363

The Agricultural Concept of the Hydrologic Research Station at Ursynow, by R. Radwan-Debski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 288.
CFSTI TT 63-11363

Design of Reverse Filters Protecting Low-Cohesive Soils, by W. Wolski,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 303-304.
CFSTI TT 63-11363

Causes of Sinking of Vistula Bed Bottom in the Warsaw Area, by Z. Kornacki,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 305-307.
CFSTI TT 63-11363

Erosion-Control Measures on a Farm Field at Neglinek, by S. Ziemnicki,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 333-336.
CFSTI TT 63-11363

Water Balance in the Low land, by K. Xebulak,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 351-353.
CFSTI TT 63-11363

Some Notes on the Discharge Coefficient in Water Discharge Over a Rounded Weir Crest, by K. Fanti,
POLISH, per, Gospodarka Wodna, Vol XX, no 8, 1960, pp 354-356.
CFSTI TT 63-11363

Soil Erosion in Czechoslovakia, by Holy Milos,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 359-363.
CFSTI TT 63-11363

The Remunerability of Artificial Drying of Herbage on the Laki Nowogardzkie State Farm in 1959, by Z. Zak,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 381-383.
CFSTI TT 63-11363

Scientific
Agriculture (Contd)

The Effect of Phosphate Fertilization on the Quantitative and Qualitative Composition of the Sward on Newly Established Meadow, by M. Falkowski and G. Karlowska,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 384.
CFSTI TT 63-11363

Penetration of Sea Water Into the Mouths of Polish Rivers, by A. Majewski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 427.
CFSTI TT 63-11363

Research on a Few Species of Grasses Grown for Seed in Mixtures with Birdsfoot Trefoil, by L. Doboszynski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 432.
CFSTI TT 63-11363

Ground-Water Salinity in Ciechocinek Lowland, by J. Hibner and M. Kucharski,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 434-439.
CFSTI TT 63-11363

Project for Irrigating the Jordan Valley, by S. Takuski,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 453-455.
CFSTI TT 63-11363

Film on Soil Deformation, by S. Hückel,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 471-472.
CFSTI TT 63-11363

Observations on the Effectiveness of Herbicide Derivatives of 2,4-D in Combating Dicotyledonous Weeds on Heavily Infested Peat Meadows, by J. Wisniewska,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 473-474.
CFSTI TT 63-11363

Changes in the Bottom of the Vistula River in Warsaw Area Viewed Against Variations in the Longitudinal Profile of the Middle Course, by M. Zielinska,
POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 477-481.
CFSTI TT 63-11363

Scientific
Agriculture (Contd)

Reclamation and Management of Kuwasy Peatlands, by H. Okruszko,
POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 480-484.
CFSTI TT 63-11363

The Principles of Reclamation and Utilization of Peatlands in the United States of America, by H. Okruszko,
POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 517-520.
CFSTI TT 63-11363

Water Balance of the Skewa River in the Gostynin County, by K. Debski,
POLISH, per, Gospodarka Wodna, Vol XX, No 12, 1960, pp 522-525.
CFSTI TT 63-11363

The Organization and Activities of the Vegetable Horticulture Institute, by Prof Dr. Emil Chroboczek, 7 pp.
POLISH, per, Nowe Rolnictwo, No 17, 1-15 Sept 1966, pp. 22-24.
JPRS 38588

Study on the Biology of Grain Germination Part I. Variability of the Germination Power and Energy of Diverse Varieties of Winter Wheat, by S. Lewciki and J. Mazurek, et al,
POLISH, per, Pamiętnik Pulawski, No 10, 1963, pp 129-148.
CFSTI TT 65-50344

Simmental Cattle Breeding in People's Democracies, by Dr. James Trautman, 6 pp.
POLISH, per, Przegląd Hodowlany, Vol. XXV, No 19, 1-15 Oct 1966, pp. 18-19.
JPRS 39128

Studies on Mycorrhizae of Some Foreign Coniferous Trees Acclimatized in Poland, by T. Dominik,
POLISH, per, Roczniki Nauk Rolniczych i Lesnych, Vol XXXVI, 1936, pp 84-112.
CFSTI TT 65-50360

Climate of the Szczecin District in the Aspect of Agricultural Needs, by Krzysztof Prądziś,
POLISH, per, Wydział, Wiadomości Zachodnie, 1961, 63 pp.
*CFSTI TT 67-56096

Scientific
Agriculture (Contd)

Outline of the Agricultural Climate of the Koszalin District, by Krzysztof Prawdzic, POLISH, per, Wydzial Nauk Przyrodniczo-Rolniczych Prace, Vol XII, No 1, 1962, 76 pp.
*CFSTI TT 67-56097

General Geography of Plants, by Wladyszaw Szafer, POLISH, bk, Zarys Historii Botaniki w Krakowie na tle Szesciu Wiekow Uniwersytetu Jagiellonskiego, 1964, 168 pp.
*CFSTI TT 67-56117

Activities of the Central Institute of Agricultural Research, by I. Staicu, 5 pp. RUMANIAN, per, Viata Economica, Vol 4, No 38, 23 Sept 1966, p. 13.
JPRS 38571

Jute.
VIETNAMESE, rpt, Cay Bo, 1965, pp 3-18.
ACSI J-0996
ID 2204052266

Astronomy & Astrophysics

Ephemeris Calculation of the Angular Velocity of a Satellite of the Earth by B. A. Firago, 9 pp. RUSSIAN, per, An SSSR, Astronomicheskii Sovet, No 32, 1963, pp 3-7. P100072466
FTD-TT-65-801

Photographic Method for Studying the Erratic Nature of Stellar Images, by I. P. Rozhnova, Yu. A. Sabinin, 10 pp. RUSSIAN, per, AK Nauk SSSR, Astron Sovet, Komissiya Pribor Novaya Tekh v Astron. Materialy Sovesh, 1963, pp 39-49. P100104366
FTD-TT-66-33

Certain Principles of Construction of Discrete Systems of Control for Azimuthal Astronomical Instruments, by S. V. Korotkov, V. A. Lyashnikov, 30 pp. RUSSIAN, per, AK Nauk SSSR, Astron Sovet, Komissiya Pribor Novaya Tekh v Astron. Materialy Sovesh, 1963, pp 8-38. P100104366
FTD-TT-66-38

Scientific
Astronomy & Astrophysics (Contd)

Control System for the 2.6-Meter Telescope, by N. S. Zhurkin, V. M. Konshin, 6 pp. RUSSIAN, per, AK Nauk SSSR, Astronomicheskii Sovet, Komissiya Priborostroyeniya, Novaya Tekhnika v Astronomii. Materialy Soveshchaniya, 1963, pp 13-16. P100104366
FTD-TT-66-38

Spectrograph with Photocontact Device to Observe Fogginess, by V. F. Yesipov, RUSSIAN, per, Astronomicheskii Sovet, Komissiya Priborostroyeniya, Novaya Tekhnika v Astronomii Materialy Soveshchaniya 1961 G, 1963, pp 165-170. P100086566
FTD-TT-65-1537

Experience in Using a Vacuum Chamber for Testing Accurate Mirrors of Astronomical Instruments, by V. A. Savin, RUSSIAN, per, Astronomicheskii Sovet, Komissiya Priborostroyeniya, Novaya Tekhnika v Astronomii Materialy Soveshchaniya 1961 G, 1963, pp 171-174. P100086566
FTD-TT-65-1537

A New Method in the Theory of Light Scattering, by V. V. Sobolev. RUSSIAN, per, Astron, Zhur, Vol XXVIII, 1951, pp 355-362.
NASA TT F-10,325

On the Representation of the General Solution of Problems of Three Bodies by the Conversion Series, by G. A. Merman. RUSSIAN, per, Bull Inst Teor Astron, Vol VI, No 10, 1958, pp 713-731.
*NASA TT F-10,477

Closed Paths of Collision in a Plane Circular Restricted Problem of Three Bodies, by G. A. Krasinskiy. RUSSIAN, per, Bull Inst Teor Astron, Vol IX, No 2, 1963, pp 154-167.
*NASA TT F-10,476

Radar Observation of the Planets, by B. I. Kuznetsov, I. V. Lishin and Z. G. Trunova, 19 pp. RUSSIAN, per, Elektrichestvo, No. 6, June 1966, pp. 1-7.
JPRS 38649

Scientific
Astronomy & Astrophysics (Contd)

Physics of the Solar System, by
A. A. Mikhailov.
RUSSIAN, rpt, Fizika Solechnoy Sitemy,
1964.
NASA TT F-342

New Determination of Masses of Meteor Bodies,
by I. N. Kovshun,
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol
VI, No 4, 1966, pp 717-725.
*NASA TT F-10690

Physics of the Solar System, Vol 3 of a
Course in Astrophysics and Stellar Astronomy,
by V. P. Vyazanitsyn, et al,
RUSSIAN, bk, Kurs Astrofiziki i Zvezdnoi
Astronomiy, 1964, 393 pp.
CFSTI TT 66-51022
NASA TT F-342

Non Adiabatic Injection of Plasma Into the L-2
Stellarator With $n=2$, by O.I. Fedyanin,
U.V. Kholkov, et al.
RUSSIAN, rpt, P.N. Lebedev Physical Institute,
Moscow, 1965, pp 1-29. P911139666
AEC NP-tr-1430-Draft

Meteoritics. Number 20, 1961,
Collection of Articles, by
Ye. L. Krinov, et al.
RUSSIAN, rpt, Proceedings of the 9th
Conference on Meteorites Organized by
the Committee on Meteorites of the USSR
Academy of Sciences, held in Kiev 2-4 June 1960,
pp 95-102; 103-113; 124-136; 172-177. 1961.
NASA TT F-10,447

The Path to the Stars. Collection
of Science-Fiction Works, by
K E. Tsolkovsky, 475 pp.
RUSSIAN, bk, Put' k Zvezdam, 1960,
pp 1-360.
FTD-MT-64-243

Problems of Astrometry, by Ye. P. Fedorov.
RUSSIAN, Bk, Voprosy Astrometriy, 1966.
*NASA TT F-454

Possibilities of Mossbauer Analysis of Fe-
states in Stone Meteorites, by L. K. Levskiy.
RUSSIAN, rpt, Vozmozhnosti Analiza Sostoyanii
Zheleza v Kamennykh Meteoritakh s Pomoshch'yu
Effekta Mossbauera, 1966, 11 pp.
*AEC

Scientific
Atmospheric Sciences

Inspection of a Meteorological
Network, by D. F. Mezdyurov, 357 pp.
RUSSIAN, bk, Inspektsiya Meteorologicheskoy
Seti, 1955, pp 1-316
FTD-MT-65-230

Noctilucent Clouds, by I. A. Khvostikov
Abastuman, 13 pp.
RUSSIAN, per, Priroda, No. 9, Sept 1966,
pp. 48-53.
JPRS 39032

Ball Lightning, by G. S. Teletov, 19 pp.
RUSSIAN, per, Priroda, No. 9, Sept 1966,
pp. 84-92.
JPRS 39032

Regular Variations of the Content of Electrons
in the Lower Part of Layer F₂ of the Ionosphere
at the Middle Latitudes, by L. A. Shchepkin,
RUSSIAN, rpt, Sibirskoye Otseleniye Sibir-
skiy Institut Zemnogo Magnetizma Ionosfery i
Rasprostraneniya Radiovoln, 1963, pp 66-74.
P100086366
FTD-MT-65-489

Program and Techniques of Atmospheric Turbu-
lence Research on Mountainous Helicopter
Routes, by p. A. Vorontsov,
RUSSIAN, per, Trudy Glavnaya Geofizicheskaya
Observatoriya, No 171, 1965, pp 20-31.
P100120566
AFCRL T-R-630

Some Results of Radar Sounding of the Tropo-
sphere and Tropopause, by K. S. Zhupakhin,
RUSSIAN, per, Trudy Glavnaya Geofizicheskaya
Observatoriya, No 177, 1965, pp 129-141.
P100124266
AFCRL T-R-629

IGY and IGC Data on Vertical Wind Shears in
Jet Streams Over the Southern USSR, by M. V.
Burkova and P. Z. Levina,
RUSSIAN, per, Trudy Sredne-Aziatskiy Nauchno-
Issledovatel'skiy Institut, No 19(34), 1964,
pp 26-37. P100120466
AFCRL T-R-612

Closing Address for the Symposium on Supple-
mentation and Modification of Weather Forecast-
ing Techniques, by Ch'eng Shun-shu,
CHINESE, per, Ch'i-Hsiang Hsueh-Pac, Vol XXXVI,
No 1, 1966, pp 4-9. P922157266
AFCRL Em-66-105(a)

Scientific
Atmospheric Sciences (Contd)

Methods of Medium-range Weather Prediction for the Months of February to June at the Chiang-chin County Weather Station, Szechuen Province, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 28-38. P922157266
AFCRL Emm-66-105(a)

The Use of Weather-Lores as a Tool for Long-and-Medium-Range Forecasting, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 45-53. P922157266
AFCRL Emm-66-105(a)

The Preparation of Lon-and-Medium-Range Precipitation Forecasts from Anterior Characteristics of various Lapse Intervals, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 54-57. P922157266
AFCRL Emm-66-105(a)

Long-and Medium-Range Forecasting Based on Farm Lore, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 66-76. P922157266
AFCRL Emm-66-105(a)

A Preliminary Investigation on the Prediction of Widespread Rain, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 82-88. P922157266
AFCRL Emm-66-105(a)

A Method for the Prediction of Early Mai-yu from Group Experience, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 89-97. P922157266
AFCRL Emm-66-105(a)

Single-Station Techniques for the Prediction of Typhoons, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 110-116. P922157266
AFCRL Emm-66-105(a)

The Relationship Between Precipitation and the Evolution of Cloud Systems During the Transitional Season from Spring to Summer, CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXVI, No 1, 1966, pp 117-127. P922157266
AFCRL Emm-66-105(a)

Scientific
Atmospheric Sciences (Contd)

A Study of the Microphysical Characteristics of Precipitation Processes from Clouds and Fog in China, CHINESE, rpt, Institute of Geophysics and Meteorology, Academia Sinica, No 10, 1965, 98 pp. P922157166
AFCRL Emm-66-102(a)

Problems on the Macroscopic Characteristics of Convective Clouds in China, CHINESE, rpt, Institute of Geophysics and Meteorology, Academia Sinica, No 11, 1965, 94 pp. P922157066
AFCRL Emm-66-101(a)

Statistical Methods in Climatology, by C. S. Yao, CHINESE, rpt, The Science Press, Peking, China, 1965, 246 pp. P922157366
AFCRL Emm-66-109(a)

Problems on Environmental Adaptation of Atmospheric Motions, by Yeh Tu-cheng and Li Mai-tsun, CHINESE, rpt, The Science Press, Peking, China, 1965, 126 pp. P922157466
AFCRL Emm-66-110(a)

Report on the State of Investigations into UV-Backscatter as an Aid in Early Fog Warning, by Frank Frungel, W. Knutel. 11 pp. GERMAN, rpt, Ueber den Bisherigen Stand der Forschungsarbeiten bezuglich der Benutzung des UV-Backscatter als zusatzliches Element fur Nebelvorwarnung, P500106766
Dept of Navy/O NI TR No 2232

Frequency of Air Temperature Inversions Observed at Krynica-Spa in the period 1956 to 1960, by Helena Boniecka-Zolcik, POLISH, per, Przeglad Geofizyczny, Vol XVIII (16), No 1-2, 1963, pp 37-44. CFSTI TT 65-50391

Meteorological Conditions Promoting the Development of Storms in Different Air Masses, by Maria Stopa, POLISH, per, Przeglad Geofizyczny, Vol IX(8), No 1, 1964, pp 67-75. CFSTI TT 65-50384

Scientific
Atmospheric Sciences (Contd)

Activities of the Astronomic Observatory of the Rumanian Academy of Sciences, by Nicolae I. Dinulescu, 8 pp.
RUMANIAN, per, Studii si Cercetari de Astronomie, Vol 11, No 2, 1966, pp. 193-199.
JPRS 38819

Behavioral & Social Sciences

Possible Uses of Teaching Machines, by Vasil Metev,
RUSSIAN, per, Fiziko Matematicheskogo Spisaniye, Vol VIII, (41), No 2, 1965, pp 121-135.
*FTD-HT-66-752

Education of a Rocket Staff, by M. Lovkov, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, June 26, 1965, p 3. TN6000170
FTD-TT-65-1986

A Search for Information on Sensual Codes, by L. E. Pshenichnaya, E. F. Skorokhodko, 8 pp.
RUSSIAN, per, Nauchno-Tekh Informatsiya, No 6, 1964, pp 25-26. TP5002818-
FTD-TT-65-1880

Methods of Selecting a Multivalent Answer From Associative Memory, by V. F. Rudakov, Ye. I. Il'yashenko, 35 pp.
RUSSIAN, per, Nauchno-Tekh Informatsiya, No 6, 1964, pp 27-36.
FTD-TT-65-1880

Organization of the Scientific and Technical Information Service in the USSR, by L. Lopatkin, 8 pp.
RUSSIAN, per, Nauka i Tekhnika, No 6, 1966, pp 10-12.
JPRS 39124

Effects of Chemicals on Mental Processes Described, by I. Lapin and Yu. Muller, 10 pp.
RUSSIAN, per, Nauka i Tekhnika, No. 8, Aug 1966, pp. 10-13, 17.
JPRS 38959

Computers and Thought, by Napalkov and Yu. V. Orfeyev,
RUSSIAN, per, Novye Knigi za Rubozhom, No 1, 1965, pp 90-98.
RAND

Scientific
Behavioral & Social Sciences (Contd)

Application of Computers in Historical Science (For Analysis of Masses of Historical Facts), by V. A. Ustinov, 187 pp.
RUSSIAN, bk, Primeneniye Vychislitel'nykh Mashin v Istoricheskoy Nauke, 1964, pp 1-231.
FTD-MT-65-264

The Problem of Longevity of Documents and Paper,
RUSSIAN, bk, Problema Dolgovechnosti Dokumentov i Bumagi, 1964, 125 pp.
*CFSTI TT 67-51400

On an Inverse Problem in the Theory of Information, by V. Ya. Rozenberg, N. A. Rubichev.
RUSSIAN, per, Probl. Peredachi Informatsii, Vol 2, No 2, 1966, pp 76-77.
Dept of Navy Tr 5020
APL/JHU T-1945

Technical Cybernetics Problems of Control and Information Problems of Soviet Science, by V. A. Trapeznikov and A. A. Kharkevich, 100 pp.
RUSSIAN, bk, Tekhnicheskaya Kibernetika, Problemy Upravleniya i Informatsii - Voprosy Sovetskoy Nauki, 1966, 104 pp.
JPRS 39098

Pursuit of Cybernetics and Systems Analysis Urged, by Yu. Filatov, 5 pp.
RUSSIAN, per, Tekhnika-Molodeshi, No 6, 1966, pp. 1-3.
JPRS 38775

Bionics and Control Systems, by V. Sokolov, 11 pp.
RUSSIAN, per, Tekhnika i Vooruzheniya, No. 10, 1966, pp. 64-71.
JPRS 38960

Theory, Experiment, Practice, by P. L. Kapitsa, 47 pp.
RUSSIAN, bk, Teoriya, Eksperiment, Praktika, Series 9, No 5, 1966, pp 1-47.
*FTD-MT-67-17

The Physico-Chemical Modeling of Information and Thought Processes, I. Thermodynamics of Information Processes, by N. I. Kobosev, 23 pp.
RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol XL, No 2, Feb 1966, pp. 281-294.
JPRS 38760

Scientific
Behavioral & Social Sciences (Contd)

The Physico-Chemical Modeling of Information and Thought Processes, II. Thermodynamics of Thought Processes, by N. I. Kobosev, 16 pp. RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol XL, No 4, Apr 1966, pp. 784-794. JPRS 38760

An Extension of the Logical Possibilities of Algol-60 Language, by V. P. Gladun and A. A. Letichevskiy, et al, RUSSIAN, per, Zhurnal Vychislet'noy Matematiki i Matematicheskoy Fiziki, Vol V, No 2, 1965, pp 369-372. *FTD-HT-67-10

General Purpose Digital Control Computer, by B. M. Kagan, et al, RUSSIAN, Patent No 170,218, 9 Apr 1965. *FTD-HT-67-21

A Memory Unit, by M. S. Lyubchanskiy, RUSSIAN, Patent No 178,167, 20 Jul 1964. *FTD-HT-67-5

A Comparison of the Cooperation of Signal Systems by the Method of Laboratory Language and Typological Questionnaire, by A. Medek, CZECH, per, Acta Universitatis Palackianae Olomucensis Facultatis Medicae, Vol XXXI, 1962, pp 211-216, *ACSI J-1594 ID 2204002167

Physical and Perceptual Identifications of Czech Vowels, by B. Borovickova. 17p. CZECH, per, Slaboproudy Obsor, Vol 25, No 4, 1964, pp 202-206. P 100099366 FTD-TT-65-368

Biological & Medical Sciences

Eastern Black-Bellied Sandgrouse, by G. Demont'ev, RUSSIAN, rpt, Dept of Inter SH211 E82 No 581

Contributions to the Knowledge of the Natural Enemies of the Columbatz Fly, by N. Sarnov, RUSSIAN, per, Arch Ministrast Poljoprivr, Vol V, No 11, 1938, pp 106-115. HEW-NIH-6-49-66

Scientific
Biological & Medical Sciences (Contd)

Overcoming Unfavorable Emotions, by K. Iseliani, Yu. Smirnov. RUSSIAN, per, Aviats i Kosmonaut, No 9, 1966, pp 68-70 *NASA TT F-10,606

Metabolic Rate and Duration of Life of Drosophila. I. Introductory Remarks and Review of the Literature, by A. P. Shcherbakov. RUSSIAN, per, Arkh Biologicheskikh Nauk, Vol XXXVIII, No 3, 1935, pp 639-650. *NASA TT F-10,479

Metabolic Rate and Duration of Life of Drosophila. II. The Longevity and Metabolic Rate at Different Population Densities, by A. P. Shcherbakov. RUSSIAN, per, Arkh Biologicheskikh Nauk, Vol XXXVIII, No 3, 1935, pp 651-655. *NASA TT F-10,478

Isolation and Properties of a RNA-DNA Complex From Escherichia Coli Cells, by N. S. Vladychenskaya, V. S. Tongur. RUSSIAN, per, Biokhimiya, vol XXXI, No 3, 1966, pp 484-490. NASA TT F-10,368

Amino Acid Incorporation into Protein by Rabbit Spleen and Lymphnode Microsomes, by R. S. Nezlin. RUSSIAN, per, Biokhimiya, Vol XXXI, No 3, 1966, pp 516-520. NASA TT F-10,354

Biological Effects of High-Frequency Electromagnetic Waves, by K. Marha, RUSSIAN, rpt, Biologické Účinky Elektromagnetických Vln i Vysoké Frekvenci. Pracovní Lekství, Vol XV, No 9, 1963, pp 387-393. ATD 66-92

On the Problem of Changes in Physico-Chemical and Biological Properties of Pilots' Saliva During Rolling, Turning, and Hypoxia, by V. V. Yefimov, B. V. Tolokannikov, et al, 8 pp. RUSSIAN, per, Dyulleton' Eksperimental'noy Biologii i Meditsiny, Vol XIII, No 5, 1942, pp 44-47. P100073866 FTD-TT-65-1645

Scientific
Biological & Medical Sciences (Contd)

On the Problem of the Filtration Feeding Method of Bithynia Tentaculata L. and Valvata Piscalis Muller, by E. Tsikhon-Lukanina, RUSSIAN, per, Byull. Inst. Biol. Vodokhr., No 10, 1961, pp 28-30.
Dept of Inter
SH211 E82 No 548

Lifetimes of UV Fluorescence in the Excited State in Aromatic Aminoacides, by L. F. Gladchenko, et al, RUSSIAN, per, Dokl Akad Nauk BSSR, Vol IX, No 10, 1965, pp 647-650.
HEW-NIH-12-11-66

Endurance of Extremal Acceleration Increased as a Result of Exposure to Ionizing Radiation, by B. I. Davydov. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXVIII, No 3, 1966, pp 691-693.
NASA TT F-10,349

Optimal Temperature Regimes for Thermophilic Chlorella Investigated, by I. V. Smirnov, 5 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 167, No. 6, 1966, pp. 1405-1408.
JPRS 38731

Certain Peculiarities in Gas-Metabolism and Conditioned Reflectory Activity in Animals Under Conditions of Prolonged Stay in a Heliooxygenic Medium, by G. V. Troshikhin. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CLXX, No 6, 1966, pp 1480-1482.
*NASA TT F-10,617

Variations Observed in the Process of Respiration of Vegetable Tissue Under Gamma Radiation, by I. Petrash, L. V. Metlitskii. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXX, 1966, pp 711-713.
*NASA TT F-10,652

The Application of Fluorescent Microscopy to the Study of Microorganisms Attached to Various Surfaces, by D. G. Zhyagintsev. RUSSIAN, per, Doklady Nauchnyye Vysshey Shkoly Biologicheskoye Nauki, No 3, 1965, pp 173-177.
*ACSI J-1293
ID 2204057166

Scientific
Biological & Medical Sciences (Contd)

Electrosleep and Electroanesthesia (Electromarcosis). RUSSIAN, pamph, Elektrosn i Elektroanesteziya (Elektronarkoz), 1966, pp 1-270.
*JPRS/NY 13571

Some Aspects of the Action of Some Pharmacological Substances in Uranium Injury, by A. M. Ivanitskiy. RUSSIAN, per, Farmakologiya Toksikologiya, Vol 25, 1962, pp 631-634.
*AEC ORNL-tr-1535

Philosophical Problems of Modern Biology. 784p RUSSIAN, bk, Filosoficheskiye Problemy Moderny Biologii, 1963, 470p. F100120066-V
FTD-TT-65-1231

Duality in the Function of the Parotid Glands in Humans, by A. I. Vasil'yev, 16 pp. RUSSIAN, per, Fiziol Zhur SSSR, Vol XL, No 1, 1959, pp 24-31. TP6000775
FTD-TT-65-1996

Chance of Blood Insulin Activity in Healthy People at Administration of Glucose, by G. G. Alekseyeva, et al, RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol LII, No 6, 1966, pp 746-749.
HEW-NIH-12-9-66

Determination of Extracellular Water in Different Tissues, According to the Inulin and Chlorine Distribution in Them, and Employment of the Data Obtained for a Calculation of the Intracellular Concentration of Electrolytes, by M. S. Iarenko, et al, RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol LII, No 6, 1966, pp 765-770.
HEW-NIH-12-8-66

Oxygen Pressure in Vivo of Various Muscles in Small Animals, by L. A. Isaakian, RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol LII, No 6, 1966, pp 771-775.
HEW-NIH-12-17-66

Analog Computer for Analyzing Electroencephalograms, by Ye. Ya. Voytinskiy and V. A. Pryanishnikov, RUSSIAN, per, Fiziologicheskii Zhurnal SSSR imeni I. M. Sechenova, Vol LII, No 6, 1966, pp 777-781.
ATD 66-109

Scientific
Biological & Medical Sciences (Contd)

Autonomic and Cardiovascular Disorders During Chronic Exposure to Super-High Frequency Electromagnetic Fields, by E. A. Drogichina and N. M. Konchalovskaya, et al, RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1966, pp 13-17.
ATD 66-124

Clinical and Experimental Investigation of the Grain Dust Effect On the Respiratory Organs, by S. A. Stepanov, Ye. A. Mavrina, 8 pp. RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, Vol X, No 8, 1966, pp 8-13.
JPRS 38927

Clinical Aspects and Treatment of Infiltrative Pulmonary Tuberculosis in Patients With Siderosilicosis, by V. V. Malov, A. G. Shumakov, 8 pp. RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, Vol X, No 8, 1966, pp 13-17.
JPRS 38927

Functional State of the Adrenal Cortex In Patients With Chronic Beriliosis Treated With Glucocorticoid Preparations, by A. A. Orlova, V. V. Osarova, 7 pp. RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, Vol X, No 8, 1966, pp 17-21.
JPRS 38927

The Causes of Different Individual Sensitivity to Methemoglobin Producers and Methods of Their Identification, by L. E. Gorn, 8 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 21-25.
JPRS 38927

On the Mechanism Underlying Development of Hemorrhagic Syndrome in Chronic Benzene Poisoning, by L. A. Zorina, T. M. Sukharevskaya, 10 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 26-31.
JPRS 38927

On the Pathogenesis of Erythrocytopenia in Chronic Lead Poisoning, by V. V. Sokolov, N. A. Chalins, 9 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 31-36.
JPRS 38927

Scientific
Biological & Medical Sciences (Contd)

Difference Diagnosis of Pneumococcoses and Certain Disseminated Pulmonary Processes, by K. P. Molokanov, N. M. Knochlovskaya, 12 pp. RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, Vol X, No 8, 1966, pp 3-8.
JPRS 38927

Some Problems of Clinical Aspects and Treatment of Acute Intoxications With Organophosphorus Insecticides (OPT), by Ye. A. Luzhnikov, 10 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 36-42.
JPRS 38927

On Changes in the Adrenal Cortex Function During Silicosis, by S. D. Kazakhov, 7 pp. RUSSIAN, per, Gig Truda i Prof Zabol, Vol X, No 8, 1966, pp 43-46.
JPRS 38927

Functional State of the Adrenal Cortex in Chronic Intoxication With Tetraethyl Lead, by B. F. Murashov, 5 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 46-47.
JPRS 38927

Basic Qualitative Indices of the Incidence of Silicosis in Some Mines of Krivoy Rog Iron Ore Basin, by V. F. Shpinov, 4 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 48-49.
JPRS 28927

The Prevalence of Chronic Bronchitis Among Urban Population of Shale-Producing Region in the Estonian SSR, by I. P. Maripuu, B. M. Sharnardin, 7 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 49-53.
JPRS 38927

On the Content of Glucoproteins in the Blood Serum of Pneumococcosis Patients, by M. A. Fanknovi, E. A. Polrovskaya, 3 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 53-54.
JPRS 38927

Two Cases of Acute Poisoning With Cadmium Compounds at a Plant, by L. P. Shabalina, 4 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 54-55.
JPRS 38927

Scientific
Biological & Medical Sciences (Contd)

Conference of Young Scientific Workers at the Institute of Labor Hygiene and Occupational Diseases of the Academy of Medical Sciences USSR, by V. I. Mogilyantsova, 4 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 56-57. JPRS 38927

Scientific Session of the Donetsk Institute of Labor Hygiene and Occupational Diseases, by A. O. Mavkatikyan, 3 pp. RUSSIAN, per, Gig Trud i Prof Zabol, Vol X, No 8, 1966, pp 57-58. JPRS 38927

Hormones and the Reproductions of Cells, by O. I. Epifanova, RUSSIAN, bk, Gormony i Razmnozhenie Kletok, 1965, 240 pp. *CFSTI TT 67-51401

Introduction to Medical Cybernetics, by V. V. Parin, R. M. Bayevskiy, RUSSIAN, rpt, Izdatel'stvo Meditsina, Moscow, 1966, 298 pp. *NASA TT F-459

Radiation Phenomena in Ion Crystals, by K. Shvarts, 15 pp. RUSSIAN, per, Iz Ak Nauk LATSSR, No 4, 1964, pp 30-37. TP6000444 FTD-TT-65-1734

Comparative Study of The Effect of the pH on Spectral-Luminescent Properties of Porphyrins and Chlorines, by T. I. Strelkova, et al, RUSSIAN, per, Izv Akad Nauk SSSR, Vol XXIX, No 8, 1965, pp 1374-1377. HEW-NIH-12-29-66

Luminescence Methods in the Study of the Structure of Biopolymers, by A. L. Erusalimskiy, RUSSIAN, per, Izv Akad Nauk SSSR Fiz, Vol XXIX, No 8, 1965, pp 1431-1438. HEW-NIH-12-18-66

The Application of the Bactericidal Effect of Ultraviolet Radiation to Purification of Drinking Water, by V. F. Sokolov. RUSSIAN, per, Izv Akad Nauk SSSR, Otd, Tekh, Nauk, 1951, pp 360-368. P911143766 ABC BNL-tr-95

Scientific
Biological & Medical Sciences (Contd)

The Effects of Combined Space Flight Factors on Some Bodily Functions, by G. M. Frank, N. N. Livshits, M. A. Arsen'yeva, Z. I. Apanasenko, L. A. Belyayeva, A. V. Golovkina, V. Ya. Klimovitskiy, M. A. Kusnetsova, L. D. Luk'yanova, and Ye. S. Meysnerov, 24 pp. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Ser. Biol., No 5, Sept 1966, pp. 625-642. JPRS 39159

Vitamin C, Carotin, and Tanning Substances of Quince, by Madzhid Bashir Al'-Asvad. RUSSIAN, per, Izvestiya VUZ Pishchevaya Tekhnologiya, No 2, 1966. *ACSI J-1461 ID 2204064266

The Influence of Irradiation on the Technological Properties of Potatoes, by R. T. Shalinova. RUSSIAN, per, Konservnaya i Ovoshchesushil'naya Promyshlennost', No 4, 1966, pp 31-35. *ACSI J-1372 ID 2204060566

Scientific Session on Vitamins in Budapest, by F. Balla. RUSSIAN, per, Konservnaya i Ovoshchesushil'naya Promyshlennost', No 4, 1966, pp 4-43. *ACSI J-1370 ID 2204060366

Concerning the Character of Microbiological Spoilage of Fresh Fruits and Vegetables Processed with Ionizing Rays, by S. V. Silayeva. RUSSIAN, per, Konservnaya i Ovoshchesushil'naya Promyshlennost', No 5, 1966, pp 33-38. *ACSI J-1347 ID 2204059166

The Cerebral Cortex and the Function of the Vestibular Apparatus, by E. Sh. Ayrapat'yants, V. A. Kislyakov, 49 pp. RUSSIAN, per, Kora Bol'shikh Polushariy i Funktsiya Vestibulyarnogo Apparata, Ak Nauk SSSR, 1962, pp 1-4, and 609-619. P16000547548 FTD-TT-66-30

Early Post Radiation Reactions and their Modification by Chemical Means, by A. M. Dancowicz, 18 pp. RUSSIAN, per, Kosmos - Seria A(Biologia) No 1, 1964, pp 23-31. P100073966 FTD-TT-65-1650

Scientific
Biological & Medical Sciences (Contd)

Reports Presented at Soviet Conference on Space Biology and Medicine, by A. V. Lebedinskiy, Yu. G. Nefedov and I. M. Khasen, 144 pp.

RUSSIAN, rpt, Materialy Konferentsii po Kosmicheskoy Biologii i Meditsine, 10-12 noyabrya 1964, 1966, pp. 1-150.
JPRS 38596

0-21 Olfactometer for Comparative Tests for Repellents, by A. A. Potapov, RUSSIAN, per, Med Parazitol Parazitarn. Bolezni., Vol XXXV, No 1, Jan-Feb 1966, pp 69-73.
Dept of Navy 5060 / ONI tr-2265

Microbiological Corrosion, by Blahnik and Valerie Zanova, RUSSIAN, rpt, Mikrobiaalni Koroze, Praha, 1963, pp 49-62, 141-167, 181-215.
P100127966-V
FTD-TT-65-1641

Resistance of Certain Strains of Microorganisms to Ultra-violet Irradiation, by A. I. Zhukova and V. Kh. Kozlova, RUSSIAN, per, Mikrobiologiya, Vol XXXV, No 2, 1966, pp 302-306.
*NASA TT F-10,720

Experiments in Neurophysiology, by Aleksey Adzhubey, 9 pp.
RUSSIAN, per, Moskva, No. 10, 1966, pp. 158-163.
JPRS 38993

Changes of Several Physical-Chemical Indices of Meat During Storage at 2 - 5° C, by M. Gabriel'yants, RUSSIAN, per, Myasnaya Industriya, No 2, 1966, pp 41-43.
*ACSI J-1345
ID 2204058966

Feedback in a Community of Organisms, by G. Sabardina, 5 pp.
RUSSIAN, per, Nauka i Tekhnika, No. 3, Aug 1966, pp. 2-5.
JPRS 38959

Olfactory Sense and Its Simulation by Modeling, by R. M. Masitova, V. M. Okhotskaya and B. I. Puchkin, 12 pp.
RUSSIAN, bk, Obonvayniye i Yego Modelirovaniye, 1965, pp. 106-114 and 119.
JPRS 38994

Scientific
Biological & Medical Sciences (Contd)

The Transformation of Human Metabolic Products and Products of a Biological Complex During the Recirculation of Substances in Small, Closed Spaces, by V. I. Yazdovskiy, et al.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress held in Madrid 9-15 October 1966.
NASA TT F-10,405

The Effect of Prolonged Acceleration on Gas Exchange and Resistance of Rats to Hypoxia, by A. A. Gyurdzhian.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress Held in Madrid, 9-15 October 1966.
NASA TT F-10,406

An Information Model of the Extravehicular Dynamics of Cosmonaut Body Movements and Spatial Orientation, by V. A. Popov, et al.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress Held in Madrid, 9-15 October 1966.
NASA TT F-10,407

Modelling Energy Exchange Processes in Ecological Systems, by A. B. Rubin.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress held in Madrid 9-15 October 1966.
NASA TT F-10,408

Problems of Pharmacology in Space Medicine, by V. Ye. Belsy, et al.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress Held in Madrid, 9-15 October 1966.
NASA TT F-10,410

Fundamentals of Human Biomechanics in an Unsupported Situation, by V. I. Stepantsov, A. V. Yeregin.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress held in Madrid, 9-15 October 1966.
NASA TT F-10,411

The Problem of Prolonged, Autonomous Human Existence in a Space Suit, by A. M. Genin, L. G. Golovkin.
RUSSIAN, rpt, Paper Presented at the 17th International Astronautical Congress, 9-15 October 1966.
NASA TT F-10,413

Scientific
Biological & Medical Sciences (Contd)

Physiological Measurements in Space,
Their Principles and Methods, by
V. V. Parin, 20 pp.
RUSSIAN, rpt, Paper Presented at the
17th International Astronautical Congress
held in Madrid, 9-15 October 1966.
*NASA TT F-10,678

Oxygen Balance in an Organism During
Prolonged Acceleration, by A. S. Barer,
10 pp.
RUSSIAN, rpt, Paper Presented at the
17th International Astronautical Congress
held in Madrid, 9-15 October 1966,
*NASA TT F-10,682

Comparative Analysis of the Effect
of Gravitational Stress and Hypoxia on
Oxygen Tension in Brain Tissues, by
B. M. Savin.
RUSSIAN, per, Patol Fiziol i Obshch Patol,
Vol LXI, 1966, pp 19-23.
NASA TT F-10,288

Fibrinolytic Activity of the Blood in
Hemophilia of Children, by T. G. Flakhta.
RUSSIAN, per, Pedistriia, Vol 5, 1965,
pp 71-75.
HEW NIH 6-8-66

Peripheral, or Local Reflexes, by
Nikhal Vasil'yevich Sergiyevskiy.
RUSSIAN, bk, Perfericheskiye, Ili Nestnyye,
Refleksy, Moscow, 1964, pp 1-200.
*FTD-HT-66-685

A New Active Agent in the Treatment of Acute
Leukemias: Cytosine Arabinoside, by J. Bernard,
RUSSIAN, per, Presse Med, Vol LXXIV, No 16,
1966, pp 799-802.
HEW-NIH-7-23-66

Prevention of Posttransfusion Complications,
by A. Filatov,
RUSSIAN, per, Prbl. Genet, Vol XI, No 3, 1966,
pp 3-7.
HEW-NIH-6-39-66

Immediate Tasks and Problems in the Preservation
of Blood, by Professor F. R. Vinograd-Finkel',
6 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya
Krovi, No 9, 1966, pp. 3-6.
JPRS 38977

Scientific
Biological & Medical Sciences (Contd)

Influence of Physical Exercises on the Rest-
oration of Motor Functions in Middle-Aged and
Elderly Persons Under Polyclinic Conditions,
by A. N. Trankvillitati,
RUSSIAN, per, Problems of Gerontology and
Geriatrics, 1962, pp 229-233.
HEW-NIH-11-11-66

Meeting of the Yakut Scientific and Research
Institute of Tuberculosis, by I. A. Vasil'yev
and M. F. Shepetov, 7 pp.
RUSSIAN, per, Problemy Tuberkuleza, No. 9,
1966, pp. 82-84.
JPRS 39033

On the Development of X-Ray Injuries
to the Skin, by L. A. Afrikanova.
RUSSIAN, rpt, Proceedings of the
All-Union Conference of Pathological
Anatomists, 1954, pp 332-337.
*NASA TT F-10,630

Conferece on Fish Diseases, Leningrad 1957,
RUSSIAN, rpt, Proceedings of the Conference
on Fish Diseases, 1963, 236 pp.
Dept of Inter
SH211 E82 No 521

Fishway Structures in the Soviet Union, by Z. M. Kipper
and I. V. Mileiko,
RUSSIAN, bk, Rybopropusknye Sooruzheniya Sovetskoy
Soyuz, 1962, 70 pp.
*CFSTI TT 67-51266

Data on the Structural Organization of the
Microglia, by A. L. Mikheladse, et al.
RUSSIAN, rpt, IN; Sovremennye Problemy Deistal'
nosti i Stroeniya Tsentral'noi Nernvnoi Sistemy,
16. Tbilisi, Akad Nauk Gruz SSR, 1965, pp 191-197.
HEW NIH 6-1-66

Specific Poliomyelitis Prophylaxis, by
Konstantin Mikhaylovich Sinyak, 24 pp.
RUSSIAN, bk, Spetsificheskaya Profilaktika
Poliomyelita, 1964, pp. 1-31.
JPRS 38732

Handbook of Microbiological Diagnosis of
Infectious Diseases, by K. I. Matveyeva,
M. I. Sokolov. 1126p
RUSSIAN, bk, Rukovodstvo po Mikrobiologiches-
koy Diagnostike Infektsionnykh Bolesny, 1964,
683p. P 100119966-V
FTD-TT-65-1213

Scientific
Biological & Medical Sciences (Contd)

Hit Region Theory and Linear Transfer (LET).
1. Survival Rate Without Influence of the Time
Factor, by K. Gunther, et al.
RUSSIAN, per, Studia Biophysica, Vol 1, No 1,
1966, pp 25-36.
*AEC LB/G/2500

A new Method for Testing Direct Pulp-
Capping Media, based on the use of Rat
Incisors as Experimental Models, by
A. Oberstyn.
RUSSIAN, per, Szasz Stomat, Vol 18, No 3,
1965, pp 214-220.
HEW NIH 6-7-66

Epidemiologic Characteristics of Asian Tick
Rickettsiosis in the Central Raions of the
Maritime Krai, by K. V. Legkodimova,
RUSSIAN, per, Tr Inst Epidem Paster, Vol XXV,
1963, pp 170-177.
HEW-NIH-12-30-66

Experiment of the Use of Radioactive Isotopes
to Mark Ornithodoros Papillipes Ticks, by
A. Yu. Samostrel'skiy, et al,
RUSSIAN, per, Tr Inst Epidem Paster, Vol XXIX,
1966, pp 86-89.
HEW-NIH-12-31-66

Nitrogen and Mineral Cycles in Forests, by
N. P. Remezov and L. N. Bykova, et al.
RUSSIAN, per, Trudy Instituta Lesa, Akademiya
Nauk SSSR, Vol XXIV, 1955, pp 167-194.
CFSTI TT 66-51125

Geographical Distribution of Bathypelagic
Fishes of the Family Myctophidae in the
Pacific Ocean, by Theodor S. Rass,
RUSSIAN, per, Trudy Okeanologii, Vol XLI,
1960, pp 146-152.
Dept of Inter
SH211 E82 No 546

Effect of Aerial Spraying on Parasites
of the Siberian Silkworm, by G. I. Galkin.
RUSSIAN, per, Trudy SIBNILKHE, No 2,
1961, pp 42-47.
*FTD-HT-66-705

The Biology and Fishery of the Sprat in the
Northern Part of the Baltic, by I. Kazanova,
RUSSIAN, per, Trudy WNIRO, No 42, 1960, pp
84-98.
Dept of Inter
SH211 A422 No 38

Scientific
Biological & Medical Sciences (Contd)

Reports on Soviet Research in the Field of
Bionics, by A. I. Prokhorov, 129 pp.
RUSSIAN, rpt, XXII Vsesoyuznaya Nauchnaya
Sessiya, Posvyashchennaya Dnyu Radio. Doklady
Sektzii Bioniki, 1966, pp. 1-135.
JPRS 38716

Carotene Content in Dunaliella Salina
TEOD. Algae Under Conditions of
Laboratory Cultivations, by I. G. Drokova,
et al.
RUSSIAN, per, Ukr Bot Zh, Vol XXI, No 5,
1964, pp 44-49.
NASA TT F-10,433

Skin Disorders in Pringle-Bourneville Disease,
by L. P. Tsyrumov,
RUSSIAN, per, Vestn Derm Vener, Vol XXXVII,
1963, pp 49-52.
HEW-NIH-12-6-66

A Study of the Need of Two Species
of Dunaliella Algae for Mineral And
Organic Components of the Medium,
by Ye. S. Mil'ko
RUSSIAN, per, Vestn Mosk Univ Ser VI:
Biol Pochvoved, Vol I, 1962,
pp 18-24.
NASA TT F-10,455

Histologic Changes in the Inner Ear of
Animals Exposed to X-Irradiation, by
N. I. Ivanov.
RUSSIAN, per, Vestn Oto-Rino-
Laringologii, Vol XVIII, 1957, pp 78-83.
NASA TT F-10,497

Changes in the Peripheral Division
of the Auditory Analyser in Acute Radiation
Sickness, by M. Ya. Ebslov.
RUSSIAN, per, Vestn Oto-Rino-Laringologii,
Vol XI, No 2, 1958, pp 29-35.
NASA TT F-10,361

Physical Nature of Exploitation
Limitations by A. M. Tarasenkov, 12 pp.
RUSSIAN, per, Vestnik Protivovozdushnoy
Oborony, No 5, 1964, pp 45-48.
FI00119766
FTD-TT-65-1634

Scientific
Biological & Medical Sciences (Contd)

The Storage Lakes of the USSR and Their Importance for Fishery, by P. V. Tyurin, RUSSIAN, bk, Vodokhranilishcha SSSR i Ikh Rybokhozyaystvennoe Znachenie, 1961, 243 pp. CFSTI TT 66-51056

Pyrimidine Nucleoside Phosphorylases in Cells of Human Blood in the Normal and in Leukoses, by I. S. Lukanova, et al, RUSSIAN, per, Vop Med Khim, Vol XII, No 1, 1966, pp 72-78. HEW-NIH-11-16-66

Relative Biological Effectiveness of Various Types of Radiation, by M. P. Domshlak. (Editor) RUSSIAN, bk, Voprosi Obshchey Radiobiologii, 1966, pp 215-254. Table of Contents, pp 303-304. *JPRS/NY 13582

Effect of Ribonuclease on Tumor Growth (in experiment), by S. E. Manoilov, RUSSIAN, per, Vop Onkol, Vol XII, No 1, 1966, pp 64-69. HEW-NIH-7-22-66

A Study of the Problem of Carcinogenic Action of Drugs, by N. P. Napalkov and L. M. Shabad, 8 pp. RUSSIAN, per, Voprosy Onkologii, No. 10, 1966, pp. 3-8. JPRS 39039

Amino Acid Composition of the Blood Serum Proteins in Patients with Stomach Cancer, by V. R. Savran, 9 pp. RUSSIAN, per, Voprosy Onkologii, Vol XII, No. 10, 1966, pp. 30-35. JPRS 39039

Problems Facing the Science of Nutrition in the Light of the Resolutions Adopted by the XXIII CPSU Congress, 7 pp. RUSSIAN, per, Voprosy Pitaniya, Vol XXV, No. 4, 1966, pp. 3-7. JPRS 38713

Distribution of ^{35}S -Oxythiamine in the Tissues with Simultaneous Administration of Some Derivatives of Thiamine or Its Antimetabolites, by Yu. M. Ostrovskiy, 9 pp. RUSSIAN, per, Voprosy Pitaniya, Vol. XXV, No. 4, 1966, pp. 32-36. JPRS 38713

Scientific
Biological & Medical Sciences (Contd)

5-Oxytryptamine Content in Tissues with Different Vitamin K Allowances, by N. G. Bogdanov and B. V. Polushkin, 7 pp. RUSSIAN, per, Voprosy Pitaniya, Vol XXV, No. 4, 1966, pp. 36-40. JPRS 38713

The Level of Pyridoxalic Coenzymes in the Plasma of Patients with Coronary Atherosclerosis Kept on a Curative Diet and After an Added Vitamin B_6 Intake, by L. G. Gvozdova, E. G. Paramonova, Ye. V. Goryachenkova, and L. A. Polyakova, 7 pp. RUSSIAN, per, Voprosy Pitaniya, Vol XXV, No. 4, 1966, pp. 40-54. JPRS 38713

Excretion of Vitamin B_6 by Elderly and Senile Subjects, by V. Ye. Artamonova, 7 pp. RUSSIAN, per, Voprosy Pitaniya, Vol. XXV, No. 4, 1966, pp. 45-48. JPRS 38713

Features Peculiar to the Excretion of Nicotinic Acid in Persons of Advanced and Old Age, by T. F. Sokolova, 6 pp. RUSSIAN, per, Voprosy Pitaniya, 1966, Vol. XXV, No. 4, pp. 48-51. JPRS 38713

The Effects of Ultrasound on the Level of Nicotinamide-Nucleotide Coenzymes and Flavin Nucleotides in the Tissues of Experimental Animals, by R. Beleva-Staykova, 8 pp. RUSSIAN, per, Voprosy Pitaniya, Vol XXV, No. 4, 1966, pp. 52-56. JPRS 38713

Investigation of Riboflavin Metabolism in White Rats Kept on a Diet Containing Vegetable and Animal Proteins, by K. A. Askarov, 6 pp. RUSSIAN, per, Voprosy Pitaniya, Vol XXV, No. 4, 1966, pp. 57-60. JPRS 38713

Effect of High and Low Afferentation of Human Organism from Viewpoint of Space Psychophysiology, by F. D. Gorbov, F. P. Kosmolinskiy and V. I. Myasnikov, 6 pp. RUSSIAN, per, Voprosy Psikhologii, No. 5, 1966, pp. 67-71. JPRS 39077

Scientific
Biological & Medical Sciences (Contd)

Graphic Method of Recording Pulse, by
V. V. Sychev.
RUSSIAN, per, Voyenno-Med Zh, Vol XII,
1956, pp 83-84.
NASA TT F-10,362

Biological and Chemical Basis of the Possibility
of Using Tanning Substances in the Treatment of
Persons with Malignant Tumors, by L. A. Tumer-
man,
RUSSIAN, per, Vracho Delo, Vol VIII, 1965, pp
58-61.
HEW-NIH-12-19-66

Aerosols in Fight with Pirikulyariosis of
Rice, by E. Bonch,
RUSSIAN, per, Zachita Rasteniy, No 6, 1966,
pp 27-29.
*ACSI J-1593
ID 2204002167

Properties of Antibodies Fixed on
Particles and Perspectives of Their
Application in Microbiology. Report V.,
by A. K. Adamov, 10 pp.
RUSSIAN, per, Zhur Mikro Epid i Immuno,
No 11, 1964, pp 3-7. TP5000035
FTD-TT-65-1714

Experimental Study of Possibilities of
Reducing the Toxicity of Typhoid Vaccines
for Irradiated Animals, by V. N. Mal'tsev.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemi-
ologii i Immunobiologii, No 8, 1965, pp 88-91.
*ACSI J-1297
ID 2204057566

The Use of Higuchi-Smith Medium for Improv-
ing the Immunogenic Properties of Plague
Vaccine Strains, by N. G. Ponomarev.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemi-
ologii i Immunobiologii, No 10, 1965, pp 43-47.
*ACSI J-1294
ID 2204057266

Morphological Characteristics of the
Brucellar Vaccine Process in Irradiated
Guinea Pigs, by Z. V. Snevtsova.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemi-
ologii i Immunobiologii, No 10, 1965,
pp 61-65.
*ACSI J-1295
ID 22044057366

Scientific
Biological & Medical Sciences (Contd)

Immunobiologic Studies of Schizophrenia, by
M. E. Vartanian.
RUSSIAN, per, Zh Nevropat Psikhiat Korsakov,
Vol 63, No 10, 1963, pp 457-465.
HEW NIH 6-19-66

Multiposition Machine for Testing Flat Speci-
mens for Fatigue, by A. S. Nikishov and
I. A. Yarov, et al,
RUSSIAN, Patent No 167,055, June 8, 1963,
3 pp. P100073266
FTD-TT-65-1391

Reactions of the Cardiovascular System to
Physical Stresses in Elderly Persons, by I. V.
Muravov, et al,
UKRAINIAN, per, Gerontology and Geriatrics, 1962,
pp 129-142.
HEW-NIH-11-3-66

Imanin - An Antibiotic From St. John's
Wort, 122 pp.
UKRAINIAN, bk, Imanin - Antibiotik iz
Zveroboya, Kiev, 1961, pp 1-96.
FTD-TT-65-1310

Some Epidemiological Data on the Incidence of
Asthma in Childhood, by H. Varekamp, et al,
BELGIUM, per, Belg T Geneesk, Vol XX, No 5,
1964, pp 258-271.
HEW-NIH-11-17-66

A LSD₂₅ Clinical and Experimental Test as an
Auxilliary Means in the Differential Disgnosis
and Simulation of Psychotic Disease, by I.
Temkov, et al,
BULGARIAN, per, Surv Med, Vol XV, No 9, 1964,
pp 28-33.
HEW-NIH-7-8-66

Current Status on the Problem of Etiology and
Leucocytes, by Z. Georgiev,
BULGARIAN, per, Suvr Med, Vol XV, 1964, pp
31-39.
HEW-NIH-11-7-66

Clinical Observations of Individuals Contaminated
by a Pinacolic Ester of Methylfluorophosphine
Acid (Soman), by D. Lekov, V. Dimitrov and Z.
Miskov, 8 pp.
BULGARIAN, per, Voenna meditsinsko delo, No. 4,
Aug 1966, pp. 47-52.
JPRS 38623

Scientific
Biological & Medical Sciences (Contd)

Mathematical Analysis of Epiphytotics of Wheat Stripe Rust in Spring Study of Dispersal Distance, by S. Tseng, CHINESE, per, Acta Phytopathologica Sinica, Vol VI, No 2, 1963, pp 141-150.
*ACSI J-1612
ID 2204002867

The Complete Synthesis of Crystalline Insulin, 46 pp. CHINESE, per, K'o-hsueh T'ung-pao, Vol 17, No 6, Jun 1966, pp. 241-271.
JPRS 38756

Our Experiences with Liquorrheal Fistulae, by M. Kozic, et al, CZECH, per, Acta Chir Iugosl, Vol XII, 1965, pp 12-22.
HEW-NIH-12-7-66

Interaction of Man's Two Signalling Systems, Logic of Functions and Logic of Relations, by J. Hrbek, CZECH, per, Acta Universitatis Palackianae Olomucensis Facultates Medicae, Vol XXXI, 1962, pp 121-132.
*ACSI J-1595
ID 2204002267

A New Blood Group Variant: H_m, by M. Hrubisko, et al, CZECH, per, Cas Lek Cesk, Vol CV, 1966, pp 178-183.
HEW-NIH-11-12-66

Transfusion of Human Leukocytes. I. Critical Review with Emphasis on Therapeutic Use, by J. Libansky, CZECH, per, Cas Lek Cesk, Vol CV, No 13, 1966, pp 329-332.
HEW-NIH-12-13-66

Indices for Epidemiological Investigation of Periodontal Diseases, by J. Kostlan, CZECH, per, Cesk Stomat, Vol LXV, No 1, 1965, pp 1-7.
HEW-NIH-6-41-66

The Incidence of Periodontal Diseases. A Review., by J. Kostlan, CZECH, per, Cesk Stomat, Vol LXV, No 2, 1965, pp 141-149.
HEW-NIH-6-45-66

Scientific
Biological & Medical Sciences (Contd)

Decrees of the Party and of the Government Concerning the Further Development of Public Health Services and the Campaign Against Contagious Diseases in the Army, by M. Divisovsky. CZECH, per, Vojenske Zdravotnicke Listy, 1965, pp 141-143.
*ACSI J-1299
ID 2204057666

The Weight of Newborn Babies, by E. Ingerslev. DANISH, per, Nord. Med. Ark. Vol 7, No 7, 1875, pp 1-33.
HEW NIH 6-31-66

Liver Damage Due to Drugs, by K. Winkler, DANISH, per, Ugeskr Laeg, Vol CXXVII, No 19, 1965, pp 621-627.
HEW-NIH-12-26-66

Chromosome Study in Typhus Degenerativus Amstelodamensis (De Lange's Syndrome), by M. Geudeke, et al, DUTCH, per, Maandschr Kindergeneesk, Vol XXXI, No 7, 1963, pp 248-258.
HEW-NIH-12-15-66

Treatment of Patients with Phenylketonuria (from the practice of Pediatrics), by F. J. Van Sprang, et al, DUTCH, per, Maandschr Kindergeneesk, Vol XXXIII, 1964, pp 138-155.
HEW-NIH-7-9-66

Several Aspects of the Balb/c Tumor, by U. J. G. Swaen, DUTCH, per, Nederl T Geneesk, Vol CIX, No 26, 1965, pp 1223.
HEW-NIH-7-11-66

Electron Microscope Findings in the Balb/c Kidney Tumor, by G. J. V. Van Haelst, DUTCH, per, Nederl T Geneesk, Vol LIX, No 26, 1965, pp 1223-1224.
HEW-NIH-7-12-66

Hearing Losses Due to the Firing of Light Weapons, by R. Plomp. DUTCH, rpt, RVO-TNO Rapport No. WN 1956-9, 21p.
*ACSI J-1397
ID 2204061866

Scientific
Biological & Medical Sciences (Contd)

Hearing Loss due to the Effect of Ear
Plugs, by D. W. Gravendeel.
DUTCH, rpt, RVO-TNO Rapport No. WW 1957-5,
28p.
*ACSI J-1400
ID 2204062066

Keratosis, Hyperkeratosis, Parakeratosis and
Dyskeratosis of the Buccal Mucous Membrane, by
L. Lebourg,
FRENCH, per, Actualites Odontostomat, Vol LXVII,
1964, pp 273-291.
HEW-NIH-7-2-66

Intrathoracic Parietal Lymph Nodes, by H.
Rouviere,
FRENCH, per, Anatomie des Lymphatiques de
l'Homme, 1932, pp 155-189.
HEW-NIH-6-47-66

Lymphates of the Lungs. Lymphatic Vessels of
the Lungs, by H. Rouviere,
FRENCH, per, Anatomie des Lymphatiques de
l'Homme, 1932, pp 209-230.
HEW-NIH-7-3-66

Action of Actionomycin D on the Sporulation of
Bacillus Subtilis, by J. Szulmajster,
R. E. Canfield, et al.
FRENCH, per, Comptes Rendus, Vol 256, 1963,
pp 2057-2060. P911125766
AEC UCRL-tr-1329

Interference Between Lymphocytic Choriomeningitis
and Rauscher's Mouse Leukemia, by G. Barski, et al
FRENCH, per, Comp. Rend. Acad Sci, Vol 259, 1964,
pp 4191-4194.
HEW NIH 6-9-66

Experimental Cancerology. Organ-Type Culture of
Two Human Epitheliomas in the Absence of Living
Substratum, by E. Wolff, et al,
FRENCH, per, C R Acad Sci, Vol CCLX, 1965,
pp 2359-2363.
HEW-NIH-7-27-66

Persistence of the Genome of the Rous Virus in
Hamster Cells Coverted in Vitro by an Undefect-
ive and by a Defective Virus, by R. Vigier,
FRENCH, per C R Acad Sci, Vol CCXLII-D, No 24,
1966, pp 2554-2557.
HEW-NIH-12-20-66

Scientific
Biological & Medical Sciences (Contd)

II. Hallucinogenic and Oneirogenic Drugs. In-
vestigations Dealing With the Characterization
and Pharmacologic Differentiation of the Hallu-
cinogenic Drugs, by J. Jacob.
FRENCH, per, Encephale, Vol 53, 1964, pp 520-535.
HEW NIH 6-15-66

Psychoanaleptic Properties of Hallucinogens in
Experimental Pharmacology, by J. Thuillier.
FRENCH, per, Encephale, Vol 53, 1964, pp 536-542
HEW NIH 6-26-66

Exploration of the Latent content of Sterotyped
Schizophrenic Drawings Made Under the Influence
of Psychodysleptics, by G. Maccagnani, et al.
FRENCH, per, Encephale, Vol 53, 1964, pp 543-552
HEW NIH 6-17-66

Excretion of Phenyl Pyruvate in Urine as Meta-
bolic Anomaly Related to Imbecility, by A. Fol-
ling,
FRENCH, per, Hoppe Seyler Z Physiol Chem, Vol
CCXXVII, 1934, pp 169-176.
HEW-NIH-11-9-66

Report from the Biological Freshwater Labora-
tory Frederiksdal at Lyngby (Denmark) No XI.
Biological Studies on Net-spinning, Campodei-
form Trichopterous Larvae, by C. Wesenberg-
Lund,
FRENCH, per, Int Rev Ges Hydrograph, Third
Ser, 4, Biol Suppl 3, 1911, pp 1-64.
HEW-NIH-6-50-66

Anatomical and Histological Studies on the
Subfamily Triatominae, by D. Lacombe,
FRENCH, per, MémInst Cruz, Vol LV, No 1,
1957, pp 69-111.
HEW-NIH-11-4-66

Test of Thrombopoietic Activity of Plasma Fil-
trate in Receptor Rats, by Le-Xuan-Chat, et al,
FRENCH, per, Nouv Rev Franc Hemat, Vol III,
No 4, 1963, pp 405-419.
HEW-NIH-11-24-66

Apical Pulmonary Infiltrates of the Tuberculous
Appreurance with Concomitant Blood Hypereosino-
philia in the Asthmatic Patient, by J. Turiaf,
et al,
FRENCH, per, Poumon Coeur, Vol XXII, No 1, 1966,
pp 49-60.
HEW-NIH-11-15-66

Scientific
Biological & Medical Sciences (Contd)

Experiment of Treating Chronic Myeloid Leukemia With Dibromomannitol, by G. Mathe, et al.
FRENCH, per, Presse Med, Vol 72, No 37, 1964, pp 2135-2136
HEW NIH 6-33-66

The Extrarenal Actions of the Antidiuretic Hormone, by P. Montastruc.
FRENCH, rpt, IN: Proceedings of the International Congress, Leiden 1962, Part 1 Amsterdam, Excerpta Medica Foundation, n.d., pp 79-86.
HEW NIH 6-22-66

Recovery and Radio-Resistance in Mice After External Irradiation, by Sylvain Le Guillou. 80 pp.
FRENCH, rpt, Restauration et Radio-Resistance Chez la Souris Apres Irradiation Externe, Oct 1965. P911141866
AEC ANL-tr-377

The Proliferation of Human Lymphocytes "in Vitro", by E. H. Cooper, et al.
FRENCH, per, Rev Franc Etud Clin Biol, Vol 10, 1965, pp 469-487.
HEW NIH 6-13-66

Injection of Human Leukemic Lymphocytes Into the Cheek Pouch of the Hamster, by A. Zlotnick.
FRENCH, per, Rev Franc Etud Clin Biol, Vol X, 1965, pp 750-753.
HEW-NIH-6-43-66

On Remission of Acute Leukemia Through Replacement Transfusion, by M. Bessis, et al.
FRENCH, per, Rev. Hemat, Vol 5, No 2, 1950, pp 188-225.
HEW NIH 6-24-66

Electrographic Approach to a Symptomatology of Vision, by A. Remond, et al.
FRENCH, per, Rev Neurol, Vol XCVI, 1957, pp 536-546.
HEW-NIH-12-4-66

The French Translation of Vesalius' Fabrica by J. Verschaffelt, by L. Blaut,
FRENCH, per, Scientiarum Hist, Vol VII, 1965, pp 156-162.
HEW-NIH-7-28-66

Nocturnal Sleep of Mental Patients, by G. C. Lairy, et al.
FRENCH, per, Somm Nuit, Vol 2, 1965, pp 354-381.
HEW NIH 6-25-66

Scientific
Biological & Medical Sciences (Contd)

Treatment of Accidental Internal Contamination, by J. Lafuma.
FRENCH, rpt, Symposium on Accidental Irradiation at Place of Work, Nice, 26-29 Apr 1966.
P911169566
AEC CONF-660412-7

Parameter Correlation and Overdetermination in the Structural Refinement According to the Method of Least Squares, by C. Scheringer.
GERMAN, per, Acta Crystallogr, Vol 19, No 4, 1965, pp 504-513.
HEW NIH 6-4-66

Significance of the Ribonucleic Acids and their Precursors (ribonucleosides) in the Metabolism of the Hepatic Cell, by G. Segal.
GERMAN, per, Acta Geront, Vol 14, No 4, 1964, pp 244-251.
HEW NIH 6-5-66

A Formidable Allergy: Asthama Due to Aspirin, by B. Halpern, et al.
GERMAN, per, Acquis Med Recent, 1965, pp 5-14.
HEW-NIH-7-16-66

Membrane Filters in Aerosology. II. Filtration Mechanisms with Membrane Filters, by K. Spurny,
GERMAN, per, Aerosol. Forschung., Vol XII, No 5, 1965, pp 530-545.
Dept of Navy 5061/MNI tr-2264

Results with Inhalation Test in Suspected Bacterial and Viral Sensitization in Cases of Bronchial Asthma, by M. K. Hajos,
GERMAN, per, Allerg Asthma, Vol IX, No 2, 1963, pp 94-98.
HEW-NIH-11-1-66

Studies on the Histogenesis of the Thymus. I. the Origin of the Myoid Elements of the Thymus of the Chick Embryo, by A. Wassjutschkin,
GERMAN, per, Anat Anz, Vol XLIII, 1913, pp 349-366.
HEW-NIH-7-19-66

Offer of a Hygienic Article for Introduction in the Armed Forces of the United States, by Horst Voelkel.
GERMAN, rpt, Angebot eines Hygienischen Artikels zur Einfuehrung bei den Streitkraefen der USA, 13 Aug 1966, 17p.
ACSI J-0825

Scientific
Biological & Medical Sciences (Contd)

The Use of Programmed Digital Computers for the Solution of Special Chemotherapeutic Problems, by E. Kruger-Thiemer, GERMAN, per, Antibiot Chemother (Basel), Vol XII, 1964, pp 253-259.
HEW-NIH-7-17-66

Excretion of Sulfuric and Phosphoric Acids During Physical Activity, by G. J. Engelmann.
GERMAN, per, Arch Ana Physiol, 1871, pp 14-30.
NASA TT F-10,487

The Dependence of Myocardial Infarctions Upon Climate, Weather and Season, by H. Brezowsky,
GERMAN, per, Arch Kreislaufforsch, Vol XLVII, No 1/2, 1965, pp 159-188.
HEW-NIH-12-14-66

Chronological Course and Detection of Caries in an Animal Experimental Study, by H. D. Cramer, H. J. Kinkel, 5 pp.
GERMAN, per, Archives of Oral Biology, No 3, 1961, pp 100-116.
Dept of Navy 5035/OMI Tr 2238

Comparative Studies on more Recent Sulfanilamides, Report 1, by P. Bungar et al.
GERMAN, per, Arzneimittelforschung, Vol 11, No 3, 1961, pp 247-255.
HEW NIH 6-2-66

Statistical Analysis in Series of Clinical Investigations Involving a Single Criterion, by G. Betzien,
GERMAN, per, Arzneimittelforschung, Vol XII, No 2, 1962, pp 98-125.
HEW-NIH-7-1-66

The Solution of Chemotherapeutic Problems by Means of Automatic Digital Computers. 1. The Calculation of the Pharmacokinetic Constants and Dosage of Chemotherapeutic Agents as a First Approximation, by B. Schlender,
GERMAN, per, Arzneimittelforschung, Vol XII, No 10, 1962, pp 992-1001.
HEW-NIH-6-44-66

Scientific
Biological & Medical Sciences (Contd)

The Solution of Chemotherapeutic Problems by Programmed Digital Computers. Report II. The Exact Calculation of the Equation Parameters and Their Confidence Limits by Means of the Iteration Method of Gauss and Newton, by E. Kruger-Thiemer,
GERMAN, per, Arzneimittelforschung, Vol XIII, No 10, 1963, pp 891-894.
HEW-NIH-7-5-66

The Solution of Chemotherapeutic Problems by Programmed Digital Computers. Report IV. The Iterative Method of Gauss and Newton for Four Equation Parameters, by E. Kruger-Thiemer,
GERMAN, per, Arzneimittelforschung, Vol XIV, No 12, 1964, pp 1332-1334.
HEW-NIH-7-4-66

The Solution of Chemotherapeutic Problems by Programmed Digital Computers. Report V. Systematics of Pharmacokinetic Models and Interpretation of the Distribution Volumes and The Rate Constants, by E. Kruger-Thiemer,
GERMAN, per, Arzneimittelforschung, Vol XIV, No 12, 1964, pp 1334-1343.
HEW-NIH-7-13-66

Alkylating Substances in Serum and Urine After the Injection of Cyclophosphamide, by H. J. Hohorst, et al,
GERMAN, per, Arzneimittelforschung, Vol XV, No 4, 1965, pp 432-434.
HEW-NIH-12-5-66

Retrothelial Sarcoma of the Lymph. Its Forms and Relationships, by R. Rossle,
GERMAN, per, Beitr Path Anat, Vol CIII, 1939, pp 385-415.
HEW-NIH-7-6-66

Effect of Potassium Permanganate on Collagen, by T. Memetschek,
GERMAN, per, Beitr Silikoseforsch Special Vol: Grundfragen der Silikoseforschung, Vol V, 1963, pp 217-233.
HEW-NIH-6-46-66

Investigations on the Secondary Structure of Soluble RNA From Yeast, by H. Seidel, F. Cramer.
GERMAN, per, Biochim, et Biophys. Acta, Vol 108, 1965, pp 367-375. P911131266
AEC ORNL-tr-1404

Scientific
Biological & Medical Sciences (Contd)

Cell Proliferation in Normal and Malignant Tissues: Incorporation of ³H-Thymidine in Vitro Under Standard Conditions, by M. F. Rajewsky.
GERMAN, per, Biophysik, Vol 3, 1966, pp 65-93.
P911141966
AEC UCRL-tr-10071

Preparation of Thrombocyte Concentrates From Fresh ACD Stored Whole Blood. A Rational Routine Procedure for large Blood Banks, by E. Hasse.
GERMAN, per, Blut, Vol 8, No 1, 1962, pp 4-15.
HEW NIH 6-20-66

Blood Group Inhibitors in Penicilin and Streptomycin, Especially in Incomplete Anti-Rh Sera, by O. Prokop, et al,
GERMAN, per, Dtsch Gesundh, Vol XX, 1965, pp 1894-1896.
HEW-NIH-11-25-66

Retinal Lesions in Traumatic Fevers, by M. Roth,
GERMAN, pr, Dtsch Z Chir, Vol I, 1872, pp 471-484.
HEW-NIH-12-1-66

Differentiation Capacities of Repeatedly Fragmented Pieces of the Male Genital Disk of Drosophila Melanogaster in vivo, by E. Madorn.
GERMAN, per, Develop Biol, Vol 7, 1963,
HEW NIH 6-11-66

For Hot and Cold Packing of Fruit Juices and Fruit Flavored Drinkswith Prolonged Keeping Qualities.
GERMAN, rpt, Fuer Dieheiss und Kaltabfuellung von Fruchtsoefften und Fruchtsaftgetranken mit Langer haltbarkeit, 6p.
*ACSI J-1350
ID 2204059566

Description and Classification of an Actinomycete, the Producer of a Substance Endowed with Antitumorogenic Properties; Daunomycin, by A. Grein, et al,
GERMAN, per, G Microbiol, Vol XI, 1963, pp 109-118.
HEW-NIH-12-3-66

Retarded Damage of Skeleton After ThX-Treatment, H. Spiess.
GERMAN, rpt, Gustav Fischer Verlag-Stuttgart, 1966, pp 46-53, Paper VI. P91172266
AEC ANL-tr-386

Scientific
Biological & Medical Sciences (Contd)

The Diagnostic Significance of the Experimental Creation of Blisters Through Intracutaneous Urea Injections, by Hans-J. Heite, R. Petry.
GERMAN, per, Der Hautarzt, Vol 10, No 4, April 1965, pp 164-170.
ACSI J-1168
ID 2204054566

The Presence of 3,7,11,15-Tetramethyl-Hexadecanoic Acid (phytanoic Acid) in the Cholesterol Esters and Other Lipid Fractions of the Organs in a Disease of Unknown Genesis [Suspected case of Heredopathia Atactica Polyneuritiformis (Refsum's Syndrome)], by E. Klank, et al.
GERMAN, per, Hoppe Seyler Zeit Physiol Chem, Vol 333, 1963, pp 133-139.
HEW NIH 6-10-66

Experimental Studies on the Problem of Tumor Metastization, by K. Karper,
GERMAN, per, Klin Med, Vol XX, No 7, 1965, pp 313-347.
HEW-NIH-11-2-66

Status of the Technology of Glucose Extraction by the Gluco-amylase Method, by F. Schierbaum.
GERMAN, per, Die Lebensmittel-Industrie, No 6, 1966, pp 223-226.
ACSI J-1288
ID 2204057066

On Testing a Pilot Equipment for Lyophilization of Food, by W. Anter,
GERMAN, per, Die Lebensmittel Industrie, No 7, 1966, pp 250-253.
*ACSI J-1591
ID 2204001967

Non-Alcoholic Beverages with High Dietetic Value, by L. T. Kovats.
GERMAN, per, Die Lebensmittel-Industrie, No 7, pp 253-255.
*ACSI J-1418
ID 2204062366

In Vitro Determination of Thyroid Function With the Serum *T₃ Test, by W. Stumpf, et al.
GERMAN, per, Medizinische Klinik, Vol 58, No 5, 1963, pp 192-196.
*AEC LB/G/2499

Scientific
Biological & Medical Sciences (Contd)

The Artificial Paradise, by D. Tadros.
GERMAN, per, Praxis, Vol 53, No 19, 1964,
pp 665-668.
HEW NIH 6-21-66

Vapor-Cooled Fast Breeding Reactor, 1000MW,
Project Fast Breeder Report No 226, by
A. Muller, et al.
GERMAN, rpt, Referenzstudie fur den 1000 MW,
Dampfgekühlten Schnellen Brutreaktor (D 1),
Aug 1966.
*AEC ORNL-tr-1541

Alpha-Globulin Plasmocytoma, by F. Wuhrmann,
et al,
GERMAN, per, Schweiz Med Wschr, Vol LXXVIII,
No 8, 1948, pp 180-182.
HEW-NIH-7-25-66

Histologic and Cytodynamic Aspects on Immuno-
logic Reactions, by M. Ricci, et al,
GERMAN, per, Settim Med, Vol LIII, No 22, 1965,
pp 1205-1239.
HEW-NIH-7-14-66

Averaged Conversion Factors of Rontgens Into Rads
for Solid Bone and for Muscular Tissue, by
Adalbert Rakow.
GERMAN, per, Strahlentherapie, Vol 127, 1965,
pp 538-549.
*AEC ORNL-tr-1544

Embryonal Malformation. Physiological Devel-
opmental Factors in the Pathogenesis of Heart
Defects, by G. Tondury,
GERMAN, per, Ther Umsch, Vol XIX, 1962, pp
449-455.
HEW-NIH-12-10-66

Varicose Hypertrophy of the Nerve Fibers, by
M. Roth,
GERMAN, per, Virchow Arch Path Anat, Vol LX,
No 1/2, 1874, pp 196-217.
HEW-NIH-11-19-66

Investigations Concerning the Occurrence of Hemin
Agglutination-Obstructing Anti-bodies Against
the Rec-Virus Types 1 and 2 in the Population,
by J. Schmidt.
GERMAN, per, Zeit, Hygiene Infektionskrankh,
Vol 150, 1965, pp 279-279.
*AEC ORNL-tr-1501

Scientific
Biological & Medical Sciences (Contd)

Hemolytic Shock. Part I. Triggering Factors,
by C. Badnag, et al.
GERMAN, per, Z Immunitätsforsch, Vol 120,
1960, pp 402-422.
HEW NIH 6-12-66

Morphology of Milk Secretion: Light- and Elec-
tromicroscopic Studies of the Mammary Gland of
Rats, by W. Bargmann, et al.
GERMAN, per, Zeit. fur Zellforschung, Vol 49,
1959, pp 344-388.
*AEC

On the Genesis of the Yolk System. In the
Oocyte of Brachydanio Rerio Autoradiographic
Studies, by K. H. Korfsmeier.
GERMAN, per, Zeit. Zellforschung, Vol 71, 1966,
pp 283-296.
*AEC ORNL-tr-1487

The Transport Function of the Endoplasmatic Reti-
culum of Sublethally Irradiated Chicken Heart
Myoblasts, by Dieter Schaefer.
GERMAN, per, Zeitschrift fur Zellforschung,
Vol 71, 1966, pp 562-573. P911172866
AEC ANL-tr-374

Detection of Microbial Aerosols
Using the Membrane Filter Method,
by O. Machala, 19 pp.
GERMAN, per, Zentralblatt fur
Aerosol Biologische Forschung,
Vol XII, No 6, 1965, pp 519-529.
Dept of Navy 5043/ONI Tr 2137

Process for the Treatment of Hops, by Pavel
Weiner, 9 pp.
GERMAN, Patent No 1,070,121.
Dept of Com
Patent Office

Secretarial Report of the Department of
Biological Sciences at the Hungarian Academy
of Sciences, by Bruno F. Straub, 34 pp.
HUNGARIAN, per, A Magyar Tudományos Akademia
Biologiai Osztalyanak Közleményei, Nos 3 and
4, pp. 171-201.
JPRS 36745

The Epidemiology of Caries in Deciduous Teeth,
by A. Toth, et al.
HUNGARIAN, per, Fogorv. Szemle, Vol 58, 1965,
pp 42-48.
HEW NIH 6-29-66

Scientific
Biological & Medical Sciences (Contd)

The Epidemiology of Caries in Deciduous Teeth. II. The Frequency of Caries and Susceptibility of Individual Teeth, by P. Adler, et al. HUNGARIAN, per, Fogorv. Szemle, Vol 58, 1965, pp 100-106.
HEW NIH 6-30-66

The Birth of the Dog, by C. Naaktgeboren, HUNGARIAN, per, Hondenwereld, 1964, pp 1-20.
HEW-NIH-6-48-66

Abuse of Phenmetrazine (Preludin and Gracidin) and Psychosis, by G. Varga et al. HUNGARIAN, per, Orv Hetil, Vol 104, 1963, pp 1378-1379.
HEW NIH 6-14-66

Fundamentals Conditions that Regulate in the Heart the Diphasic Action of the Acetylcholine as Local Hormone and as Mediator of the Vagal Impulses, by I. Spadolini, ITALIAN, per, Arch Fisiol, Vol LII, No 4, 1952, pp 329-353.
HEW-NIH-7-21-66

The Phenomena That Occur in the Neighborhood of a Time Line, by E. Fermi. ITALIAN, per, Atti Accad Nazl Lincei Rend Vol XXXI(1), pp 17-23, 51, 52, 101, 103. 1922.
NASA TT F-10,356

The Close Interdependence of Biology, Clinical Medicine and Social Medicine for Effective Orientation in Studies in Gerontology, by E. Greppi, ITALIAN, per, G Geront, Vol XIV, No 5, 1966, pp 5-9.
HEW-NIH-7-7-66

Isolation of an Antibiotic from Streptomyces sp. and Its Antitumorogenic Activity, by F. Arcamone, et al, ITALIAN, per, G Microbiol, Vol IX, No 2, 1961, pp 83-90.
HEW-NIH-11-5-66

Daunomycin - - a New Antibiotic Endowed with Cytostatic Properties; Its Isolation and Characteristics, by G. Cassinelli, et al, ITALIAN, per, G Microbiol, Vol XI, 1963, pp 167-174.
HEW-NIH-11-10-66

Scientific
Biological & Medical Sciences (Contd)

Action of Daunomycin on Nucleic-Acid Metabolism, in E. Coli B., by P. Barbieri, ITALIAN, per, G Microbiol, Vol XII, 1964, pp 71-82.
HEW-NIH-11-14-66

Antiphage Activity of the Antibiotic Daunomycin, by A. Sanfilippo, et al, ITALIAN, per, G Microbiol, Vol XII, 1964, pp 83-92.
HEW-NIH-11-8-66

Study of the Stimulation of Human Lymphocyte Cultures by Tuberculin Antigens, by M. Ricci. ITALIAN, per, Minerva Med, Vol 56, No 101, 1965, pp 4459-4464.
HEW NIH 6-34-66

A Critical Evaluation of a File Card for Recording Data on Tumor Cases, by E. Ciambellotti, ITALIAN, per, Minerva Med, Vol LVI, No 12, 1965, pp 4492-4495.
HEW-NIH-11-18-66

Observations on the Weight of Newborns in Sassari from 1933 to 1963: A Clinico-Statistical Contribution to the Study of Prenatal Acceleration of Growth, by G. Aicardi, et al, ITALIAN, per, Minerva Pediat, Vol XVII, No 16, 1965, pp 936-942.
HEW-NIH-12-2-66

Is the Birth Weight Increase a Sign of Accelerated Human Development?, by B. Salvadori, ITALIAN, per, Minerva Pediat, Vol XVII, NV 2, 1966, pp 1196-1198.
HEW-NIH-11-26-66

Influence of Therapy on Fibrinogen and Fibrinolysis in Hemoblastosis, by G. Fiacomazzi, ITALIAN, per, Policlinico, Vol LXIX, No 3, 1962, pp 129-146.
HEW-NIH-7-10-66

On the Behavior of the Pigmented Epithelium in Chick Embryos Under Special Conditions of Chorionallantoic Graft, by B. Bertolini. ITALIAN, per, Riv Biol, Vol 50, No 4, 1958, pp 345-360.
HEW NIH 6-28-66

Scientific
Biological & Medical Sciences (Contd)

Studies on the Immunological Reaction of Man to Streptococcus of Group A, by M. Ricci.
ITALIAN, per, Settim Med, Vol 53, No 22, 1965, pp 1153-1160.
HEW NIH 6-35-66

Anti-P. P.D. Serum Antibodies in Patients with Pulmonary Tuberculosis and in Nontubercular Subjects. Comparative Study with Two Methods of Passive Hemagglutination and Findings on the Clinical-Biological Significance of the Aforesaid Antibodies, by M. Ricca, et al.
ITALIAN, per, Settim Med, Vol LIII, No 22, 1965, pp 1161-1170.
HEW-NIH-6-42-66

The Lymphocytic Reaction in Vitro to Tuberculin Antigens in Pulmonary Tuberculosis Patients, by A. Passaleva, et al.
ITALIAN, per, Settim. Med. Vol 53, No 22, 1965, pp 1171-1175.
HEW NIH 6-36-66

The Behavior of Lymphocyte Cultures of Pollinosis Patients Toward Pollen Allergens, by A. Passaleva, et al.
ITALIAN, per, Settim. Med. Vol 53, No 22, 1965, pp 1177-1183.
HEW NIH 6-38-66

Studies on Histoincompatibility in Vitro Among Subjects With and Without Neoplastic Disease, by A. Passaleva, et al.
ITALIAN, per, Settim. Med. Vol 53, No 22, 1965, pp 1185-1194.
HEW NIH 6-37-66

Histology of the Tuberculin Hypersensitivity in Man, by L. Lenzini, et al.
ITALIAN, per, Settim Med, Vol LIII, No 22, 1965, pp 1195-1204.
HEW-NIH-6-40-66

Investigations of the Viral Etiology of Certain Chronic Pneumopathies, by P. Athanasiu, et al.
ITALIAN, per, Stud Cercet Inframicrobiol, Vol XIV, 1963, pp 213-216.
HEW-NIH-11-23-66

A Study of Nucleic Acids in the Cerebrum, Cerebellum, and Liver as a Function of Animal Age and Under the Influence of Treatment with Vitamin B₆ and Folic Acid, by C. Georgescu,
ITALIAN, per, Stud Cercet Med Intern, Vol V, No 4, 1964, pp 437-441.
HEW-NIH-11-21-66

Scientific
Biological & Medical Sciences (Contd)

Study by Electron Microscope of Changes Induced in HeLa Cells by Daunomycin, by L. Dorigotti,
ITALIAN, per, Tumori, Vol L, No 2, 1964, pp 117-135.
HEW-NIH-11-13-66

Effects of Daunomycin on the Synthesis of Nucleic Acids in Hepatoma Cells, by A. Rusconi, et al,
ITALIAN, per, Tumori, Vol L, No 4, 1964, pp 261-266.
HEW-NIH-11-20-66

Prognosis and treatment of Wilms' tumor, by R. Mastrangelo.
ITALIAN, per, Tumori, Vol 51, No 1, 1965, pp 1-12.
HEW NIH 6-3-66

Prolonged Cultivation of the Rauscher Virus in Vitrom by K. Hiraki, et al,
JAPANESE, per, Igaku No Ayumi, Vol LVIII, No 12, 1966, pp 758-760.
HEW-NIH-12-16-66

An Experimental Study of Articular Lubrication, by Z. Fukuoka.
JAPANESE, per, Igaku Kenkyo, Vol 34, 1964, pp 100-110.
HEW NIH 6-23-66

Rauscher Virus and Rauscher Disease. IV. Histological Studies of AKR Mice with Rauscher Disease with Special Reference to Characteristic Lesions of the Kidney, by I. Miyaki,
JAPANESE, per, Igaku To Seibutsugaku, Vol LXXIII, No 1, 1966, pp 1-4.
HEW-NIH-12-28-66

Special Lectures. 1. Studies of the Protein Antigen of the Tubercle Bacilli with Special Reference to Its Immunochemical Analysis, by M. Yoneda,
JAPANESE, per, Kekkaku, Vol XXXVIII, 1963, pp 287-295.
HEW-NIH-7-15-66

Effect of Maruyama Vaccine on Experimental Tuberculosis of Guinea Pigs, by S. Haibara,
JAPANESE, per, Kekkaku, Vol XXXIX, 1964, pp 13-22.
HEW-NIH-7-24-66

Scientific
Biological & Medical Sciences (Contd)

Comparative Study of Phacometry and the Ultrasonic Method in Measurement of Refractive Elements of the Human Eye, by J. Otsuka, et al.
JAPANESE, per, Nippon Ganka Gakkai Z. Vol 65, 1961, pp 1777-1792.
HEW NIH 6-27-66

Elasticity of Gel (No 7) Gelatin-Glycerin Gel, by N. Hirai, et al,
JAPANESE, per, Nippon Kagaku Z., Vol LXXIV, No 5, 1953, pp 347-349.
HEW-NIH-12-23-66

Elasticity of Gel (No 8-9), by N. Hirai,
JAPANESE, per, Nippon Kagaku Z., Vol LXXIV, No 6, 1953, pp 441-443.
HEW-NCH-12-24-66

Care Sugar Aqueous Solution Gel of Gelatin and Agar-agar and Their Transition Points, by N. Hirai,
JAPANESE, per, Nippon Kagaku Z., Vol LXXIV, No 6, 1953, pp 443-445.
HEW-NIH-12-25-66

Elasticity of Gels (Paper XI). Relation Between the Elasticity of Xerogels and Gels (Part 2), by N. Hirai,
JAPANESE, per, Nippon Kagaku Z., Vol LXXIV, No 8, 1953, pp 593-596.
HEW-NIH-12-27-66

Gastric Bleeding Induced by the Administration of Serotonin in Rats Pretreated with Noradrenalin, Part 2. Effects of Various Agents on the Gastric Bleeding with Special Reference to Central Nervous System-Activating Agents, Adrenalin-Potentiating Agents, Substances Metabolically Related to Adrenalin and Serotonin, and the Aliphatic Amines, by H. Hori,
JAPANESE, per, Nippon Yakurigaku, Vol LVIII, 1962, pp 11-19.
HEW-NIH-7-26-66

Method of Production of the New Antibiotic Bleomycin, by H. Umezawa, et al,
JAPANESE, Patent No 1965-8117, 24 Apr 1965.
HEW-NIH-12-21-66

The Norwegian Zoological Expedition to the Galapagos Islands 1925. XIII. Ixodcidea of the Galapagos Islands, by P. Schulze-Rostock,
NORWEGIAN, per, Medd Zool Mus Oslo, Vol XLV, 1936, pp 155-162.
HEW-NIH-12-22-66

Scientific
Biological & Medical Sciences (Contd)

A Study on the Post-Natal Formation of Ova in the Mammalian Ovary and the Relationship of the Ovary to the Peritoneum, by W. Koster,
NORWEGIAN, per, Versl Meded Konink Akad Wetensch (Natuurk), 2nd Series, No 3, 1869, pp 141-151.
HEW-NIH-7-18-66

Investigations on the Mycotrophy of Plant Associations in the Dwarf Mountain Pine Zone of the High Tatra, by T. Dominik and A. Nespik,
POLISH, per, Acta Societatis Botanicorum Poloniae, Vol XXII, No 4, 1953, pp 753-769.
CFSTI TT 65-50359

The Genus in the Light of "Breslaw Taxonomy", by E. Kuzniewski,
POLISH, per, Acta Societatis Botanicorum Poloniae, Vol XXV, No 2, 1956, pp 275-284.
*CFSTI TT 67-56114

The Generalization of the Dendritic Method and Its Application to the Systematics of Plants as Shown on the Example of Chenopodium L. and Atriplex L., by T. Kowal and E. Kuzniewski,
POLISH, per, Acta Societatis Botanicorum Poloniae, Vol XXVIII, No 2, 1959, pp 249-260.
*CFSTI TT 67-56113

Review of the Polish Species of the Genus Rhantus Dejean, by K. Galewski,
POLISH, per, Annales Zoologici, Vol XVI, No 17, 1957, pp 224-319.
*CFSTI TT 67-56112

Reporting and Combatting of Rabbit Myxomatosis, 6 pp.
POLISH, per, Dziennik Ustaw, No. 38, 17 Sept 1966, pp. 377-378.
JPRS 38635

A Tentative Comparison of Drinking Water Disinfection Methods, by A. Riedel,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 448-451.
CFSTI TT 63-11363

A Study of Fibrinolysis in Leukemia, by J. Kiczak, et al,
POLISH, per, Pol Arch Med Wewn, Vol XXXV, No 6, 1965, pp 785-792.
HEW-NIH-7-20-66

Scientific
Biological & Medical Sciences (Contd)

New Conservation Methods of Museum Collections,
by Ludvik Losos,
POLISH, bk, V. Prace, Narodni Museum, Kabinet
Musejni a Vlastivedne Prave, 1959, 169 pp.
*CPSTI TT 67-56115

Directions of Research in the Field of Drug
Conditioning, by V. Pilea, 12 pp.
ROMANIAN, per, Farmacia, Vol 14, No 8,
Aug 1966, pp. 449-454.
JPRS 38572

The Influence of Tolbutamide on Cholinesterase
Activity of the Digestive Tract,
by M. Mihailescu, 9 pp.
ROMANIAN, per, Timisoara Medicala, No. 2,
Apr/June 1966, pp. 159-165.
JPRS 38726

Works of the Oswaldo Cruz Institute. Entomological
Notes. I. Studies on the Anatomy of
the Genus Traitoma. Proboscis and Digestive
Tube, by A. L. de B. Barreto,
SPANISH, per, Brasil Med, Vol XXIII, No 21,
1919, pp 161-162.
HEN-NIH-11-6-66

Current Psychotherapeutic Perspectives
in the Doctor-Patient Relationship, by
E. Gomes de Aranzo Jr.
SPANISH, per, J Med (Porto), Vol 47,
1962, pp 237-245.
HEN-NIH 6-6-66

The Miracidium of Schistosoma Mansoni, by
C. Ottolina,
SPANISH, per, Rev Semid Asist Soc, Vol XXII,
No 1/4, 1957, pp --41.
HEN-NIH-12-12-66

Trachoma in Children, by E. Cornet,
SWEDISH, per, J Ophthal Soc, Vol XIII, 1952,
pp 10-11.
HEN-NIH-7-29-66

Scientific
Chemistry

Ultra Illumination in Biochemical
Reactions, by Yu. Vladimirov,
RUSSIAN, rpt, 1966.
*NASA TT F-456

Beryllium, Chemical Processing and
Metallurgy, by G. F. Silina, Yu. I. Zarembo,
12 pp.
RUSSIAN, rpt, Berilliy Khimicheskaya
Tekhnologiya i Metallurgiya, 1960, pp 103-119.
P500089666
Dept of Navy/ONI Tr 2156

Inhibition of RNA Synthesis by Actinomycin,
by S. Yu. Luk'yanov, N. G. Shuppe.
RUSSIAN, per, Biokhimiya, Vol XXXI, No 3,
1966, pp 521-527.
NASA TT F-10,369

Kinetics of Thermogalvanic Corrosion and the
Calculation of the Parameters of Thermogalvanic
Couples, by A. Ya. Shatalov, S. A. Kalushina, I.
K. Marshakov, 7 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy SSSR "Kimiya i Khimicheskaya Tekhnologiya",
1965, No. 6, pp. 931-935.
JPRS 38648

Anodic Behavior of Magnesium in
Salt Solutions in the Presence of
Alkali, by S. N. Fobedinakii, 8 pp.
RUSSIAN, per, Iz VUZ Khim i Khim Tekhnol.
No 6, 1962, pp 954-959.
Dept of Navy Tr 2039/ONI Tr 2248

Utilising Wastes of the Synthetic Rubber
Industry in the Role of Acid Corrosion
Decelerators, by V. A. Khitrov, V. P.
Zakorshniy, et al. 9p.
RUSSIAN, per, Khimicheskaya Promyshlennost.
No 4, 1964, pp 307-310.
FPO TT-65-1626

Potentiometric Investigation of the
Oxidation of Ferrus Chloride by
Oxygen, by V. V. Lyal'ko.
RUSSIAN, per, Khimiya i Khimicheskaya
Tekhnologiya, Vol VI, 1962, pp 911-915.
P500089666
NRC-982

Kinetics of Copolymerization in a Flow Reactor
of Ideal Mixing, by A. D. Litmanovich,
V. A. Agasundyan.
RUSSIAN, per, Kinetika i Kataliz, Vol 7, No 2,
Mar-Apr, 1966, pp 309-318. P511141966
ABC BNI-cr-97

Scientific
Chemistry (Contd)

Calcium Chromate as an Anticorrosive Heat Resistant Pigment, by M. A. Shtain.
RUSSIAN, per, Primeneniya Lakokrasochnykh Materialov, No 3, 1966, pp 13-18.
*BISI 5228

Investigation of the Enzymatic Synthesis of Polyadenine in Coacervates, by K. B. Serebrovskaya.
RUSSIAN, rpt, Problemy Evolyutsionnoy i Tekhnicheskoy Biokhimi
Akad Nauk SSSR, Inst Biokhim im A. N. Bakha, 1964,
pp 127-130.
NASA TT F-10,440

Chemical Equilibrium of Multitemperature Systems, by A. V. Potapov.
RUSSIAN, per, Teplotfiz Vysokikh Temp,
Vol IV, No 1, 1966, pp 55-58.
NASA TT F-10,495

Study of Aquation Kinetics of Some Binuclear Cobalt Ammine Complexes, by I. M. Reibel.
RUSSIAN, per, Trudy Kishinevsk. Sel'skokhoz. Inst, Vol 26, 1962, pp 25-33. P911140666
AEC ANL-tr-382

Application of Polynuclear Co-Complexes in Analytical Chemistry, by I. M. Reibel.
RUSSIAN, per, Trudy Kishinevsk. Sel'skokhoz. Inst, Vol 26, 1962, pp 45-51. P911143466
AEC ANL-tr-384

Synthesis of Ferrocene-Nitrogen-Containing Polymers With Conjugated Bonds, by T. F. Vishnyakova, I. A. Golubeva.
RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya, Vol VIII, No 1, 1966,
pp 161-185. P200108466
RSIC-597

On the Problem of Reactions in the System SiO₂-C During Heating, by A. N. Novikov.
RUSSIAN, per, Zh. Prikl. Khim, Vol 20, No 5, 1947, pp 431-438. P911140866
AEC SC-T-66-0762

Structure of Alloys in the Zr-C-Ta System, by A. I. Avgustinik, S. S. Ordan'yan.
RUSSIAN, per, Zh. Prikl. Khim, Vol XXXIX, No 2, 1966, pp 318-322.
*NASA TT F-10,646

Scientific
Chemistry (Contd)

Study of Equilibrium Carbonate-Bicarbonate Electrolyte in the Presence of Potassium Formate, by L. A. Matusevich and V. S. Bagotskiy, 6 pp.
RUSSIAN, per, Zhurnal Prikladnoy Khimii, No. 7, 1966, pp. 1463-1467.
JPRS 38687

Crystalline and Molecular Structure of Hexanitrobenzene, by Z. A. Akopyan, 11 pp.
RUSSIAN, per, Zhur Strukturnoi Khimii, Vol VII, No 3, 1966, pp 408-419.
Dept of Navy Tr 5041/ONI Tr 2251

Analytical Chemistry in Bulgaria and Abroad: Current Status and Prospects for Development, by I. Iordanov, 6 pp.
BULGARIAN, per, Khimiya i Industriya, Vol. 37, No. 4, 1966, pp. 167-169.
JPRS 38624

Status of Chemistry and Chemical Technology in Communist China, Part I.
CHINESE, bk, June 1966. P 921145766
FTD MER-66-27

Introduction to Potentiostatic and Potentiodynamic Techniques, by J. Tacussel.
FRENCH, per, Chimie Moderne, Vol 7, No 47, 1962, pp 73, 77, 79, 81, 83-84.
BTBI 5091

On Colloidal Hydroxides of Thorium, Zirconium, and Uranyl, by M. S. Szilard.
FRENCH, per, Journal de Chimie Physique, Vol 5, 1907, pp 488-494. P911173666
AEC ORNL-tr-1415

Preparation, Definition and Stabilisation of an Inorganic Sol by an Organic Macro-molecule-case of an Aluminium Hydroxide Colloid, by Andree Hurbin-Faucon.
FRENCH, rpt, Preparation, Definition et Stabilisation par une Macromolecule Organique d'un sol Mineral: Cas d'un Colloide D'hydroxyde D'Aluminium.
*AEC ORNL-tr-1573
EDC 16 Feb 67

Study of the First Decomposition Stage of Ferrous Monoxide, by T. Herai.
FRENCH, per, Rev. Met. Mem. Sci, Vol 63, May 1966, pp 397-406.
*BISI 5275

Scientific
Chemistry (Contd)

A Contribution to the Testing of Pickling of Additives for Their Effectiveness, by E. Hoff, G. von der Dunk.

GERMAN, per, Arch. Eisenh., Vol 35, Mar/Apr 1954, pp 115-123.
BISI 5154

Sulphur Equilibria Between Metal and Saturated Slags on the CaO-FeO-SiO₂ System, by E. Gorl.
GERMAN, per, Arch. Eisenh., Vol 37, Jun 1966, pp 441-451.
BISI 5110

Coherent Precipitation in Substitution Solid Solutions of α -Iron, by E. Hornbogen.
GERMAN, per, Arch Eisenh., Vol 37, Jun 1966, pp 523-532.
BISI 5107

The Anomalous Change in Volume of the Mixed Crystal Series (Fe,Cr)₃C and its Particular Thermochemical and Magnetic Properties, by H. Kudielka.
GERMAN, per, Arch. Eisenh., Vol 37, Sep 1966, pp 759-766.
*BISI 5250

Oxidation of Cyclohexadiene With Permanganate Peroxybenzoic Acid With Free Oxygen, by Zelinsky, Titowa, 7 pp.
GERMAN, per, Berichte der Deut Chem Gesell, Vol LXIV, 1931, pp 1399-1406.
Dept of Navy ONI Tr 2239/Navy Tr 4947

Heat Exchange During Condensation of Vapour in the Presence of Inert Gas, by J. Madzjaki, 34 pp.
GERMAN, per, Chemis-Ing-Techn., Vol 29, No 12, 1957, pp 801-813. 944162566
BSTIC 1142

On the Healing of Lattice Defects of Precipitated Cadmium Sulphide Layers, by H. Berger.
GERMAN, rpt, Ueber das Ausheilen von Gitterreihern Frisvh Aufgedampfter CdS-Schichten (I), 19p.
ACSI J-1241

Electrochemical Characteristics of Atmospheric Corrosion, by H. Kaesche.
GERMAN, per, Werks. Korros., Vol 15, 1964, pp 379-390.
*BISI 5271

Scientific
Chemistry (Contd)

Quantitative Analysis of Sodium Sulfate, Sodium Sulphite, Sodium Thiosulfate, Sodium Sulfide and Sodium Polysulfide (Na₂S₂), Sodium Oxide, and Sodium Carbonate in Coexistence, by Werner Sack.
GERMAN, per, Zeitschrift fur Angewandte Chemie, Vol 131, 1950, pp 199-206. P911144166
AEC AL-tr 223

Investigation of Order Processes in Fe₃Al and Cu₃Al Phases, by G. Lutjering, H. Warlimont.
GERMAN, per, Z. Metallk., Vol 56, No 1, 1965, pp 1-9.
*BISI 5269

Pressure Effects on the Formation of Compounds in the Y₂O₃-Al₂O₃ System, by SHIGEHARU Naka.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 69, 1966 pp 1112-1116. P911129966
AEC LA-tr-66-64

Fractional Preparation of Various Salts from Sea Water by Direct Boiling, by Shingo Tanaka,
JAPANESE, Patent No 112,088.
Dept of Inter
ACS E57 No 186

Research at the Industrial Water and Sewage Laboratory, Institute of General Chemistry, by J. Kucharski,
POLISH, per, Gospodarka Wodna, Vol XX, No 12, 1960, pp 537-540.
CFSTI TT 63-11363

Hydrogen, the Carrier of Life, by M. Taube.
POLISH, mono, Nuclear Energy Information Center, Warsaw, 1965. 138 pp.
*NASA TT 10,712

Uses of Inclusion Compounds in Polymer Chemistry, Part I, by J. F. Rabek,
POLISH, per, Polimery Tworzywa Wielkocząsteczkowe, No 12, 1965, pp 514-519.
*ACSI J-1586
ID 2204001467

Uses of Inclusion Compounds in Polymer Chemistry, by J. F. Rabek,
POLISH, per, Polimery Tworzywa Wielkocząsteczkowe, No 1, 1966, pp 1-5.
*ACSI J-1587
ID 2204001567

Scientific
Chemistry (Contd)

Problems of Methylamine in the World
and in Poland, by Wiktor Kazmierowicz,
16 pp.
POLISH, per, Przemysl Chemiczny,
Vol XLIII, No 7, 1964, pp 356-359.
P100090566
FTD TT-65-1726

Earth Sciences & Oceanography

Large Scale Geomagnetic Features in the Region
of Transition from the Asiatic Continent to
the Pacific Ocean, by O. Solov'ev,
RUSSIAN, rpt, 28 pp, 1964.
Dept of Inter
030 qC15t No 397-R

On the Dependency of the Value of Bouguer Anomaly
on the Thickness of the Earth's Crust, by
P. Ya. Galushko.
RUSSIAN, per, Akademiya Nauk Ukrainskoy SSR,
Geofizicheskii Sbornik, No 1 (12), 1965,
pp 27-31.
ACIC TC-1145

Density Characteristics of Sedimentary Rocks in
the Central Part of the Depression of the Black
Sea Region, by V.Ye. Burakovskiy, B.L. Gurevich,
et al.
RUSSIAN, per, Akademiya Nauk Ukrainskoy SSR,
Geofizicheskii Sbornik, No 1 (12), 1965,
pp 127-134.
ACIC TC-1146

Dynamic and Static Sounding of Soils in
Engineering Geology, by G. K. Bondarik,
RUSSIAN, rpt, Dinamicheskoe i Staticheskoe
Zondovanie Gruntov v Inzhenernoi Geologii,
1964, 166 pp.
*CFSTI TT 67-51257

Physics of Comets and Meteors, by
V. P. Konopleva.
RUSSIAN, rpt, Fizika Komet i Meteorov,
1965.
NASA TT F-340

Geophysical Bulletin, by A. Kh. Khrgian,
RUSSIAN, per, Geofizicheskii Byulleten, No
13, 1963, pp 1-140.
CFSTI TT 65-50117
NASA TT F-283

Scientific
Earth Sciences & Oceanography (Contd)

On Chemical Fractionation in the Silicate
Phase of Meteorites, by A. A. Yavnel'.
RUSSIAN, per, Geokhimiya, No 3, 1966,
pp 291-298.
NASA TT F-10,416

On the Electron Concentration in the Outer Iono-
sphere as Measured by Observation of Coherent
Signals from the Satellites Cosmos and Elektron,
by V. A. Misyura and G. K. Solodovnikov,
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol
VI, No 5, 1966, pp 852-857.
*Dept of Navy/APL J-921

On the Distribution of the Perturbation Field
in the Succeeding Phase of the Geomagnetic
Effect of the High-Altitude Explosion of 9
July 1962, by K. G. Ivanov,
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol
VI, No 5, 1966, pp 945-946.
Dept of Navy 5073/APL T-1944

Use of Artificial Earth Satellites for Geodesy,
by A. P. Polezhayev, 31 pp.
RUSSIAN, per, Izvestiya VUZ, Geodeziya i
Aerofotos'yemka, No. 2, 1966, pp. 27-48.
JPRS 38537

Accounting for Seleno-Solar Tidal Influences
in Gravimetric Measurements, by
Ye. A. Mudretsova, 11 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved,
Geol i Razvedka, No 10, 1962, pp 113-119.
TP5001369
FTD-TT-65-739

Geology and Prospecting, by M. V. Muratov, et al.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy, No 3, 1966, pp 3-48.
ACIC TC-1101

Viability of Microorganisms in the Turkmanian
Dessert Soil, by A. I. Zhukova and V. Kh.
Kozlova,
RUSSIAN, per, Mikrobiologiya, Vol XXXV, No 3,
1966, pp 503-508.
*NASA TT F-10,721

Some Characteristics of Plankton
Distribution in Waters of the Equatorial
Currents of the Pacific and Indian
Oceans, by M. Ye. Vinogradov,
N. M. Voronina.
RUSSIAN, per, Okeanologicheskiye
Issledovaniya, No 13, 1965. P500116166
Dept of Navy/MCO Tr 299

Scientific
Earth Science & Oceanography (Contd)

Principles of Structural Glaciology, by
P. Shumskiy,
RUSSIAN, rpt, Osnovy Strukturnogo Ledo Ved-
eniya, 1955.
Dept of Inter
250 qSh9oE

Search for Fish with Hydroacoustical Apparatus, by
V. G. Azhazha and E. V. Shishkova,
RUSSIAN, bk, Poisk Ryby Gidroakusticheskimi Priborami,
1960, 141 pp.
*CFSTI TT 67-51265

Complex Interpretation of Geophysical Obser-
vation Data in the Sea of Okhotsk and the Kuril-
Kamchatka Zone of the Pacific Ocean, by
A. G. Gaynanov, Yu. V. Tulina, et al.
RUSSIAN, rpt, Resul'taty Issledovaniy po Mezhdum-
arodnym Geofizicheskim Proektam--Seismicheskiye
Issledovaniya, No 6, 1965, pp 60-65.
ACIC TC-1158

Gamma Activation Analysis of Rocks and Ores, by
A.K. Berzin, K.F. Kuznetsov, et al.
RUSSIAN, rpt, Symposium on Radioisotopic
Apparatus in Industry and Geophysics, Warsaw,
18-22 Oct 1965. P911141466
AEC ORNL-tr-1097

Seasonal Changes of the Photoplankton of the
Polar Seas in Connection with Ice Regime, by
P. Shirshov,
RUSSIAN, per, Trudy Arkticheskoy i Antark-
ticheskoy Nauchno-Issledovatel'skoy Inst.,
Vol LXXXII, 1937, pp 42-112.
Dept of Inter
GCI E57 No 57.

The Frequency Method of Measurement in Logging
Magnetic Susceptibility, by Yu.I. Kudryavtsev.
RUSSIAN, per, Uchenye Zapiski LGU, Seriya
Fizicheskikh i Geologicheskikh Nauk, No 12,
1960, pp 87-98. P911141766
AEC-tr-6832

Experimental Investigation of Jet Formation
Behind a Shock Front During Discharge From
Divergent and Supersonic Nozzles, by A. I.
Starshinov,
RUSSIAN, per, Vestnik Leningradskogo Uni-
versiteta, Seriya Matematiki, Mekhaniki,
i Astronomiy, Vol IV, No 19, 1965, pp 166-168.
ATD 66-77

Scientific
Earth Science & Oceanography (Contd)

Femolite a New Molybdenum Sulfide, by K. Sk-
vortsova,
RUSSIAN, per, Zapiski Vses. Mineralog. obschch.,
Vol XCIII, 1964, pp 436-443.
Dept of Inter
GS70 R72 Vol 93 pp 436-443

Earthquakes in the USSR in 1962, by N. A.
Vvedenskaya, N. V. Kondorskaya et al, 246 pp.
RUSSIAN, bk, Zemletryaseniya v SSSR v 1962
godu, 1964, pp. 3-154.
JPRS 38692

A Correlation of Geophysical Fields With the
Seismic Characteristics of Northeast Bulgaria and
Part of Dobrudzha Region in the Light of Seismic
Zoning, by I. Petkov.
BULGARIAN, per, Bulgarska Akademiya Na Naukite
Izvestiya Na Geofizichniya Institut, Vol 8, 1962,
pp 221-229.
ACIC TC-1099

A Three-Level Nonlinear Prediction Model in
Spherical Coordinates, by Chu Yung-T'i,
CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol XXXI,
No 3, 1961, pp 216-233. P100112866
AFCRL Emm-66-64

Selected Papers of 1963 Annual Conference of
the Geography Society of China -- Physical
Geography, 265 pp.
CHINESE, bk, Chung-kuo T'i-li-hsueh-hui 1963
Nien-hui Lun-wen Hsuan-chi -- Tzu-jen Ti-li-
hsueh, Dec 1965, 108 pp.
JPRS 38956

A Study of the Physiographical Formation of
Western Szechuan and Western Yunnan, by Lo Lai-
hsing and Yang I-ch'ou, 86 pp.
CHINESE, per, Ti-li Chi-K'an, No. 5, Sept 1963,
pp. 1-57.
JPRS 38942

A Preliminary Study of the Problems of the Dynamic
Changing Process of Sand Dunes under the Presence
of Wind, by Chu Chen-ta, 39 pp.
CHINESE, per, Ti-li Chi-k'an, No. 5, Sept 1963,
pp. 58-78.
JPRS 38942

The Basic Characteristics of Ku-erh-pan-t'ung-
ku-t'e Desert of Daungaria, by Ch'en Chih-p'ing
21 pp.
CHINESE, per, Ti-li Chi-k'an, No. 5, Sept 1963,
pp. 79-90.
JPRS 38942

Scientific
Earth Science & Oceanography (Contd)

Sand Topography of K'a-shih Inland Delta of Tarim Basin, by Li Chu-chang, 14 pp.
CHINESE, per, Ti-li Chi-k'an, No. 5, Sept 1963, pp. 91-99.
JPRS 38942

Basic Characteristics, Formation, and Development of the Lake Basin Topography of Tsinghai Hu, by Fang Yung, 36 pp.
CHINESE, per, Ti-li Chi-k'an, No. 5, Sept 1963, pp. 100-120.
JPRS 38942

Wave Measurements at the Mouth of Haringvliet for Purposes of Morphological Study of the Bottom, 14 pp.
DUTCH, per, Deltawerken, No 36, 1966, pp 303-314.
Dept of Navy ONI Tr 2246/Navy Tr 4953

Bulletin d'Information #14,
December 1963, 60 pp.
FRENCH, per, Bulletin d'Information No 14, 1963,
Dept of Navy Tr 4986/ONI Tr 2231

French Polar Expeditions Periodic Activity Report, by Paul-Emile Victor,
FRENCH, per, Bulletin d'Information, No 16, Dec 1964, 65 pp.
Dept of Navy/ONI No 2235

A Practical Test of the Gravimetric Determination of Plumb Line Deflections, by I. Kasansky.
FRENCH, rpt, Comptes Rendus de la Commission Geodesique Baltique, 7th Session, 1934, pp 388-429.
*Dept of Navy/NOO Tr 335

Information Bulletin No 18, December 1965, 67 pp.
FRENCH, rpt, Expeditions Polaires Francaises.
Dept of Navy ONI Tr 2244/Navy Tr 4951

Mechanisms of Magnetic Relaxation in Ferrites, by R. Vautier, et al.
FRENCH, rpt, Proceedings of the International Conference on Magnetism, Sep 1964, pp 629-634.
*AEC

The Variations of the Rotational Speed of the Earth, by Anna Stoyko.
FRENCH, rpt, La Variation de la Rotation de la Terre, Jun 1964, pp 189-194. P911173966
AEC SC-T-66-0761

Scientific
Earth Science & Oceanography (Contd)

Geometric Treatment of Trajectories in the OSR Program, by Yvette Caseau.
FRENCH, rpt, No 17, Apr 1966. P911142366
AEC ORNL-tr-1379

An Attempt to Determine the Vertical and Lateral Eddy Exchange at the Depth of the Pycnocline in the Equatorial Atlantic Ocean, by Robert B. Montgomery,
GERMAN, per, Annalen der Hydrographie und Maritimen Meteorologie, No 4, 1939, pp 242-246.
Dept of Inter
GCI E57 No 60

Absolute Evaluation of Ocean Currents by Dynamic Methods, by Albert Defant,
GERMAN, per, Annalen der Hydrographie und Maritimen Meteorologie, Vol LXIX, No 6, 1941, pp 169-173.
Dept of Inter
GCI E57 No 61

Distribution of Wind and Mass as the Causes of Ocean Currents, by Walter Hansen,
GERMAN, per, Annalen der Hydrographie und Maritimen Meteorologie, No 58, 1959, pp 102-106.
Dept of Inter
GCI E57 No 58

Influence of the Earth's Magnetic Field on the Diurnal Variation of $f \cdot F_2$, (Fourier Analysis), by R. Eyfrig.
GERMAN, rpt, Conference Paper Presented at the International Radio Union, 15th General Assembly, Sept 5-19 1966.
NASA TT F-10,475

Investigations of Downward and Upward Light Measurements in the Ocean, by Joseph Joachim, 23 pp.
GERMAN, per, Deutsche Hydrographische Zeitschrift Vol III, No 5/6, 1950, pp 324-335.
Dept of Navy Tr 5042/ONI Tr 2229

Report on the State of Investigations into UV-Backscatter as an Aid in Early Fog Warning, by Frank Frungel, W. Kuntel, 11 pp.
GERMAN, rpt, International Turbulence Physics Association of Hamburg, Bismarck, Germany.
Dept of Navy Tr 4987/ONI Tr 2232

Scientific
Earth Science & Oceanography (Contd)

Theoretical Test for an Exact Solution of the Whole Problem of the Figure of the Earth, by K. Ledersteger. 50 pp.
GERMAN, per, Schweizerische Zeitschrift fur Vermessung, Kulturtechnik und Photogrammetrie, No 2, 1957.
ACIC TC-1118

Preparatory Studies and Preliminary Investigations Regarding Simulated Explosions at High Altitudes Part II. Explosions of Lead Azide Spheres in Various Air Densities, by F. Frobose, 16 pp.
GERMAN, rpt, Technical Note No T 29/65 of the Franco-German Inst of St. Louis
Dept of Navy 5033/OEI Tr 2230

A New Gravity Formula? by K. Reicheneder.
GERMAN, per, Vermessungstechnik, No 7, 1966, pp 259-262.
ACIC TC-1142

Gravity Measurements With Askania Gravimeters GS 12 in Europe and Africa, by W. Torge.
GERMAN, per, Zeitschrift fur Vermessungswesen, No 10, 1966, pp 359-370.
*ACIC TC-1156

Current Problems in the Field of Geodetical Gravimetry, by Peter Biro.
HUNGARIAN, per, Geodezia es Kartografia, Vol XVII, No 3, 1965, pp 178-185.
*FTD-HG-66-755

The Italian Base Gravity Network, by C. Morelli.
ITALIAN, per, Atti del Settimo Convegno Nazionale del Metano e del Petrolio, Vol 1, 1952, pp 451-460.
ACIC TC-1057

Regional Gravity Survey Along the Adriatic Coast, by C. Morelli.
ITALIAN, per, Pubblicazione No 66, Nuova Serie, Osservatorio Geofisico, Trieste, 1954, pp 429-443.
ACIC TC-1059

Report of the Austrian Commission for the International Earth Measurement and the Federal Department for Standards and Surveying.
ITALIAN, per, Union Geodesique et Geophysique Internationale Dixieme Assemblee Generale Rome, Sep 1954, pp 13-20.
ACIC TC-1157

Scientific
Earth Science & Oceanography (Contd)

Vertical Drains for Stabilization of Some Kinds of Soil, by J. Sokolowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 2, 1960, pp 80-89.
CFSTI TT 63-11363

Development Trends in Sludge-Blanket Clarifiers, by A. Chojnacki,
POLISH, per, Gospodarka Wodna, Vol XX, No 3, 1960, pp 123-127.
CFSTI TT 63-11363

Principal Indicators of the Quality of Water in the Goczalkowice Reservoir, by M. Tracz,
POLISH, per, Gospodarka Wodna, Vol XX, No 5, 1960, pp 211-213.
CFSTI TT 63-11363

Identification of Argillaceous Minerals by Means of Electron Diffraction, by R. Molisz and J. Domanski, et al,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 281-282.
CFSTI TT 63-11363

Anomalies of Flow of the Odra River, by L. Skibniewski,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 348-351.
CFSTI TT 63-11363

Ground-Water Flow Into Rivers and How It is to be Determined, by T. Kicinski,
POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 439-441.
CFSTI TT 63-11363

Abnormal Variations of Water Level in the Slupia River and Their Influence on the Biocenosis of That River, by J. Malej,
POLISH, per, Gospodarka Wodna, Vol XX, No 12, 1960, pp 531-534.
CFSTI TT 63-11363

General Information on the Geological Structure and Mesozoic-Cenozoic Phosphatization in Sediments of Pinar Del Rio Province, by V. Pokrishkin and V. Shirokov, 20 pp.
SPANISH, per, Nuestra Industria Revista Tecnologica, Jul-Aug 1966, pp. 20-31.
JPRS 38038

Scientific
Electronics & Electrical Engineering

Experimental Study of a Wave Converter, by P. I. Kapitsa, and L. A. Prozorova, RUSSIAN, per, Ak Nauk SSSR, Fizicheskaya Laboratoriya, Elektronika Bol'shikh Moskchnostey, No 4, 1956, pp 53-65.
*ACSI J-1582
ID 2204001067

Tower Antenna Structures, by Georgiy Adol'fovich Savitskiy, 182 pp.
RUSSIAN, bk, Antenno-Machtovyye Sooruzheniya, 1962, pp. 1-70, 98-230.
JPRS 38865

Manufacture of Thin Plates From Refractory Carbides, by B. G. Ignatyev, L. B. Mezhevenko, A. V. Kovalev, N. I. Poltoratskiy, G. S. Pomin and M. V. Yakutovich, 9 pp.
RUSSIAN, per, Atomnaya Energiya, Vol XX, No 6, Jun 1966, pp. 489-494.
JPRS 38834

Automatic Systems in Radioengineering Devices, by B. Kh. Krivitskiy, 735 pp.
RUSSIAN, bk, Avtomaticheskiye Sistemy Radiotekhnicheskikh Ustroystv, Moscow, 1962, 664 pp. PI00128966-V
FTD-HT-66-253

The Third Congress of the International Federation of Automatic Control (IFAC), by A. Vasil'ev and M. Berman, 5 pp.
RUSSIAN, per, Avtomatika i Telemekhanika, No 10, 1966, pp. 198-199.
JPRS 39125

Electrical Conductivity and Width of Forbidden Zone of Solid Solutions of Semiconductor Compounds of Indium Phosphide and Gallium Arsenide, by N. N. Sirota, L. A. Makovetskaya, 5 pp.
RUSSIAN, per, Dok Ak Nauk BSSR, Vol VIII, No 10, 1964, pp 632-633. TP6000471
FTD-TT-65-1999

Investigation of the Effect of Resonator Mirror Alignment on the Emission Parameters, by A. P. Prishivalko and Ye. K. Kopanik, RUSSIAN, per, Doklady Akademii Nauk BSSR, Vol IX, No 10, 1965, pp 654-658.
*FTD-HT-67-28

Electron-Microscope and Microdiffraction Study of Nonmetallic Inclusions in Molybdenum and Its Alloys, by N. V. Ageyev, D. V. Ignatov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXVII, 1966, pp 635-636.
*FTD-HT-66-695

Scientific
Electronics & Electrical Engineering (Contd)

Distribution Systems of Electrical Power Stations and Substations, by M. V. Rogali-Levitskiy, V. N. Stepanov and A. A. Tayts, 46 pp.
RUSSIAN, bk, Elektricheskiye Stantsii i Transformatornyye Podstantsii, Chapt. 7, 1965, pp. 199-246.
JPRS 39178

Electrochemical Transducers for Acoustic Signal Reception and Small-Displacement Measurements, by N. S. Lidorenko, I. N. Moiseyev, 9 pp.
RUSSIAN, per, Elektrotehnika, No 3, 1965, pp 3-5. TP6000221
FTD-TT-65-1875

The Development of Basic Electrical Transmission Line Structures, by B. I. Rabin, 13 pp.
RUSSIAN, rpt, Energeticheskoye Stroitel'stvo SSSR za 40 Let (1917-1957 gg.), 1958, pp. 195-204.
JPRS 39067

The Significance of the Amplitude of Pressure Pulse Oscillations for the Activity of the Carotid Sinus Baroreceptors, by V. I. Filistovich and Ya. I. Gero, et al, RUSSIAN, per, Fiziologicheskii Zhurnal, Vol LII, No 7, 1966, pp 874-883.
*FTD-HT-66-753

Industrial Hygiene Problems of Working with Ultra Short-Wave Transmitters Used in Television and Radio Broadcasting, by N. N. Goncharova and V. B. Karamyshev, et al, RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1966, pp 10-13.
ATD 66-125

Hemodynamic Indices During the Action of Super-High Frequency Electromagnetic Fields, by A. M. Monyenkova and M. N. Sadchikova, RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, No 7, 1966, pp 18-21.
ATD-66-123

Stability of Synchronized Oscillations of Weakly Coupled Self-Oscillators with Nearly Equal Powers, by G. N. Rapoport, RUSSIAN, per, Institut Elektrotehniki Ak Nauk SSSR, Sbornik Nauchno-Tekhnicheskikh Statey, No 3, 1949, pp 11-31.
*ACSI J-1610
ID 2204002667

Scientific
Electronics & Electrical Engineering (Contd)

Investigation of Parameters of Two Types of Spectrometer Stabilization Systems, by V. I. Prikhod'ko, V. G. Tishin. 19 pp.
RUSSIAN, rpt, Issledovanie Parametrov Dvukh Tipov Sistem Stabilizatsii Spektrometrov, 1966.
P911143266
AEC ANL-tr-381

Fire Battery in Operation -- Solution of "Klein Phenomena" -- Electricity from Heat.
RUSSIAN, per, Izobretatel' I Ratsionalizator, No 6, 1965, 3p.
*ACSI J-1459
ID 2204064066

Fiber-Optic Digital Position Detector, Class 42, No 179030, by V. A. Rabinovich,
RUSSIAN, per, Izobreteniya Promyshlennyye Obratzsy, Tovarnyye Znaki, No 4, 1966, pp 84-85.
*FTD-HT-66-754

USSR Data Processing Units "Iskra-1," "Iskra-2", "Poisk OK-1," and "Poisk DV-1", 5 pp.
RUSSIAN, bk, Kompleksnaya Mekhanizatsiya i Avtomatizatsiya Protsessov Obrabotki, Vydachi i Peredachi na Rasstoyaniye Nauchno-Tekhnicheskoy Informatsii, 1966, pp. 203-209 and 215-216.
JPRS 38561

Super High Frequency Scanned Antennas, by L. N. Deryugin, 226 pp.
RUSSIAN, per, Mashinostroyeniye, 1964.
Dept of Navy Tr 5038/ONI Tr 2250

Digital Computers for Controlling the Bessemer Converter Process, by D. I. Turkenich, 6 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No. 8, Aug 1966, pp. 42-44.
JPRS 38690

Use of Computer Technique and Automatic Control Systems in the National Economy, by V. I. Loskutov, 9 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, Sept 1966, pp. 36-39.
JPRS 39088

Use of Computers for Engineering Processes, by V. Ye. Laletin, 8 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No. 9, Sept 1966, pp. 39-41.
JPRS 39088

Scientific
Electronics & Electrical Engineering (Contd)

Application of Organisation Control Systems, by V. Yu. Nevrayev et al, 11 pp.
RUSSIAN, rpt, Metodicheskiye Materialy Po Soderzaniyu i Primeneniyu Sistem Organizatsionnogo Upravleniya. Vyp I Printsipy Postroyeniya Setevykh Modeley Kompleksov Operatsii, 1964.
JPRS 38762

New Materials in Engineering, by Ye. B. Trostyanskoj, B. A. Kolacheva, 932 pp.
RUSSIAN, bk, Novyye Materialy v Tekhnike, Moscow, 1962, 656 pp. P100134166-V
FTD-HT-66-269

Pneumatic Multichannel Information Transmission System with Frequency Division of Channels, by N. D. Lanin, L. A. Barskiy.
RUSSIAN, rpt, Opisaniye Izobreteniya k Avtorskomu Svidetel'stvu --- 174444, Oct. 27, 1965, pp 1-2.
ACSI J-0846

Electric Properties of Gallium Arsenide With Admixture of Gold, by M. A. Krivov, E. V. Malisova, G. S. Shishkov, 4 pp.
RUSSIAN, per, Physics Bulletin of Higher Educational Establishment, No 3, 1965, pp 148-150.
NSTIC 1769

Tunnel Diode Counting Circuits, by A. S. Sidorov,
RUSSIAN, rpt, Poluprovodnikovyye Pribory i Ikh Primeneniye Sbornik Statey, No 14, 1965, pp 131-142.
*FTD-HT-67-38

Transistorised Voltage Converters by Yu. K. Zakharov, 73 pp.
RUSSIAN, bk, Preobrazovatel'i Napryazheniya na Poluprovodnikovykh Triodakh, 1964, pp 1-102.
FTD-HT-65-81

High Temperature Stabilized Electric Arcs of High Power, by V. B. Tikhonov and Ye. A. Yakovlev,
RUSSIAN, rpt, Rabochyye Protessy v Teplovykh Dvigatel'nykh Ustanovkakh, Aviatsionnyy Institut, No 119, 1960, pp 43-71. P10081066
FTD-TT-65-1405

Scientific
Electronics & Electrical Engineering (Contd)

Laminar Plastic and Glass Plastic for Electrical Industry, by G. B. Shalun, RUSSIAN, rpt, Seriya - Sinteticheskiye Materialy, Vol VII, 1962, pp 1-28. P100036466
*FTD-MT-64-379

Multicoupled Control Systems, by M. V. Meyerov, RUSSIAN, bk, Sistemy Mnogosvyaznogo Regulirovaniya, 1965, 384 pp.
*CFSTI TT 67-51371
*NASA TT F-435

Handbook On New Radio Measuring Devices, by G. P. Shkurin, RUSSIAN, rpt, Spravochnik po Novym Radioizmeritel'nym Priboram, 1966, pp 325-354.
*ACSI J-1590
ID 2204001867

Handbook of Automatic Control Instruments with Isotope Sources, by L. I. Korotkov, RUSSIAN, bk, Spravochnik po Radiozotopnym Priboram Dlya Kontrolya i Avtomatizatsiy Tekhnologicheskikh Protsessov, 1963, 200 pp.
AEC-tr-6633

Electronic Digital Computers of the ZAM Series, by T. Pietrzykowski, 8 pp.
RUSSIAN, bk, Sredstva i Metody Mekhanizatsii Podgotovki i Polska Nauchno-Tekhnicheskoy Informatsii, Inzhenernogo i Upravlencheskogo Truda, 1965, pp. 159-166.
JPRS 38889

On the Technical Problems of the Creation of A State Network of Computer Centers in the USSR, by M. K. Rakhmanov, 9 pp.
RUSSIAN, per, Statistika i Elektronno-Vychislitel'naya Tekhnika v Ekonomike (Sbornik Statey), No. 1, 1966, pp. 20-28.
JPRB 38988

About a New Internal Combustion Engine, by M. Prigozhaya, RUSSIAN, per, Tekhnika v Sel'skom Khozysystve, No 6, 1966, pp 83-85.
*ACSI J-1307
ID 2204058066

On the Operational Reliability of Electronic Equipment, by Petre Sipos, 20 pp.
RUSSIAN, per, Telecommunicatti, Vol VIII, No 2, 1964, pp 73-78. TP5002363
*FTD-TT-65-1166

Scientific
Electronics & Electrical Engineering (Contd)

Optimal Control Problem for a Complex of Devices, by Yu. A. Rozanov, RUSSIAN, per, Trudy Ak Nauk Matematicheskii Institut, No 71, 1964, pp 88-101.
*FTD-HT-67-41

Irreversible Polarographic Waves in Binuclear Complexes of Cobalt, by I. M. Reibel, RUSSIAN, per, Trudy Kishinevskogo Sel'skokhozyaystvennogo Instituta imeni M. V. Frunze, Vol 26, 1962, pp 35-43. P911143366
AEC ANL-tr-383

Examination of the Electrochemical Properties of a Magnesium Electrode, by B. P. Yur'yev, RUSSIAN, per, Trudy Leningradskogo Politekh Inst imeni M. I. Kalinina, No 223, 1963, pp 98-108.
Dept of Navy ONI Tr 2252/Tr 4989

Investigation of Non-Stationary Oscillations in Nonlinear Systems, by Yu. A. Mitropol'skiy, RUSSIAN, per, Trudy Simpoziuma Prilozheniya Metodov Teorii Nelineynykh Kolebaniy k Zadacham Fiziki i Tekhniki, Vol III, 1963, pp 241-274.
*FTD-MT-65-117

Displacement Digitizers, by V. G. Filippov, 118 pp.
RUSSIAN, bk, Tsifratyory Peremeshcheniy, 1965, pp. 1-144.
JPRS 38957

Addition to the Theory of Mutual Synchronization of Two-Self-Oscillators, by V. N. Parygin, RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 2, 1957, pp 139-144.
*ACSI J-1611
ID 2204002767

The Analog Computer MN-14 with Input/Output in Digital Form, by V. B. Ushakov et al, RUSSIAN, per, Voprosy Vychisl. Matem. i Vychisl. Tekhn, 1963, pp 264-275.
*FTD-HT-67-37

Scientific
Electronics & Electrical Engineering (Contd)

An Input Device for Punched Tape With Circuit Number Conversion, by Yu. A. Makhmudov, N. B. Bekir-Zade.
RUSSIAN, bk, Voprosy Vychislitel'noy Matematiki i Vychislitel'noy Tekhniki, 1965, pp 161-170.
*FTD-HT-66-795

Desk-Sized Electronic Computer with Keyboard, by A. M. Shauman and M. K. Chirkov, RUSSIAN, rpt, Vychislitel'naya Tekhnika i Voprosy Programirovaniya, No 1, 1962, pp 3-10.
*FTD-HT-67-36

Computer Centers and Automatic Accounting and Control Systems in the USSR, by V. I. Loskutov, 130 pp.
RUSSIAN, bk, Vychislitel'nye Tsentry, 1966, pp. 1-118, 258-261.
JPRS 39062

Current Distribution in Permeable Electrodes Influenced by the Hall Effect in the Flow of an Electrically Conducting Medium, by Yu. P. Emets.
RUSSIAN, per, Zhur Prikl Mekh i Tekhn Fiz, No 3, 1966, pp 35-41.
*NASA TT F-10,496

Method for Obtaining Microelectronic Diode Matrices, by V. I. Savchenko.
RUSSIAN, per, Patent No 168519, 14 Feb 1963.
*FTD-HT-66-716

Pneumatic Long-Term Memory Cell for Discrete Signals, by R. Y. Fedosyev, et al,
RUSSIAN, Patent No 168,543, 30 Sept 1963.
*FTD-HT-67-13

Method of Electroslag Casting of Ingots, by B. Ye. Paton, D. A. Dudko.
RUSSIAN, per, Patent No 168703, 26 Nov 1966.
*FTD-HT-66-672

Slot Antenna With Electric Scanning, by S. M. Mikheyev.
RUSSIAN, per, Patent No 169573, 24 Nov 1964.
*FTD-HT-66-676

Electromechanical Double Band Filter, by L. A. Khatuntsev, V. K. Petrenko.
RUSSIAN, per, patent No 170590.
*FTD-HT-66-715

Scientific
Electronics & Electrical Engineering (Contd)

Cathode Ray Tube, by Yu. A. Titov.
RUSSIAN, per, Patent No 170742, 12 Nov 1964.
*FTD-HT-66-722

A Three-Phase Power Source for Parametrons, by V. Ye. Obukhov, A. P. Mikhaylenko.
RUSSIAN, per, Patent No 170765, 15 Apr 1963.
*FTD-HT-66-697

Electronic Instrument for Measuring Velocity, Distance Traversed, and Time, by D. N. Chekalov, L. G. Mulyar.
RUSSIAN, per, Patent No 170776, 4 Mar 1963.
*FTD-HT-66-694

Method for Determining the Frequency Response of Automatic Control Systems, by A. A. Vavilov, A. I. Solodovnikov.
RUSSIAN, per, Patent No 171445.
*FTD-HT-66-692

Tunnel Diode, by L. A. Logunov.
RUSSIAN, per, Patent No 171923, 25 Mar 1964.
*FTD-HT-66-700

Device for Exciting Torsional Sinusoidal Oscillations, by A. T. Bolgov, V. V. Makarov.
RUSSIAN, per, Patent No 172521, 22 May 1963.
*FTD-HT-66-703

Method of Stabilizing the Focal Spot in Electron-Beam Welders, by N. V. Podola, V. I. Salan.
RUSSIAN, per, Patent No 173587, 23 Nov 1963.
*FTD-HT-66-708

Method for Fabricating High Resistance Film Resistors, by B. A. Bochkarev.
RUSSIAN, per, Patent No 173828, 21 Nov 1964.
*FTD-HT-66-702

Wide Band Dummy Dipole Antenna, by A. S. Knyazev, V. S. Shelonin.
RUSSIAN, per, Patent No 174676, 4 Dec 1962.
*FTD-HT-66-709

Scientific
Electronics & Electrical Engineering (Contd)

Analog-Digital Device for Simulating Problems of Nonstationary Heat Conduction, by V. V. Il'in, G. I. Vasil'yev. RUSSIAN, per, Patent No 175750, 18 Jul 1964.
*FTD-HT-66-712

Shift Register, by V. P. Khvedynich, et al, RUSSIAN, Patent No 176,720, 8 Jul 1964.
*FTD-HT-67-12

An Accumulator Based on Rod Elements, by R. A. Turov. RUSSIAN, per, Patent No 178173, No 2, 1966, pp 116-117.
*FTD-HT-66-793

Biax Magnetic Logical Element, by V. I. Kuznetsov, et al, RUSSIAN, Patent No 179,088, 15 Jan 1964.
*FTD-HT-67-11

A Computing Method for the Linear Time Optimal Control System, by Tai Ju Wei and Li Pow So, et al, CHINESE, per, Tzu Tung Hua Hsueh Pao, Vol II, No 3, pp 123-135. P100080966
FTD-TT-65-1921

Large-Scale Analog Computer With Digital Control and Readout, by V. Kryzaneck. CZECH, per, Ceskoslovenska Akademie Ved, No 9, 1963, pp 199-227.
*FTD-HT-66-798

Dynamic Pulse Delay Electronic Machines with Solitary Delay Duration Intended for Czechoslovakian Automatic Computation Machines Epos 1 and Epos 2, by B. Shramek, V. Valenta, 12 pp. CZECH, per, Ceskoslovenska Akademie Ved Ustav Matematickych Stroj. Stroj na Zpracovani Informaci, No 9, 1963, pp 59-67. P100073466
FTD-TT-651496

Operating Conditions of Thermoelectric Refrigeration Units Supplied DC Current With an Alternating-Current Component, by Bohumil Ramert. CZECH, per, Elektrotechnicky Obzor, Vol LIV, No 3, 1965, pp 128-130.
*FTD-TT-66-784

Scientific
Electronics & Electrical Engineering (Contd)

A Phase Demodulator of the Second Harmonic With Width Modulation, by V. Ju. Vorobkevich, I. S. Daniljuk, et al. 13p. CZECH, per, Slaboprouty Obzor, Vol 25, No 1, 1964, pp 21-24. P 100090966
FTD-TT-65-1616

Contactless Measurement of Thickness and Electrical Resistance of Layers, by Bohdan Carniol, CZECH, per, Technicka Praca, No 8, 1965, pp 599-601.
*ACSI J-1589
ID 2204001767

Effect of Impurities on the Recovery Stages of Electrical Resistivity in Nickel Bombarded by Electrons at Low Temperatures, by J. J. Oddou, C. Minier-Cassayre, et al. FRENCH, rpt. No 269. P911144366
AEC AL-tr-220

The Balance and Franklins Lightning Rod, by M. Jacob, FRENCH, per, Bulletin Belge de Metrologie, No 306, 1966, pp 60-61.
Dept of Comm
Nat'l Bureau of Standards

A New Load Cell, by C. H. Lesoot, J. Reynaud. FRENCH, per, C.D.S. Circ., No 4, 1966, pp 1023-1036.
*BIBI 5233

The Linearity of Photomultipliers: Effects of Dynode Currents, by P. Moatti. FRENCH, per, L'Onde Electrique, Vol 43, 1963, pp 787-793. P911142066
AEC NP-tr-1436

A Formula for the Response of Electroacoustic Transducers and Its Relations to Electrical Equivalent Circuits, by F. Spandock, GERMAN, per, Acustica, Vol XVII, 1966, pp 34-42. P50p117066
Dept of Navy/NRL No 1076

Introduction to the use of Available Computer Programs for Shielding Design, by S. Sasse. GERMAN, rpt, Anleitung zum Gebrauch der bei der Arbeitsgruppe fur Bautechnischen Strahlenschutz zur Verfugung stehenden Rechenprogramme, I, Setzen-Programm und Grace I, Apr 1964.
*AEC ORNL-tr-1515

Scientific
Electronics & Electrical Engineering (Contd)

Selection of the Correction Element in Linear Multidimensional Systems, by Zdislaw Pogoda, POLISH, per, Archiwum Automatyki i Telemechaniki, Vol X, No 3, 1965, pp 341-352.

*FTD-HT-67-35

Present and Future Design and Location of Local Power Distribution Transformers, by Gert Wuttke, 7 pp.

GERMAN, per, Elektrie, Vol. 20, No. 10, Oct 1966, pp. 394-396.

JPRS 38701

Unified Treatment of the Various Output Amplifier Circuits, by A. Banik.

GERMAN, per, Nachrichtentechnik, No 1, 1965, pp 23-29.

ACSI J-1174

ID 2204054666

Thermoelectric Cooling, by K. Stecker, 18 pp.

GERMAN, per, Radio und Fernsehen, No 16, 1964, pp 494-501. TP6000126

FTD-TT-65-1688

Tachymeter Theodolite Model Te-D1.

GERMAN, rpt, Tachymeter Theodolite, Te-D1, 20 p.

ACSI J-1296

ID 2204057466

Simultaneous Differential Rectification and Relief Drawing with the Stereotrigomat System, by O. Weibrecht.

GERMAN, per, Vermessungstechnik, No 8, 1966, pp 311-318.

ACSI J-1349

ID 2204059366

Electrical Measuring Device for Determining the Heat Conductivity of Gases, by Richard Klisch.

GERMAN, Patent No 929,936. 7 July 1966.

ACSI J-1245

ID 2204056266

Undissolvable Contact Connection, 4 pp.

GERMAN, Patent No 1,073,055.

Dept of Comm

Patent Office

Scientific
Electronics & Electrical Engineering (Contd)

Danger of Accidental Electrical Contacts, by A. Reale, P. Salvadori.

ITALIAN, per, Giorn. Fis., Vol 6, No 4, Oct-Dec. 1965, pp 243-258. P911171566

AEC ORNL-tr-1386

Redundant Representations and Operating Speed in Digital Computers, by J. Bankowski and Ya. Ban'kovski,

POLISH, per, Archiwum Automatyki i Telemechaniki, Vol X, No 3, 1965, pp 375-390.

*FTD-HT-67-35

Preliminary Measurements of Parameters of Thermistor Infrared Detectors, by E. Ruzna, B. Schmidt. 8p.

POLISH, per, Archiwum Elektrotechniki, Vol 13, No 3, 1964, pp 720-724. P 100091166

FTD-TT-65-1725

Vertex Line Convection in Curved Conduits as a Basis for Computations of Losses at the Walls, by Romuald Puzyrewski, 65 pp.

POLISH, per, Prace Polska Akademia Nauk Instytut Maszyn Przeplywowych, No 17, 1963, pp 63-108. P100009767-V

FTD-TT-65-1501

Electrodes for Halotrons Contacted With HgTe, by S. Ignatowicz, 8 pp.

POLISH, per, Przeglad Elektroniki, Vol V, No 4, 1964, pp 171-175. TP5002898

FTD-TT-65-1651

Universal Amplifier Circuit for Solid State Techniques, by A. Filipkowski.

POLISH, per, Przeglad Elektroniki, No 5, 1965, pp 234-240.

*FTD-HT-66-726

Consideration of Infallibility Aspects When Planning Basic Systems of Digital Machines, by A. Kojemski, Z. Swiatkowski, 5 pp.

POLISH, per, Przeglad Elektroniki, Vol V, No 5, 1964, pp 252-255. TP5002901

FTD-TT-65-1654

Papers of the Industrial Institute of Telecommunications. (Selected Articles) 28p.

POLISH, per, Pracownicy Instytut Telekomunikacji, Vol 13, No 42, 1963, pp 45-52, 77-80. P 100073566

FTD-TT-65-1498

Scientific
Electronics & Electrical Engineering (Contd)

Thermoelectric Cooling, by Z. Poslt,
POLISH, per, Sdelovaci Technika, No 7, 1964,
pp 248-252. P100091266
FTD-TT-65-1762

Contributions to the Study of the Dielectric
Properties of Some Plastics Manufactured from
Indigenous Materials, by Emil Lazarescu,
RUMANIAN, per, Elektrotehnica, Vol XIII, No 1,
1965, pp 10-13.
*FTD-HT-67-42

Education Problems in the Field of Computer
Engineering in Yugoslavia, by Jernej Virant,
11 pp.
SERBO-CROATIAN, per, Automatika, Nos. 2-3,
Mar-June 1966, pp. 96-99.
JPRS 38958

Energy Conversion (Non-propulsive)

Impurities in Cesium Used in Thermionic Con-
verters, by V.I. Subbotin, M.N. Ivanovskiy, et al.
RUSSIAN, rpt, 1966 P911140466
AEC-tr-6831

Calculation of a Mono-Pulse of a Quantum
Generator at Instantaneous Connection of
Interferometer, by A. M. Samson, V. A. Savva,
8 pp.
RUSSIAN, per, Dok Ak Nauk BSSR, Vol IX, No 1,
1965, pp 22-26. TP6000476
FTD-TT-65-2001

A Little Battery Gives Millions of Volts,
by Ye. Muslin.
RUSSIAN, per, Izobretatel' I Ratsionalizator,
No 4, 1965, pp 5-6.
*ACSI J-1478
ID 2204064566

High Voltage Nano-Second Pulse Generator, by
M. Yu. Gel'tsel and A. D. Panfilov, et al,
RUSSIAN, per, Pribery i Tekhnika Eksperimenta,
No 3, 1966, pp 101-107.
*ACSI J-1585
ID 2204001367

Scientific
Energy Conversion (Non-propulsive) (Contd)

Use of Thermoelectric Generators for the
Power Supply of Cathode Protective Devices,
by M. A. Dvorovoy.
RUSSIAN, per, Stroitel'stvo Truboprovodov,
No 9, 1965, pp 25-26.
*ACSI J-1388
ID 2204061266

Wave Method of Calculating Impulse Loads
of Turbine Blades, by A. A. Moiseyev,
A. A. Petrov, 7 pp.
RUSSIAN, per, Sudostroyeniye, No 11, 1964,
pp 33-34. TP6000222
FTD-TT-65-1990

Device for Triggering Discharge Tubes in
a High-Voltage Pulse Generator, by
Yu. P. Usov.
RUSSIAN, per, Patent No 175085,
24 Nov 1964.
*FTD-HT-66-723

Symposium on High Energy Forming.
CHINESE, per, K'o Hsueh T'ung pao, No 10,
1965, p 936.
*FTD-HT-66-779

A. Precious Means for the Conversion of
Energy: The Fuel Cell, by C. Mijoux.
FRENCH, per, Atomes, No 221, May 1965,
pp 139-142.
*ACSI J-1368
ID 2204060166

Progress in Fuel Cell Development, by
F. V. Sturm et al.
GERMAN, per, Ingenieur Digest, Vol 2, No 5,
1966, 6p.
ACSI J-1428
ID 2204062466

Electricity from Fuel Cells, by
H. G. Plust.
GERMAN, per, Neue Zurcher Zeitung, No 950,
15 March 1961, pp 3-8.
*ACSI J-1455
ID 2204063766

Fuel Cells: Principle of Operation,
Design, and Present State of the Art in
Fuel Cell Development, by H. G. Plust.
GERMAN, per, Neuen Zurcher Zeitung, No 133,
(3), 12 Jan 1966, pp 1-8.
ACSI J-1352
ID 2204059766

Scientific
Energy Conversion (Non-propulsive) (Contd)

Fana Electric Power Plant, 1961; Aust-Agder Power Plant, 1961; Oppdal Electric Power Plant 1962; Asker Municipal Electric Power Supply, 1961; Askim Electric Power Plant, 1962; Varanger Power Station, 1961; NORWEGIAN, per, Elektroteknisk Tidsskrift, Jun 5, 1963, pp 263-265.
Dept of Inter
ACS E57 No 119

Certain Problems of Unstable Combustion in the Chambers of Liquid Rocket Engines, by Henryk Krajewski, 29 pp.
POLISH, per, Technika Lotnicza, No 1, 1965, pp 1-9.
FTD-TT-65-1729

Materials

Electrical Prospecting with the Telluric Current Method, by M. Berdichevskiy,
RUSSIAN, rpt, 1965, 216 pp.
Dept of Inter
TN210 C6B No 1 Vol 60

High-Speed Stamping Out of Metals, by Yu. P. Sogrishin and N. F. Koyakovskiy,
RUSSIAN, per, Byulleten Tekhniko-Ekonomicheskoy Informatsiy, No 9, 1964, pp 25-28.
P100073066
FTD-TT-65-1372

Thermal Emf of the Solid Solutions of Indium Phosphide and Gallium Arsenide.
RUSSIAN, per, Dok Ak Nauk BSSR, Vol IX, No 7, 1965, pp 435-437.
*FTD-HT-66-771

Theory of Surface Ionisation on Glowing Metals, by A. I. Anselm.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol III, 1934, pp 329-334.
*NASA TT F-10,686

Effect of Lanthanum and Yttrium on the Recrystallization of Molybdenum, by V. P. Gol'tsev,
RUSSIAN, per, Doklady Akademii Nauk BSSR, Vol IX, No 3, 1966, pp 196-198.
*FTD-HT-67-29

Scientific
Materials (Contd)

Evolution of the Catalytic Function of the Glutamate Oxidase System, by L. P. Zubok, Z. S. Kagan.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol CLXVI, No 4, 1966, pp 982-985.
*NASA TT F-10,679

Work Function of W-11f, Ta-11f, Re-11f, Re-Zr, W-Re Alloys, by B. Ch. Dyubua, O. K. Kultashev.
RUSSIAN, per, Fiz Metallov i Metalloved, Vol XXI, No 3, 1966, pp 396-402.
*FTD-HT-66-766

Investigation of Optical Charge Exchange in Silicon Carbide by the EPR Method, by A. I. Veinger, S. M. Ryvkin.
RUSSIAN, per, Fizika Tverdogo Tela, Vol VIII, Aug 1966, pp 2355-2359.
*NASA TT F-10,690

Investigations of the Distribution of Admixtures in a Turbulent Flow of a Liquid Metal Coolant, by M.N. Ivanovskiy, et al.
RUSSIAN, rpt, International Atomic Energy Agency Symposium on "Alkali Metal-Coolants - Corrosion Studies and System Operating Experience" held at Vienna on Nov 28 - Dec 2, 1966.
*AEC
EDC 15 Feb 67

History of the Technology of Electrodeposition of Metals, by O. I. Pavlova,
RUSSIAN, bk, Istoriya Tekhniki Elektroosazhdeniya Metallov, 1963, pp 128.
*CFSTI TT 67-51362

Determination of the Diffusion Coefficients in Alloys With Several Phases, by V. T. Borisov, V. M. Golikov, et al.
RUSSIAN, per, Iz Ak Nauk SSSR Metallurgiya i Gornoe Delo, No 4, 1964, pp 147-152. P200135866
RSIC-604

Preparation and Study of Certain Electric Properties of Single Crystals of Zinc Arsenides, by Ya. A. Ugay, T. A. Zyubina.
RUSSIAN, per, Izvestiya Akad Nauk SSSR Neorganicheskiye Materialy, Vol 2, No 1, 1966, pp 9-16.
ACSE J-1133
ID 2204053766

Scientific
Materials (Contd)

The Dependence of Certain Electro-and Thermophysical Properties of Zirconium Monocarbide on Carbon Content in the Homogeneity Region, by A. I. Avgustinik, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Neorgan Mat, Vol II, No 8, 1966, Pp 1439-1444.
NASA TT F-10,448

Interaction Between Carbides of Transition Metals and Their Oxides, by

T. Ya. Kosolapova, et al.
RUSSIAN, per, Izv Akad Nauk SSSR, Ser Neorgan Mat, Vol II, No 8, 1966, pp 1516-1523.
NASA TT F-10,447

The Rate of Nonmetallic Inclusions in Steel, by S. I. Popel.

RUSSIAN, per, Izv. VUZ Chern. Met., No 4, 1962, pp 5-13.
*BISI 5314

The Effect of Aluminium on the Nature and Distribution of Non-Metallic Inclusions in 18-Ton Rimming Steel Ingots, by M. I. Vainshtok.

RUSSIAN, per, Izv. VUZ Chern Met., No 5, 1966, pp 45-50.
BISI 5151

Generalized Methods of Calculating the Heat Extraction in the Secondary Cooling Zone in the Continuous Casting of Steel, by A. D. Akimenko.
RUSSIAN, per, Izvest. VUZ-Chern. Metallurgiya, No 1, 1965, pp 155-158.
HB 6966

Oxidation of Carbon and Bath Heating Rate During the Finishing of an O.H. Heat, by P. G. Terziyan.

RUSSIAN, per, Izv. VUZ Chern. Met., No 1, 1965, pp 32-36.
*BISI 5317

Contribution to the Problem of Thermal Hardening of Large Steel Sections of Poor Hardenability, by V. T. Svischenko.

RUSSIAN, per, Izv. VUZ Chern Met., No 4, 1965, pp 169-173.
BISI 5210

Scientific
Materials (Contd)

The Behavior of Gases in the Crystallization Process of Killed-Steel Ingots, by

A. Kh. Urazgil'deyev, et al.
RUSSIAN, per, Izvest. VUZ-Chern. Metallurgiya, No 8, Sep 1965, pp 69-73.
HB 6757

Influence of the State of Oxidation of the Liquid Metal and of the Rate of Pouring on the Structure of Semikilled Steel Ingots, by V. F. Polyakov.

RUSSIAN, per, Izvest. VUZ-Chern. Met, Vol 8, No 12, 1965, pp 45-50.
HB 6806

Suction Conditions in Laboratory Sintering Experiments, by V. I. Korotich, P. N. Grekov.

RUSSIAN, per, Izvest. VUZ-Chern. Met, Vol 9, No 4, 1966, pp 37-41.
HB 6898

Rapid Control of Metallic Iron Content in Metallized Ores, by Yu. S. Yusufin.

RUSSIAN, per, Izv. VUZ Chern. Met, No 11, 1965, pp 180-182.
*BISI 5322

Physical Properties of High-Basicity Sinter, by B. A. Livshits, G. S. Vasil'ev.

RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1965, pp 22-28.
*BISI 5325

Texture Formation in Silicon Iron During Primary Recrystallization, by Yu. S. Avraamov.

RUSSIAN, per, Izv. VUZ. Chern Met, No 8, 1966, pp 120-123.
*BISI 5240

Mechanism of Corrosion of Metals in Narrow Cracks and Crevices, IV. Corrosion of Aluminum and Some of Its Alloys, by I. L. Rosenfeld, I. K. Marshakov, 10 pp.
RUSSIAN, per, Journal of Physical Chemistry, Vol XXXI, 1957, pp 2328-2335.
Dept of Navy ONI Tr 2742/Navy Tr 4950

Finishing Synthetic Leather with Modified Polyamides Based on Polyvinyl Chloride, by Yu. B. Kipnis et al.

RUSSIAN, per, Kozhevenno-Obuvnaya Promyshlennost' USSR, Aug. 1966, pp 15-18.

*ACSI J-1386
ID 2204060866

Scientific
Materials (Contd)

Use of Synthetic Tanning Agents Based on Lignin in Conjunction with Melamine-Formaldehyde Resins for Improving the Properties of Leather, by V. G. Vitovtsev. RUSSIAN, per, Kozhevenno-Obuvnaya Promyshlennost', No 6, 1966, pp 20-22.
ACSI-J-1309
ID 2204058266

Certain Questions of Analysis of Isolated Phases and Phase Composition of Alloys, by N. F. Lashko, 22 pp. RUSSIAN, per, Mashinostroyeniye, 1965, 5-19.
FTD-MT-66-16

Phase-Shift Analysis of Alloys of Type EI437B With Variable Carbon Content, by N. I. Blok, N. F. Lashko, et al. 15 pp. RUSSIAN, per, Mashinostroyeniye, 1965, pp 28-38.
FTD-MT-66-16

Surface Oxidation and Phase Change in Heat-Resisting Nickel Alloys in Loaded State, by N. I. Blok, N. F. Lashko, et al. 10 pp. RUSSIAN, per, Mashinostroyeniye, 1965, pp 39-47.
FTD-MT-66-16

Phase Composition of Surface Layers of Heat-Resisting Alloys After Heating in Different Media, by M. N. Kozlova, N. F. Lashko, et al. 10 pp. RUSSIAN, per, Mashinostroyeniye, 1965, pp 202-210.
FTD-MT-66-16

Mechanization of Work on a Blast Furnace 2300 Cubic Meters (81,200 CF) in Volume, by L. N. Arist. RUSSIAN, per, Metallurg, Vol 11, No 6, 1966, pp 21-22.
HB 6931

Continuous Measurement of the Temperature of Molten Steel in the Open-Hearth Furnace, by I. S. Nefedov, Yu. F. Shashkin. RUSSIAN, per, Metallurg, Vol 11, No 6, 1966, pp 30-31.
HB 6932

Scientific
Materials (Contd)

Controlling the (Blast Furnace) Gas Flow Pattern by Changing the Tuyere Overhang, by R. S. Vanin. RUSSIAN, per, Metallurg, Vol 11, No 7, 1966, pp 11-12.
HB 6947

Use of Gases With a High Calorific Value in Blast-Furnace Hot Stoves, by E. V. Toropov. RUSSIAN, per, Metallurg, Vol 11, No 8, 1966, pp 8-11.
HB 7012

Desulfurization of Pig Iron Outside the Blast Furnace, by I. P. Belousov, et al. RUSSIAN, per, Metallurg, Vol 11, No 10, 1966, pp 12-14.
HB 7019

Metallurgy of Copper and Nickel, by A. A. Tseidler, RUSSIAN, bk, Metallurgiya Medi i Nikelia, 1964, 320 pp.
Dept of Inter
TN780 T7a

Experimental Investigation of the Temperature Gradient Effect on the Distribution of Hydrogen in Zirconium, by V.S. Emel'yanov, N.V. Borkov. RUSSIAN, per, Metallurgy Metalloved. Chistykh. Metallov, Sbornik Nauch. Rabot, No 5, 1966, pp 12-21. P911171966
AEC BNL-tr-101

Synthesis and Properties of 1-Silyl-4-(Vinylsilyl) Benzenes, by E. N. Znamenskaya, N. S. Nametkin, 13 pp. RUSSIAN, per, Neftekhimiya, Vol IV, No 3, 1964, pp 487-493. TP5002816
FTD-TT-65-1665

Technological Variables of Superflux Sinter Production From KWA Ores, by B. Ya. Miller. RUSSIAN, per, Obogashchenie Rud., Vol 10, No 3, 1965, pp 28-31.
*DIEI 5321

Analysis of Metalloids by Activation With Photons and Charged Particles, by Ch. Engelmann, G. Cabane. RUSSIAN, rpt, Paper Presented at the Conference "Modern Trends in Activation Analysis, Apr 19-22, 1965 - Texas. P911172366
AEC IS-tr-45

Scientific
Materials (Contd)

Sintering of Cermet Products Compressed by Impact loads, by O. U. Roman, E. A. Doroshkevich. RUSSIAN, per, Poroshkovaya Metallurgiya, Vol VI, June 1966, pp 6-10.
*NASA TT F-10,660

Boron Carbonitride as Electrically Non-Conducting Material for the Protection of Metallic Thermocouples, by T.V. Dubovik, L. I. Struk. RUSSIAN, per, Poroshkovaya Metallurgiya, No 5, 1966, pp 107-110.
HB 7015

State Diagram Structure of Titanium-Copper System, by V. N. Yerezenko, Iu. I. Buyanov. RUSSIAN, per, Poroshkovaya Metallurgiya, Vol VI, June 1966, pp 77-87.
*NASA TT F-10,661

The Subject of Constraint Equations Relating Stresses and Strains in Fiber Glass, by G. A. Wang, Fou Feng. RUSSIAN, per, Prilozheniya k Zhurnalu Kibernetika i Mekhanika, Vol I, No 2, 1965, pp 110-115.
NASA TT F -10,379

Effect of Technological Parameters on the Properties of Oxide Layers on Aluminum, by D. Lange, 9 pp. RUSSIAN, per, Przeglad Elektroniki, Vol V, No 10, 1964, pp 486-490. TP5002900
FTD-TT-65-1653

A Survey of Fatigue Theory, by V. S. Ivanova. RUSSIAN, rpt, Sb Ustal Metal, Akad Nauk SSSR, pp 3-18, 1958,
NASA TT F-10,392

Scientific
Materials (Contd)

An Efficient Method of Production Control for [Blast-Furnace] Sinter Reducibility, by A. G. Neyasov. RUSSIAN, per, Stal', Vol 18, 1958, pp 26-32.
HB 4732

The Use of Optically Active Coatings in the Solution of Plane Elasto-Plastic Problems, by A. F. Mozhanskaya, A. P. Fedorov. 8p. RUSSIAN, per, Sudostroyeniye, No 1, 1965, pp 21-23. P 100099466
FTD-TT-65-1991

Studying Cyclic Strength of Metals by the Method of Recording Fatigue Diagrams, by T. A. Lebedev and T. K. Marinets, et al, RUSSIAN, per, Trudy institut Metallurgiy, 1962, pp 141-146. P100073366
FTD-TT-65-1402

Calculation of Working Stresses During Pressing of Hollow Shapes in Dies With Built-in Core-fin, by M. Z. Yermanok, L. S. Skoblov. RUSSIAN, per, Tsvetnyye Metally, No 3, 1966, pp 74-77.
*FTD-HT-66-728

Effectiveness of Certain Inhibitors in the Pickling of Scale-Covered Low Carbon With H_2SO_4 , by A. S. Afanas'ev. RUSSIAN, per, Ukrain. Khim. Zhur, Vol 32, No 7, 1966, pp 766-769.
*BIBI 5253

Certain Problems of Elastic-Plastic Oscillations of Rods, by A. I. Buravtsev, 9 pp. RUSSIAN, per, Vest Leningrad Univ, Ser Mate Mekh i Astron, No 1, 1965, pp 77-83.
TP6000250
FTD-TT-65-1830

Thermal Degradation of Polyethylene, by N. A. Slovokhotova, M. A. Nagrupov, 12 pp. RUSSIAN, per, Vysokomolekulyarnyye Soyed, Vol VI, No 11, 1964, pp 1974-1979.
TP5002903
FTD-TT-65-1691

Scientific
Materials (Contd)

Protective Metallic and Oxide Coating Corrosion of Metals and Research in the Field of Electro-Chemistry, by N. P. Fedot'yev, RUSSIAN, bk, Zaschitnye Metallicheskiy i Ok-sidnye Pokrytiya, Korroziya Metallov i Issled-ovaniya v Oblasti Elektrokhimiy, 1965, 438 pp.
*CFSTI TT 67-51361

Heat Resistance of Dispersion-Hardened Nickel, by T. G. Kravchenko, et al. RUSSIAN, per, Zashchita Metallov, Vol II, May-June 1966, pp 312-317.
*NABA TT F-10,665

Electro-Erosion Method of Preparing Specimens of Cemented Carbides for X-ray Investigations, by U. A. Asanov, et al. RUSSIAN, per, Zavodskaya Laboratoriya, Vol 32, No 6, 1966, pp 727.
HB 6972

A Method for Obtaining Corrugation, by D. A. Gokhfel'd, A. G. Laptevskiy. RUSSIAN, per, Patent No 174600, 1965, p 19.
*FTD-HT-66-794

Preparation of Cathodophosphorescent Materials, by R. I. Smirnova, E. Ya. Pesina. RUSSIAN, per, Patent No 175162, 22 May 1964.
*FTD-HT-66-731

Method for Obtaining Vacuum-Tight Cermet Junctions, by A. Ya. Makarkin, I. I. Metelkin. RUSSIAN, per, Patent No 175865, 19 Apr 1962.
*FTD-HT-66-711

Properties and Uses of Rare Earth Metals, by Li Tso-shun, 15 pp. CHINESE, per, Hsin Chien-she, No. 10, Oct 1965, pp. 79-85.
JPRS 38637

Effect of Length and Temperature of Ingot Mold on the Location of Subcutaneous Blowholes in Rimmed-Steel Ingots, by V. Parma. CZECH, per, Hutnik, Vol 16, No 2, 1966, pp 72-74.
HB 6895

Flattening Wire to Produce Strip. CZECH, per, Hutnik (Prague), Vol 16, No 2, pp 76-79.
*BISI 5284

Scientific
Materials (Conrd)

Welded Casting Moulds of Copper, by V. Ledvinka. CZECH, per, Hutnik (Prague), Vol 16, No 6, 1966, pp 276-286.
HB 6950

Effect of Some Metallurgical Factors on the Mechanical Properties of Rolled Products of Great Thickness, by J. Kermes. CZECH, per, Hutn. Listy, Vol 20, No 4, 1965, pp 261-267.
*BISI 5248

Influence of Slag Basicity and of Silicon Content in Ferro-Manganese on the Technico-Economic Indicators of Blast Furnace Work, by I. Janik. CZECH, per, Hutn. Listy, Vol 21, Mar 1966, pp 153-159.
*BISI 5337

Continuous Casting of Free-Cutting Steel, by R. Strobl, F. Benes. CZECH, per, Hutn. Listy, Vol 21, No 9, 1966, pp 599-604.
HB 7004

Effect of Heat Treatment on Toughness of Ferrite-Pearlite Steels, by J. Vrtal. CZECH, per, Materialovy Sbornik, No 8, 1964, pp 107-123.
BISI 5047

Relation of Lacquer Coat Thickness of the Fundamental Features of Tinned Sheet to Its Corrosion Resistance, by V. Kosek. CZECH, per, Obaly, Vol 12, No 1, 1966, pp 6-10.
*BISI 5291

The Influence of Duplex Structure on the Hot Workability of High-Alloy CR and CR/BI Steels, by J. Elfmark. CZECH, per, Sbornik VSB v Ostrave, Vol 11, No 4, 1965, pp 731-749.
*BISI 5241

Electroslag Remelting of Steels and Alloys, by I. Kasik. CZECH, per, V.U.H.Z. Praha I. Hutnicka Konference, VSB v Ostrave, Sbornik Referatu Ocelarska Bakce, 1965, pp 187-196.
BISI 5136

Scientific
Materials (Contd)

Cohesion Testing of Natural or Sintered Iron Ores, by Ch. Gh. Thibaut.
FRENCH, per, Assoc. Techn. de la Siderurgie Francaise, CT/DW Service 526, (66-620), Jul 1966.
BISI 5170

First Results of Refining Tests on an Industrial Scale With all-Scrap Melts in the Gueugnon Open-Hearth Furnace, by R. Dessain.
FRENCH, per, C.D.S.Circ., Vol 18, No 1, 1961, pp 139-152.
BISI 5191

Remarks on the Determination of Aluminium, by E. Jaudon.
FRENCH, per, C.D.S.Circ., Vol 23, Mar 1966, pp 791-793.
*BISI 5306

Metallurgical Study of Various Cases of Corrosion in Urea, by J. M. Vassal.
FRENCH, per, Chambre S.P.A.S., 26 Apr 1966, pp 89-102.
BISI 5106

Influence of Modification of Sintering of Two Hematites, by A. Bragard.
FRENCH, per, C.N.R.M., No 5, Dec 1965, pp 3-23.
*BISI 5323

The Automatic Application of "Hot Melts" in the Surface Treatment and Joining of Paper and Cardboard, by F. Chevassus.
FRENCH, per, Emballages, No 237, Jun-Jul 1966, pp 167-173.
*ACSI J-1382
ID 2204060666

Recarburizing Tests on Cast Iron and Steel by Carbon Injection, by B. Trentini, M. Bossi.
FRENCH, per, Fonderie, Jan 1959, pp 25-39.
BISI 5103

Titanium in Cast Irons, by S. Parent.
FRENCH, per, Fonderie, No 244, Jun 1966, pp 205-226.
*BISI 5331

Scientific
Materials (Contd)

Refractories for the Teeming of Steel, by L. Halm.
FRENCH, per, Iravid Re-Pr-6, 11-15 May 1964, pp 1-4J.
*BISI 5249

The Role of Stresses in the $\alpha = \beta$ Transformation of Plutonium, by B. Spriet.
FRENCH, per, Memoires les Scientifiques de la Revue de Metallurgie, Vol 63, 1966, pp 563-570.
P911174366
AEC LA-tr-66-69

The Formation of Different Phases in a Molten-cast Magnesia-chrome-brick (Corhart 104) in Relation to the Temperature, by J. Recasens, et al.
FRENCH, rpt, Ninth International Refractories Colloquium, Aachen 25-26th Oct, 1966.
*AEC LB/G/2504

Thin Films Formed During Surface Oxidation of Metals, by J. Bardolle, F. Bouillon.
FRENCH, per, L'Oxydation des Metaux, Vol 1, pp 88-115.
*BISI 5229

Orientation of Reaction Products on the Surface of a Metal, by J. Bardolle.
FRENCH, per, L'Oxydation des Metaux, Vol 1, pp 134-151.
*BISI 5230

Composition of Fumes from Sulphur-Containing Fuels, by M. Turpin.
FRENCH, per, Rev. Met., Vol 62, Oct 1965, pp 923-934.
*BISI 5324

Radioactive Tracer Study of the Effect or Uphill Casting on Steel Cleanliness, by A. Kohn, J. Arnoult.
FRENCH, per, Rev. Met., Vol 63, Sep 1966, pp 667-672.
*BISI 5305

Determination of Surface Analytical Deterioration of Steels Using the Micro-Analyzer With Electron Probe, by R. Castro, J. Lefevre.
FRENCH, per, Rev. Met. Mem. Sci., Vol 63, 1966, pp 571-573.
*BISI 5330

Scientific
Materials (Contd)

A New Method of Refining Iron by Electron Transfer in Ferrous Oxide, by P. Desmarestaux, P. Lacombe.
FRENCH, per, Rev. Met. Mem. Sci., Vol 63, Jan 1966, pp 11-19.
*BIBI 5264

New Developments in the Field of Granulation Technology and the Hardness Properties of Granules, by W. Pietsch.
FRENCH, per, Rev Tech. Luxembourgeoise, Vol 2, 1966, pp 68-90.
*BIBI 5273

Improved Waterproof Sheet Material, 5 pp.
FRENCH, Patent No 1,042,107.
Dept of Comm
Patent Office

Fancy Footwear and Process of Its Manufacture, by Usines M. Wissaert,
FRENCH, Patent No 1,271,522.
Dept of Comm
Patent Office

Improved Photocopying Machine, 12 pp.
FRENCH, Patent No 1,324,009.
Dept of Comm
Patent Office

Internal Friction at High Temperatures and Diffusion of Vacancies Between Dislocations, by B. Escaig. 16 pp.
GERMAN, per, Acta Metallurgica, Vol 10, 1962, pp 829-834.
AEC MLM tr-1276

Recovery Stage III in Decarbonized Tungsten After Neutron Irradiation at 4.5°K, by H.H. Kuhlmann, H. Schultz.
GERMAN, per, Acta Metallurgica, Vol 14, No 6, 1966, pp 798-800. P921173166
AEC AI-tr-216

The Question of the Decomposition of Texture and Lattice Faults in the Recrystallization of Cold Worked Soft Iron, by F. Wever, E. Botticher.
GERMAN, per, Arch. Eisenh., Vol 12, Dec 1965, pp 935-939.
*BIBI 5290

Scientific
Materials (Contd)

Effect of Silicon, Manganese and Sulphur on the Reactions Between Pig Iron Melts and Blast Furnace Slags With Magnesium Oxide and Alumina, by W. Gelsen.
GERMAN, per, Arch Eisenh., Vol 36, Nov 1965, pp 779-790.
BIBI 4928

Influence of the Manganese Content on the Precipitation Behaviour of Nitrogen-Containing Ferrous Alloys, by M. Nacken, U. Kuhlmann.
GERMAN, per, Arch. Eisenh., Vol 37, Apr 1966, pp 331-339.
BIBI 5039

Effect of Phosphorus, Manganese and Sulfur on the Iron-Carbon-Oxygen Equilibria Within the Concentration Ranges of Liquid Steel at Steelmaking Temperatures, by H. Schenck, H. Hinze.
GERMAN, per, Archiv Eisenhüttenwesen, Vol 37, No 7, 1966, pp 545-550.
HB 6981

Investigations Into the Precipitation Behaviour in High-Strength Maraging Nickel Steels, by K. Detert.
GERMAN, per, Arch Eisenh., Vol 37, Jul 1966, pp 579-589.
BIBI 5131

New Accelerated Test Methods for the Study of the Corrosion Resistance of Surfaced-Protected Steel Sheet. Part I - 'Corrosion Testing of Phosphated, but not Painted, Steel Sheet, by W. Machu, L. Schiffman.
GERMAN, per, Archiv Eisenhüttenwesen, Vol 37, No 8, 1966, pp 679-686.
HB 6977

Direct Electrochemical Determination of the Oxygen Content of Liquid Metals, Part III: 'Investigations on Liquid Silver, Tin and Lead', by W.A. Fischer, W. Ackermann.
GERMAN, per, Archiv Eisenhüttenwesen, Vol 37, No 9, 1966, pp 697-700.
HB 6995

Effect of Sulphur on the Activity of Carbon in Liquid Iron, Cobalt, and Nickel at 1600° C, by W. A. Fischer, W. Ackermann.
GERMAN, per, Arch. Eisenh., Vol 37, No 10, 1966, pp 779-781.
*HB 7010

Scientific
Materials (Contd)

A Method for 'Three-dimensional' Observation of Structures, by W. Bottcher, et al.
GERMAN, per, Arch. Eisenh. Vol 37, No 10, 1966, pp 805-807.
*HB 7009

Studies of the Solubility Kinetics of Hydrogen in Iron, Nickel, Cobalt, and Copper, by H. Schenck, K. W. Lange.
GERMAN, per, Arch. Eisenh. Vol 37, No 10, 1966, pp 809-812.
*HB 7011

Quantitative Study of Corrosion on Phospahte and Paint-Coated Steel Sheel: (Part III of new Short-Time Tests for Corrosion Resistance of Surface-protected Steel Sheel), by W. Machu, L. Schiffmann.
GERMAN, per, Arch. Eisenh. Vol 37, No 10, 1966, pp 829-833.
*HB 7007

Behaviour of Fuel Cans of Zirconium Alloys on Hydrogen Absorption, by W. Durrschnabel.
GERMAN, per, Atomwirtschaft, Vol 10, 1965, No 11, pp 560-562; No 12, pp 682-684. P911174566
AEC NP-tr-1446

Contact Free Continuous Measurement of Tin Coatings on Steel Strip.
GERMAN, per, Bander Bleche, June 1966, Jun 1966, p 374. Demag-Thomson Automation G.m.b.H., Duisburg.
BISI 5185

Automation of Ultrasonic Te Ting of Flats, by F. A. Silber, O. Ganglbauer.
GERMAN, per, Berg- Hutten. Monatsh. Vol 111, Sep 1966, pp 393-398.
*HB 7005

Statistical Analysis on the Ferrite Content of Austenitic Steels, by S. Meyerhofer, H. Kohl.
GERMAN, per, Berg-Butten. Monatsh., Vol 111, No 9, 1966, pp 443-453.
*BISI 5304

Electrical Resistance Welding of Tinplate, by W. Seyderhelm.
GERMAN, per, Blech, Vol 9, 1962, pp 431-435.
BISI 5016

Mixture Constituents - Iron Quality.
GERMAN, per, Deutsch Robeisen, 1966, (2.11), p 2.
*BISI 5236

Scientific
Materials (Contd)

The Creep Behaviour of Two Chromium Nickel Steels Containing 15 percent Chromium, 35 percent Nickel and Differing in Carbon Content, by W. Schmidt.
GERMAN, per, IEW Techn. Ber. Vol 6, No 2, 1966, pp 41-53.
BISI 5058

Investigation of the High Temperature Embrittlement of Nickel-alloys Subsequent to the Irradiation Experiment Mol-1-D, by H. Bohn, et al.
GERMAN, rpt, Gesellschaft fur Kernforschung m.b. H. Karlsruhe, PSB-Bericht #184/66 24 Feb 1966, 5 pp.
*AEC
EDC 15 Feb 1967

The Filtration of Light-Metal Melts, by A. Buckley.
GERMAN, per, Die Giesserei, Vol 51, No 21, 1964, pp 655-659.
HB 6657

Moulding Sands Containing Polystyrene Foam and Moulds and Cores Made of it, by G. Angeloff.
GERMAN, per, Giesserei, Vol 53, 14 Apr 1966, pp 258-262.
BISI 5092

Production of S. G. Iron of High Elongation in the AS-Cast State From Low-Manganese Pig Iron Using the Acid-Lined Cold-Blast Cupola, by R. Hummer, E. Nichtelberger.
GERMAN, per, Giesserei-Praxis, No 18, 1966, pp 325-330.
*BISI 5246

Technological Values for Determining Riser Dimensions for Iron-Carbon-Silicon Alloys and Especially for Cast Iron. Part II, by W. Patterson, W. Koppe.
GERMAN, per, Giesserei Techn.-Wiss. Beihefte, Vol 14, No 4, 1962, pp 235-245.
HB 6835-II

The Influence of Hardening Techniques on Core Toughness and Fatigue Strength of Chromium-Manganese and Nickel-Chromium-Containing Carburising Steels, by H. Tamscher, E. Stecher.
GERMAN, per, Hart. Techn. Mitt. Vol 20, No 4, 1965, pp 263-267.
BISI 5132

Scientific
Materials (Contd)

Effective Corrosion Protection for Steel Sheet by Sendzimir Galvanizing Plus Coating, by H. Benninghof.
GERMAN, per, Industrie Lackierbetrieb, Vol 34, No 8, 1966, pp 361-365.
*BISI 5259

The Effect of Chromium (III) Oxide on the Sintering Behavior of Uranium Dioxide, by K. Winter.
GERMAN, per, Kernenergie, Vol 8, No 7, 1965, pp 413-423. P911128366
AEC WAPD-tr-39

The Corrosion Behavior in Water and High Temperature Steam of Welded Joints of Zirconium Alloys With Low Niobium Content, by H. Spindler.
GERMAN, per, Kernenergie, Vol 8, No 12, 1965, pp 679-684. P911172566
AEC WAPD-tr-43

Surface Hardening, Corrosion and Scaling Protection [of Steel] by Metallic Surface Impregnation, by O. Mulders, G. Becker.
GERMAN, per, Kleppzig Fachberichte, Vol 72, No 10, 1964, pp 399-403.
HB 6909

Adhesion and Layer Build-up in Plasma-Arc and Flame Spraying, Part 2, by A. Matting, H. D. Steffens.
GERMAN, per, Metall, Vol 17, 1963, pp 905-922. P911141666
AEC ORNL-tr-1393

The Protective Mechanism of Emulsifiable Oils Against Damage to Materials by Cavitation and Corrosion, by H. Wiegand, R. Schulmeister.
GERMAN, per, Metalloberfläche, Vol 20, No 6, 1966, pp 265-268.
HB 6933

Approximate Calculation of Build-up Factors for Gamma Radiation in Normal Concrete, by S. Sasse.
GERMAN, rpt, Näherungsweise Berechnung vom Zuwachsfaktoren der Gammastrahlung in Zementbetonen, Nov 1964.
*AEC ORNL-tr-1516

Gamma-Ray Examination of Hot-rolled Steel, by A. Kohn.
GERMAN, per, Neue Hutte, Vol 10, No 9, 1965, pp 561-564.
HB 6952

Scientific
Materials (Contd)

Hydrometallurgical Production of Nickel From Silicate Containing Ores 1. Roasting of FE-NI Lumps, by R. Schrader.
GERMAN, per, Neue Hutte, Vol 11, No 4, 1966, pp 214-218.
*BISI 5283

Influence of Niobium, Titanium and Boron on the High Temperature Properties of a Cr12W2V Steel, by J. Koutsky.
GERMAN, per, Neue Hutte, Vol 11, Jun 1966, pp 367-372.
BISI 5198

Investigation of the Disintegration of Vacancy Agglomerates in Neutron-irradiated Nickel by means of the Critical Shear Stress, by D. Ast, et al.
GERMAN, per, Physica Status Solidi, Vol 17, 1966, pp 269-284.
*AEC

Contribution on the Polishability of Stainless Steels, by A. Schoberl.
GERMAN, per, Radex Rund, June 1966, pp 170-183.
BISI 5057

Refractory Building Materials for Vacuum-Metallurgical Steelmaking Processes, by K. E. Granitzki.
GERMAN, per, Rheinstahl-Technik, No 3, 1966, pp 91-100.
*BISI 5289

Effect of Preliminary Surface Treatment of Steel on the Anti-Corrosion Behaviour of Paint Coatings in Sea Water, by E. Brauns, H. Determann, U. Kalla, 10 pp.
GERMAN, per, Schiff & Hafen, Vol 16, No 9, Sept 1964, pp 3-8. 94416266
NTIC 1727

Steel Plant for a New Combination (LD/Kaldo) Oxygen Top Blowing Process, by H. Schirmer, G. Urban, et al.
GERMAN, per, Stahl und Eisen, Vol 86, No 13, pp 771-782.
HB 6927

Experience With Classified Powdered Lime in the Basic Open Hearth Process, by K. O. Zimmer.
GERMAN, per, Stahl Eisen, Vol 86, 14 Jul 1966, pp 887-891.
BISI 5098

Scientific
Materials (Contd)

The Possibilities of Binding Nitrogen in Deep Drawing Rimmed Steel With Chromium and Vanadium for the Purpose of Decreasing Susceptibility to Ageing, by P. Werthebach, L. Elsing.
GERMAN, per, Stahl Eisen, Vol 86, 11 Aug 1966, pp 1024-1032.
*BIBI 5096

Investigation on the Effect of a Short-Time Recrystallising Annealing Treatment on the Mechanical and Technological Properties of Unalloyed Thin Steel Strip, by H. H. Weigel.
GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966, pp 1290-1300.
*BIBI 5254

Effect of Manufacturing Conditions on the Service Performance of Hot Galvanized Wire (Including Discussion), by R. Nunninghoff.
GERMAN, per, Stahl Eisen, Vol 86, No 20, 1966, pp 1300-1313.
*HB 7006

New Features of A Blast Furnace at Ruhrort and First Operating Results, by H. T. Brandt, et al.
GERMAN, per, Stahl Eisen, Vol 86, No 21, 1966, pp 1345-1354
*HB 7002

Metallurgical Studies on Oxygen Steel Melts, Top Blown From High-Phosphorous Pig Iron, by K. von Ende.
GERMAN, per, Stahl Eisen, Vol 86, Oct 1966, 20, 1408-1418.
*BIBI 5234

Automatic Ultrasonic Inspection of Billets for Internal Defects, by H. Beck, R. Specht.
GERMAN, per, Stahl und Eisen, Vol 86, No 21, 1966, pp 1418-1423
HB 7003

Using Additions of Al, Ti, Zr and N When Making High Speed Steels, by G. Richau.
GERMAN, per, Die Technik, Vol 18, Jul 1963, pp 473-475.
*BIBI 5311

Resin Impregnated Waterproof Paper and Cardboard, by H. W. Laus.
GERMAN, per, Verpackungs Rundschau, 9th Special Edition, 1966, pp 12, 14, 16.
*ACSI J-1369
ID 2204060266

Scientific
Materials (Contd)

Thermo-dynamic Relations on the Passivity of Iron, by T. Markovic, 19 pp.
GERMAN, per, Werkstoffe und Korrosion, No 7, 1964, pp 543-550.
Dept of Navy ONI Tr 2233/Navy Tr 4946

Investigations of Iron Corrosion Caused by Bacteria, by J. J. Frenzel.
GERMAN, per, Werks Korros, Vol 16, Aug 1965, pp 651-656.
*BIBI 5260

Study of the Influence of Hydrogen Sulphide and Sulphur Dioxide on the Corrosion Behaviour of Austenitic Nickel-Chromium Steels Exposed to Sulphuric-Acid-Containing Sodium Sulphate Solutions, by G. Herbsleb, W. Schwanck.
GERMAN, per, Werks. Korros, Vol 17, Sep 1966, pp 745-750.
*BIBI 5239

Contribution to the Spectrometric Analysis of Metal Chips. 1 - Determination of Manganese and Silicon in Briquettes Formed From Steel Chips. 2 - Improvement in the Chip Briquetting Method by High Compacting Pressures, by S. Eckhard.
GERMAN, per, Z. Analyt. Chem, Vol 208, Nos 4 and 6, 1965, pp 241-247; 401-407.
BIBI 5030

Development of Laminar Velocity Distribution and its Significance for Viscosity Measurements, by L. Schiller.
GERMAN, per, Zeitschrift fur Angewandte Mathematik und Mechanik, Vol 2, No 2, 1922, pp 96-106.
P911143566
AEC ANL-tr-387

A Rapid Method for Determination of Susceptibility to Corrosion of Steel, by U. F. Franck, D. Better.
GERMAN, per, Z. Physik. Chem., Vol 232, 1966, pp 152-160.
*BIBI 5280

Relation Between the Metallurgical Factors and the Microstructure of Alloy Steels With 2.25 percent CR and one percent MO Contents, by J. Hosnek.
HUNGARIAN, per, Koh. Lapok, No 10, 1965, pp 443-447.
*BIBI 5279

Scientific
Materials (Contd)

The Manufacture of ThO₂ - UO₂ Ceramic Bodies, by M. Gabaglio, A. Liscia.
ITALIAN, per, Energia Nucleare, Vol 13, No 4, 1966, pp 173-181. P911172166
AEC WAPD-tr-42

The Effect of Isothermal Annealing on the High Temperature Creep Properties of a CR-MO Steel Type P 11 ASTM, by A. Myallonier.
ITALIAN, per, Met. Ital., Vol 56, No 6, 1964, pp 205-209.
*BISI 5261

X-Ray Spectrographic Analysis of Ferrous Materials for Controlling a Pyrite-Treatment Plant, by F. Rinaldi, P. Aguzzi.
ITALIAN, per, Met. Ital., Vol 57, No 11, 1965, pp 415-419.
*BISI 5262

Preparation of Pellets Prereduced from Mixtures of Ore and Coal, by A. Palazzi, G. Drigo.
ITALIAN, per, Met. Ital., Vol 58, No 3, 1966, pp 87-92.
*BISI 5288

Reduction of Iron Ores With Active Sponge and Extraction of Metallic Iron as Iron Pentacarbonyl, by C. Dufour.
ITALIAN, per, Met. Ital., Vol 68, No 2, 1966, pp 53-58.
*BISI 5266

Production of Strip From Iron Powder, by Kimura.
JAPANESE, per, Japan Soc. Powder Met., Vol 110, No 9, 1963, pp 172-180.
HB 6976

On the Removal of Scale From Wire Rod, by M. Kakimi, M. Fujita.
JAPANESE, per, Sumitomo Metals, Vol 18, Jan 1966, pp 35-40.
*BISI 5312

Rapid Determination of Oxygen in Liquid Steel by the Nephelometric Method, by A. Kawano, I. Fujimoto.
JAPANESE, per, Tetsu to Hagane, Vol 42, No 10, 1956, pp 1463-1464.
HB 6913

Scientific
Materials (Contd)

Behaviour of the Inclusions Formed in High-Chromium Free-Cutting Steel. Part II of 'A Study of Inclusions in Free-cutting Steel', by T. Araki, et al.
JAPANESE, per, Tetsu to Hagane, Vol 49, No 10, 1963, pp 1463-1466.
HB 6988

Effect of Two-Stage Cold Rolling on the Deep Drawability of Low-Carbon Rimmed Steel Sheet, by S. Sakoda, et al.
JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2093-2094.
HB 7017

The Supersonic Flow Conditions for Gaseous Oxygen at a Laval Nozzle. Part I of "Kinetics of Blowing Reactions in Basic Oxygen LD Furnaces", by K. Kawakami
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 706-708.
HB 6114

Rate of Complex Deoxidation of Manganese and Aluminium. Part V of "Kinetic Research into the Deoxidation of Steel", by T. Kawawa, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 783-786.
HB 6767

Seamy Defects in Hot Strip From Capped Steel, by K. Morinaga, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1895-1898
HB 6914

Mixing of Liquid Steel and Dissolution of Ferroalloys During DH Degassing. Part XI of "Application of Radioactive Isotopes in Steelmaking", by H. Mori, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1898-1901.
HB 6826

Cold-Rolling and Annealing Textures in Iron and Steel, by H. Abe.
JAPANESE, per, Tetsu to Hagane, Vol 52, May 1966, pp 882-910.
BISI 4992

On the Rate of Absorption of Nitrogen in the Liquid Iron Containing Superactive Elements, by M. Inouye, T. Cho.
JAPANESE, per, Tetsu to Hagane, Vol 52, No 9, 1966, pp 1418-1421.
*BISI 5299

Scientific
Materials (Contd)

Conservation of Metal Monuments, by K. Malinowski,
POLISH, bk, Biblioteka Muzealnictwa i Ochrony Zabytkow, 1963, 238 pp.
*CFSTI TT 67-56116

Microelements - Manganese, Iron, Boron, Copper, Cobalt, Zinc and Molybdenum - in Meadow and Marsh Vegetation, by S. Liwski,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 383-384.
CFSTI TT 63-11363

Photometric Determination of Traces of Lead in Pig Iron, Foundry Iron and Steel, by J. Jurczyk.
POLISH, per, Hutnik (Poland), Vol 32, No 11, 1965, pp 394-398.
*BISI 5320

Effect of Some Factors on the Quality for Self-Fluxing Sinter, by E. Mazanek, S. Jasienska.
POLISH, per, Hutnik (Polish), No 5, 1966, pp 163-170.
BISI 5155

Contribution to the Spectroanalysis of Small Aluminium Contents in Steel, by J. Kestowicz.
POLISH, per, Hutnik (Poland), Vol 33, No 9, 1966, pp 369-371.
*HB 7008

Determination of Traces of Boron in Steel, by St. Gregorczyk, J. Mrozinski.
POLISH, per, Hutnik (Poland), Vol 33, No 10, 1966, pp 426-431.
HB 7022

Technology of Processing Electrical Insulating Thermoplastics, by Tadeusz Sulima,
POLISH, per, Polimery Tworzywa Wielkocząsteczkowe, Vol X, No 8, 1965, pp 322-323.
*CFSTI TT 67-56060

Preliminary Micro-Pelletizing of Sinter Mix as a Method of Intensifying the Sintering of Iron Ores, by M. Kowalewski.
POLISH, per, Prace Inst. Hutniczych, Vol 17, No 2/4, 1965, pp 97-114.
*BISI 5315

Scientific
Materials (Contd)

Development of a Method of Beneficiation of Pena Colorado Mexican Magnetite Ore, by A. Molicka.
POLISH, per, Prace Inst. Hutniczych, Vol 17, No 6, 1965, pp 323-328.
*BISI 5327

Production of Tar-Bonded Dolomite Refractories and Performance in the First Russian Trials in Bof, by V. Bieda.
POLISH, per, Prace Rady Nauk-Techn. Huty Lenina, Vol 15, 1964, pp 108-118.
HB 6675

Rapid Microscopical Determination of Phosphide Eutectic in Grey Iron, by K. Sekowski.
POLISH, per, Prz. Odlew, Vol 12, No 3, 1962, pp 78-83.
*BISI 5152

Thermodynamic Properties of Liquid Mg-Ga, Mg-In, and Mg-Tl Alloys, by H. Slaby.
POLISH, per, Wiadomosci Chemiczne, No 2, 1966, pp 126-128.
*FTD-HT-66-778

On the Specific Consumption of Aluminum for the Deoxidation of Steels Intended for Castings, by L. Apa.
RUMANIAN, per, Metalurgia, Vol 17, No 8, 1965, pp 406-410.
HB 6737

The Effect of the Silicon Content on the Mechanical and Physical Properties and on the Fine Crystalline Structure of Silicon Steels After a Thermomechanical Treatment at Elevated Temperatures, by N. Sassu.
RUMANIAN, per, Studii Cerc. Met., Vol 10, No 1, 1965, pp 31-48.
BISI 4959

Chromite Deposits in Yugoslavia, by Doctor Slobodan Jankovic, 27 pp.
SERBO-CROATIAN, per, Rudarski Glasnik, No. 3, Jul-Sept 1966, pp. 87-102.
JPRS 38676

Calibration and Evaluation in X-Ray Fluorescence Analysis of Alloyed Steels, by E. Lovanas, W. Fugmann.
SWEDISH, per, Jernkont. Ann., Vol 150, No 2, 1966, pp 99-110.
BISI 5069

Scientific
Mathematical Sciences

Methods in the Theory of Linear Differation Equations, by S. F. Feslchenko, RUSSIAN, bk, Asimptoticheskiye Metody v Teoriy Lineinykh Differentsial'nykh Uravneniy, 1966, 252 pp.
*NASA TT F-458

Generalized Finite-difference Method, by T. S. Bashakmadze. RUSSIAN, per, Differentsial'nye Uravneniya, Vol 2, No 5, 1966, pp 614-618
*Navy tr APL/JHU J-900

A Geometric Method for Determining the Parameters of Motion of Spacecraft in a Newtonian Field of Force, by G. V. Mozhayev. RUSSIAN, per, Inzh Zh, Vol V, No 6, 1965, pp 1103-1109.
NASA TT F-10,459

Solution of the Basic Biharmonic Problem for a Wide Class of Regions by the Method of Summary Representations, by G. N. Polozhiy. RUSSIAN, per, Prikl Mekh Otdel Mat Mekh Kibern Akad Nauk U.S.S.R., Vol I, No 12, 1965, pp 1-8.
NASA TT F-10,402

Certain Mathematical Problems Arising During the Combined Operatoin of Digital Computers, by D. A. Pospelov, RUSSIAN, rpt, Trudy Mosk. Energ. In-ta, Vychislitel'naya Tekhnika, Trudy MEI., No 53, 1963, pp 97-110.
*FTD-HT-67-33

Formulation of Solutions With Linear Differential Equations With Quasiperiodic Coefficients by Means of the Accelerated Convergence Method, by Yu. A. Mitropol'skiy, A. M. Samoylenko. RUSSIAN, per, Ukr Mat Zh, Vol XVII, No 6, 1965, pp 42-59.
NASA TT F-10,370

Journal of Computer Mathematics and Mathematical Physics. (Selected Articles) RUSSIAN, per, Zhurnal Vychislitel'noy Matematiki I Matematicheskoy Fiziki, Vol 4, No 3, 1964, pp 495-511, 604-610.
P 100086066
FTD-MT-65-582

Scientific
Mathematical Sciences (Contd)

Codes for the Study of Criticality Problems (IBM 7094), by Jean Moreau, Hubert Rabot, et al. FRENCH, rpt. P911141566
AEC ORNL-tr-1367

The Use of Electronic Computers in Solid-State Physics for a General Transformation of Complicated Mathematical Expressions (Analogue of Algebraic Calculation With Literal Symbols), by A. Scholz. GERMAN, rpt, 1964. P911140066
AEC NP-tr-1434

Calculation of Foster's Parameters of Distribution with the Use of Deciles, by Z. Kaczmarek, POLISH, per, Gospodarka Wodna, Vol XX, No 2, 1960, pp 77-80.
CFSTI TT 63-11363

Remarks on the Determination of Numerical Coefficients in Empirical Equations, by J. Ostromecki, POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 388-390.
CFSTI TT 63-11363

A Few Further Remarks on Determination of Numerical Coefficients in Empirical Equations, by W. Kollis, POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 390-392.
CFSTI TT 63-11363

Mechanical, Industrial, Civil & Marine Engineering

Camera With Optical Compensator for Observing Artificial Earth Satellites, by Kh. I. Potter, 11 pp. RUSSIAN, per, Ak Nauk SSSR. Astron Sovet. Komissiya Pribor Novaya Tekh v Astron. Materialy Sovesh., 1963, pp 50-61. P100104366
FTD-TT-66-38

A Study of the Radial-Axial-Flow Turbine With Low Blade Heights and Large Clearances, by L. N. Odivanov, A. P. Tunakov. RUSSIAN, per, Aviats Tekh, No 1, 1964, pp 133-144.
NASA TT-F-10,441

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Automated Drives and Their Elements,
205 pp.
RUSSIAN, bk, Avtomatizirovannyye Privody
i Ikh Elementy, 1962, pp 1-160. P100077666-V
FTD-MT-64-289

Beams, Plates and Shells on Elastic Foundations,
by V. Z. Vlasov and N. N. Leont'yev,
RUSSIAN, bk, Balki, Plity i Obolochki na
Uprugom Osnovaniy, 1960, 354 pp.
CFSTI TT 65-50135
NASA TT F-357

Mesh-Reinforced Concrete Floor Structures,
by V. Kreitan,
RUSSIAN, per, Beton i Shelezobeton, Vol IX,
1962, pp 401-407.
Dept of Inter
ACS E57 No 163

Theory for Rapid Determination of Reliability
Indexes for Machine and Instrument Parts, by
V. N. Treyer,
RUSSIAN, per, Doklady Akademii Nauk BSSR, Vol
IX, No 8, 1965, pp 541-543.
*FTD-HT-67-30

The Convergence of Approximate Natural
Frequencies of Vibrations of a Free
Beam With Variable Parameters to the
Exact Natural Frequencies of the Beam,
by K. Ya. Kukhta.
RUSSIAN, per, Dopovidi Ak Nauk Ukr RSR,
No 2, 1966, pp 151-154.
*FTD-HT-66-783

Computing Devices in Complex Automation
of Power Distribution Systems, by
V. M. Sin'kov, A. V. Bogoslovskiy.
RUSSIAN, per, Elektrichestvo, No 1,
1965, pp 1-6.
*FTD-HT-66-772

Axial Flow Compressor Stage with Degree
of Reaction 0.75, by G. A. Khanin.
RUSSIAN, per, Energomashinostroyeniye, No 8,
1965, pp 5-7.
*ACSI J-1460
ID 2204064166

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Temperature Field of a Turbine Rotor Cooled
by the Passage of Vapor Through Circular Channels
Inside the Blade Stem, by D. A. Pereverzev
and L. V. Provolotskiy, et al,
RUSSIAN, per, Energomashinostroyeniye, No 9,
1965, pp 24-27.
*FTD-HT-66-743

Designing Two-Cascade Compressors,
by A. M. Topunov, B. A. Tikhomirov,
13 pp.
RUSSIAN, per, Energomash, No 5, 1965,
pp 29-32. P100077466
FTD-IIT-66-246

Mine Superstructures and Surface Equipment,
104 pp.
RUSSIAN, handbk, Gornoye Delo- Entsikloped-
icheskiy Spravochnik, 1959, pp. 66-81, 348-
381
JPRS 38683

Forced Breakage Oscillation of Liquid
in Pipes, by M. S. Natanzon.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR
Mekhanika, No 2, 1965, pp 33-42.
*ACSI J-1341
ID 2204058566

Selection of the Optimum Parameters of a
Supersonic Ramjet Engine with a Heat Exchanger,
by V. T. Vorogushin. 10p.
RUSSIAN, per, Izvestiya VUZ Aviatsonnaya
Tekhnika, No 4, 1961, pp 75-81. P 100091066
FTD-TT-65-581

The Relationship Between the Oxygen Content
of Open Hearth Steel and Melting Practice, by
A. A. Kazakov.
RUSSIAN, per, Izvest VUZ Chern Met, No 11,
1964, pp 59-65.
BIBI 5112

The Influence of a Second Phase on the
Structural Mechanism of Austenite Grain
Formation, by N. N. Ilyukhin.
RUSSIAN, per, Izvest. VUZ Chern. Met., No 3,
1965, pp 146-151.
BIBI 5113

Loss of Hot Metal From the Bath During
Oxy-Fuel Lancing in the LD-Process, by
S. S. Volkov.
RUSSIAN, per, Izv. VUZ Chern Met, No 5,
1966, pp 43-44.
BIBI 5150

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Curvature of Bi-Metal Strips During Rolling, by A. A. Nefedov, V. N. Ershov.
RUSSIAN, per, Izv. VUZ. Chern. Met., No 10, 1966, pp 100-103.
*BIBI 5227

Methods for Protection of Textile Materials from Bacterial Damage, by N. V. Kalugin and I. A. Yermilova,
RUSSIAN, per, Izvestiya VUZ Tekhnologiya Tekstil'noy Promyshlennosti, No 4, 1965, pp 30-36.
*ACSI J-1584
ID 2204001267

New Fiber Forming Polymers, by M. M. Koton.
RUSSIAN, per, Khimicheskiye Volokna, No 3, 1966, pp 3-10.
*ACSI J-1477
ID 2204064466

Obtaining Flame Resistant Viscose and Polyacrylonitrile Fibers, by Z. A. Rogovin.
RUSSIAN, per, Khimicheskiye Volokna, No 3, March 1966, pp 27-30.
*ACSI J-1367
ID 2204060066

Glue-Weld Joints in Machine Building by G. G. Kanter, V. N. Shavyrin, et al, 147 pp.
RUSSIAN, bk, Kleyesvarnyye Soyedineniya v Mashinostroyeni, 1964, pp 1-200.
*FTD-HT-65-279

Reference Catalog on Pumps, by D. N. Azarkh, N. V. Popova, et al. 66 pp.
RUSSIAN, bk, Masovy Katalog-Spravochnik, 1960, pp 85-90, 142-145; 154-160; 197-203; 242-262. F100009867-V
*FTD-TT-65-1786

Effect of the Number of Rotor Blades on the Characteristics of a Mixed-Flow Compressor, by A. N. Sherstyuk, Ye. N. Zaychenko.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Aviat Tekh, No 4, 1965, pp 125-132.
*FTD-HT-66-769

Determining Theoptimal Width of Bladeless Diffusers of a Single-Stage Centrifugal Compressor, by A. N. Sherstyuk, V. P. Sokolov.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Energetika, No 4, 1965, pp 58-65.
*FTD-HT-66-767

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Paved Lumber Roads, by A. S. Ivankovich.
RUSSIAN, per, Lesnaya Promyshlennost', No 6, 1966, pp 22-23.
*ACSI J-1389
ID 2204061366

The Reaction of Carbon Dioxide and Finely Dispersed Calcium Oxide in the Presence of Water Vapor, by O. K. Davtyan, et al.
RUSSIAN, rpt, Nauchn Yezhegodnik Odessk, Univ im I. I. Mechnikova, Khim Fakul'tet, Vypusk 2, 1961, pp 128-129.
NASA TT F-10,287

Plasma in Power Engineering, by E. Blum.
RUSSIAN, per, Nauka i Tekhnika, No 3, 1966, pp 4-6.
*ACSI J-1373
ID 2204061166

Use of Linear Correlation Methods in Various Sciences, by I. Rabinovich, 7 pp.
RUSSIAN, per, Nauka i Tekhnika, No. 8, Aug 1966, pp 7-9.
JPRS 38959

Stability of Systems With Delay, by S. N. Shimanov.
RUSSIAN, rpt, Paper Presented at the 2nd All-Union Conference on Theoretical and Applied Mechanics, Jan 29-Feb 5, 1964.
NASA TT F-10,488

Investigation of the Specific Pressures During Rolling of Metal Powders, by V. P. Katashinskiy, G. A. Vinogradov.
RUSSIAN, per, Poroshk. Met., No 3, 1966, pp 21-26.
BIBI 5186

Thickness Measurement of Thin films During Their Production Process in Vacuum, by O. M. Sorokin, D. I. Dzhioyeva.
RUSSIAN, per, Priboiy i Tekhn Eksperim, Vol XI, No 2, 1966, pp 187-190.
NASA TT F-10,461

X-Ray Study of the Component Atomic Scattering and Structural Defects of Titanium Carbide, by M. P. Arbutov, B. V. Khayenko.
RUSSIAN, per, Poroshkovaya Met, Vol VI, No 3, 1966, pp 64-70.
NASA TT F-10,426

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Some Methods for Forming and Sintering Carbides, by E. Briyak, Kh. Lesnyak.
RUSSIAN, per, Poroshkovaya Met, Vol VI, No 4, 1966, pp 85-109
NASA TT F-10,425

Forced Vibration of a System of Coaxial Rotors Taking Into Account the Gyroscopic Effect of Disks, by V. O. Bauer,
RUSSIAN, per, Prochnost i Dinamika Aviatsionnykh Dvigatelay, Sbornik Statey, No 2, 1965, pp 201-254.
*ACSI J-1606
ID 2204002467

An Investigation of the Process on Heat Transfer With Nozzle Cooling in the Continuous Casting of Steel, by N. A. Urusova, I. N. Kurilekh.
RUSSIAN, per, Sbornik Nauchnykh Trudov, No 8, 1965, pp 120-125.
BISI 5165

Handbook of Hydraulic Resistance, by I. E. Idel'chik,
RUSSIAN, bk, Spravochnik po Gidravlicheskim Soprotivleniyam, Koeffitsienty Mestnykh Soprotivleniy i Soprotivleniya Treniya, 1960, 517 pp. P911169266-V
AEC-tr-6630

Handbook of Fishing Gear and Its Rigging, by N. N. Andreyev,
RUSSIAN, bk, Spravochnik po Orudiyam Lova, Setesnastnym Materialam i Promyslovomu Snaryazheniyu, 1962, 454 pp.
CFSTI TT 66-51046

Accelerated Determination of Reliability and Life of Machine Parts, by K. P. Chudakov and A. I. Kubarev,
RUSSIAN, per, Standartizatsiya, No 7, 1965, pp 33-36.
*FTD-HT-67-22

Use of Explosives in Machine Building and Assembling, by L. Urban.
RUSSIAN, per, Strojirenska Vyroba, Vol XIV, No 2, 1966, pp 104-110.
*FTD-HT-66-781

Machine Technology, by V. V. Danilevskiy.
RUSSIAN, bk, Tekhnologiya Mashinostroyeniya, 1963, pp 259-266.
*FTD-HT-66-718

Scientific
Mechanical, Industrial, Civil & Marine Engineering(Contd)

Theory of Explosive Substances, by K. K. Andreyev, A. F. Belyayev, 854 pp.
RUSSIAN, bk, Teoriya Vzryvchatykh Veshchestv, Moscow, 1960, pp 1-595.
FTD-MT-64-242

Arc Spot Welding of Low Carbon Phosphate Coated Steels, by L. A. Rylov, N. M. Budnik.
RUSSIAN, per, Traktory i Sel'khoz mashiny, Oct 1965, pp 40-41.
BISI 5184

Gear-type Liquid Meters ShZhUA and ShZhU.
RUSSIAN, per, Transport i Khraneniye Nefti i Nefteproduktov, March 1965, pp 39-40.
ACSI J-0845
ID 2204049466

Meter-Dispensing Units.
RUSSIAN, per, Transport i Khraneniye Nefti i Nefteproduktov, March 1965, pp 40-41.
ACSI J-0845
ID 2204049466

Electron Microscope Examination of the Structure of Hardened and Tempered Low-Carbon Steel, by K. F. Starodubov.
RUSSIAN, per, AN Ukrain. SSR Trudy Inst. Chern. Met, Vol 13, 1960, pp 242-245.
BISI 5137

Transformations During the Heating of Sap Powder, by A. I. Paisov, et al.
RUSSIAN, per, Trudy Moskovskiy Aviatsionnyy Tekhnologicheskyy Institut, No 62, 1965, pp 30-37.
*NASA TT F-10,449

Investigation of the Pressure Distribution of Metal on the Rolls During the Rolling Process, by A. I. Kolpashnikov, A. N. Amufriyev.
RUSSIAN, per, Trudy Moskovskiy Aviatsionnyy Tekhnologicheskyy Institut, No 62, 1965, pp 83-90.
NASA TT F-10,422

Investigation of Mechanical Parameters in Hot Rolling, by O. I. Kachaynik.
RUSSIAN, per, Trudy Moskovskiy Aviatsionnyy Tekhnologicheskyy Institut, No 62, 1965, pp 91-100.
NASA TT F-10,421

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Application of Equivalent Programming to Algorithmization of Control Machines, by V. T. Kulik, 43 pp.
RUSSIAN, per, Trudy Nauchno-Tekh Obschch Pribor Promy Nauch-Tekh Soveshchaniye. Vychislitel'naya Tekh Diya Automat Proiz, 1964, pp 49-82. P100093266
FTD-HT-66-516

Analysis of the Spectral Reflecting Properties of Natural Formations With the Air of Selecting the Optimal Zones of Sensitization on Light-Sensitive Films, by S. M. Solvyev, A. L. Starosel'skiy. RUSSIAN, per, Trudy Vsesoy Nauch Issled Kino, 1962, pp 104-119.
*FTD-HT-66-761

Topocart - A New Universal Stereomapping Instrument from VEB Carl Zeiss JENA, by O. Weibrecht.
GERMAN, per, Vermessungstechnik, No 8, Aug. 1966, pp 281-285.
ACBI J-1435
ID 2204063166

Steel Casting and Foundry Work in the USSR, 32 pp.
RUSSIAN, bk, XVIII Vsesoyuznaya Konferentsiya Liteyshchikov, 1966.
JPRS 38574

Direct Heating Relaxer, by L. N. Aleksandrov, V. S. Mordyuk, 11 pp.
RUSSIAN, rpt, Vsesoyuznaya Konferentsiya po Relaksatsionnym Yavleniyam v Metallakh i Splavakh. 3D, Voronezh, 1962, Relaksatsionnyye Yavleniya v Metallakh i Splavakh, Trudy Konferentsii. Metallurgizdat, Moskva 1963, pp 65-71. P100073766
FTD TT-65-1637

25,000 Kilometers of Electrified Railroad, 5 pp.
RUSSIAN, per, Zhurnal Transport, No 10, Oct 1966, pp. 3-4.
JPRS 39116

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

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The Working Liquid of a Liquid-Jet Vacuum Pump, by Ye. N. Martinson and K. N. Myznikov, et al,
RUSSIAN, Patent No 147,286, 3 May 1961.
*FTD-HT-67-18

Vacuum Pumping Unit, by Ye. N. Martinson and B. I. Plechev,
RUSSIAN, Patent No 159,598, 13 Dec 1962.
*FTD-HT-67-19

Memory Element with a Biaxial Core, by Yu. I. Vizun,
RUSSIAN, Patent No 164,462, 5 Jun 1963.
*FTD-HT-67-39

Method of Pumping of Vacuum Systems, by Ye. N. Martinson and B. I. Plechev, et al,
RUSSIAN, Patent No 164,920, 21 Dec 1962.
*FTD-HT-67-17

Pneumatic Multipoint Number Printing Recording Device, by N. A. Barykin, A. A. Pleskachev.
RUSSIAN, per, Patent No 167318, 12 Nov 1963.
*FTD-HT-66-665

Working Liquid for Vacuum Pumps, by Ye. N. Martinson and B. I. Plechev, et al,
RUSSIAN, Patent No 168,840, 26 Feb 1965.
*FTD-HT-67-16

Self-Tuning Synchronous Filter, by Yu. N. Grekhov.
RUSSIAN, per, Patent No 176997.
*FTD-HT-66-724

An Anechoic Water Tank For High Frequencies, by Hsu Wei-1 (1776 0787 5030), 6 pp.
CHINESE, per, Sheng-hsueh Hsueh-pao, Vol II, No 1, Mar 1965, pp. 39-40.
JPRS 39107

Asynchronous Sequential Machine with a Pre-determined Degree of Reliability, by Wen-chen Lin,
CHINESE, per, Tzu-tung-hua Hsueh-pao, Vol IV, No 1, 1966, pp 37-45.
*FTD-HT-67-32

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

The Effect of Sequence Time Rationalisation and Ingot Weight on Blooming Mill Efficiency, by A. Froněk.
CZECH, per, Hutník, Vol 14, No 3, 1964, pp 126-130.
*BISI 5166

Mechanical Properties of Blast-Furnace Coke, by J. Horák.
CZECH, per, Hutník, Vol 14, No 11, 1964, pp 528-532.
*BISI 4731

The Determination of the Reactivity of Coke in Air on the Basis of Oxidation Curves, by M. Kessler, L. Dočkalová.
CZECH, per, Hutn. Listy, Vol 21, No 7, 1966, pp 449-453.
*BISI 5336

Natural Isocyclic Dyestuffs, by A. Sepitka, J. Vasicová.
CZECH, per, Průmysl Potravin, No 5, 12 Dec 1966, pp 271-272.
*ACSI J-1348
ID 2204059866

Rubber Containers in Highway Transportation, by Karel Zavodský.
CZECH, per, Silniční Doprava, No 9, 1966, pp 6-8.
*ACSI J-1432
ID 2204062866

New Trends in Canning Industry, by P. Rač.
CZECH, per, Průmysl Potravin, Vol 17, No 9, 1966, pp 455-462.
*ACSI J-1451
ID 2204063466

On the Quality of Non-Ageing Aluminium-Stabilised Deep-Drawing Steel, by V. Dědek, V. Vondrášek.
CZECH, per, Sborník (Ostrava), Vol 10, No 3, 1964, pp 329-335.
*BISI 5247

Using Black Gauges in Ultrasonic Flaw Detection, by J. Kores.
CZECH, per, Sborník Prací Vyzkumného a Zkušebního Ústavu Leninových Závodů v Plzni, 1965, pp 555-560.
*BISI 5293

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Temperature Measurement of Steel in Bottom Casting Ladles, by Z. Pospíchal, M. Seifert.
CZECH, per, Slevarenství, Vol 13, No 6, 1965, pp 221-223.
*BISI 5244

Possibility of Measuring the Thermal Conductivity of Gases in Shock Tubes, by V. Kmoníček.
CZECH, per, Strojnický Casopis, No 2, 1965, pp 139-148.
*FTD-HT-66-680

Heat Exchange Between a Flow of Dissociated Gas and a Wall, by I. Krejčí.
CZECH, per, Strojnický Casopis, No 2, 1965, pp 191-198.
*FTD-HT-66-680

Progress Report Concerning the Development of a Plastic Jerrycan for Storing and Transporting Petrol, by G. F. Bartoo, J. C. Malijn, 6 pp.
DUTCH, rpt, Plastics Institute, T.N.O. Delft Interim Report No 63/65, 1965, pp 1-12.
944162966
*BISI 1834

Test Correction to the Power Curves Extrapolated by Froude's Method and Using Froude's Coefficient of Friction, by H. J. De Jong, 6 pp.
DUTCH, per, Schip en Werf, Vol 32, No 12, 1965, (Publication No. 260 of the N.S.P.).
*BISI 1787

Review of High Yield Point Steels for Welded Structures and Machines, by M. Hulzinga.
DUTCH, Paper, No 2 to Stichting Nederlands Instituut voor Lastechniek Symposium, 1966, pp 5-25.
*BISI 5307

Metallurgical Aspects of the Welding of High Yield Point Steels, by C. F. Berkhout, P. H. Lent.
DUTCH, Paper, No 3 to Stichting Nederlands Instituut voor Lastechniek Symposium, 1966, pp 33-41.
*BISI 5308

Behavior of a Prestressed Concrete Pressure Vessel Subjected to a High Temperature Gradient, by Frédéric Dubois, Charles Bonvalet, et al.
FRENCH, rpt, P911172466-V
*BISI 1343

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Weldability of T-1 Steel, by J. Lemoine.
FRENCH, per, Arcos, Vol 43, No 154, 1966,
pp 4131-4137.
*BIBI 5294

Industrial Application of Computers in Iron
and Steel Making, by P. Casselin.
FRENCH, per, Automatisme, Vol 11, Sep 1966,
pp 425-436.
*BIBI 5302

Two Examples of the Application of Computers
in the Steel Industry, by E. Bernard.
FRENCH, per, Automatisme, Vol 11, Sep 1966,
pp 437-444.
*BIBI 5303

Preliminary Report on the Recarburizing
Tests Carried Out in the Number One Open-
Hearth Furnace of the U.C.P.M.I., by J.
Denantes.
FRENCH, per, C.D.S. Circ., No 6, 1961,
pp 1449-1460.
BIBI 5192

Vacuum Degassing in the Ladle at the Danain
Plant of STE Fives Lilla-Call, by J. C.
Paurise.
FRENCH, per, C.D.S. Circ., Dec 1965, pp 2655-
2666.
*BIBI 5329

Causes of Errors in the Analysis of Powders
by X-Ray Fluorescence: Special Case of Iron
Ores, by M. Hautecler, M. Lesir.
FRENCH, per, C.D.S. Circ., Dec 1965,
pp 2709-2728.
*BIBI 5326

Application of Low-Intensity Dry Separation
to the Processing of Roasted Lorraine Ores,
by P. Javelle.
FRENCH, per, C.D.S. Circ., Vol 23, Mar 1966,
pp 675-721.
*BIBI 5267

Evolution and New Techniques in Hot Stoves, by
A. Scavini.
FRENCH, per, C.D.S. Circ., Apr 1966, pp 931-
955.
*BIBI 5332

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Commission for Blast Furnaces P.122-Stove
Refractories, by J. P. Kiehl.
FRENCH, per, C.D.S. Circ., Vol 23, 1966,
pp 957-974.
*BIBI 5277

Measurements of Torque and Power Values on the
Bonpertuis 380 Rolling Mills, by J. C. Albert,
C. Lachensit.
FRENCH, per, C.D.S. Circ., No 5, 1966, pp 1215-
1234.
*BIBI 5272

Measuring Relaxation and Residual Stresses, by
M. Colnard.
FRENCH, per, C.D.S. Circ., Feb 1966, pp 519-536.
*BIBI 5265

Metal Spraying in the Steel Industry, by M.
Bruhlet.
FRENCH, per, Corros. Anticorros, Vol 14,
Feb/Mar 1966, pp 78-88.
*BIBI 5243

The Development of the European Packaging
Industry Viewed by American Specialists.
FRENCH, per, Emballages, No 239, 1966,
pp 259-274.
*ACSI J-1450
ID 2204063366

Automatic Apparatus for Measuring the Cold
Rolling Coefficient, by M. Grumbach.
FRENCH, per, Mesures, Apr 1966, pp 101-107.
*BIBI 5282

The Use of Economic Parameters in the
Mechanical Preparation of Ores, by P. Sayer.
FRENCH, per, Rev. Ind. Minerale, Vol 48, 1966,
pp 293-319.
*BIBI 5268

Marine Applications of Fuel Cells, by
G. Gâles dela Ronde, Jean-Pierre Naysour,
17 pp.
FRENCH, per, Revue Maritime, No 222,
1965, pp 764-777.
Dept of Navy ONI Tr 2160/Tr 4944

Selecting Optimum Conditions for Sintering
of Lorraine Ores, by M. Boucraut, R. Rochas.
FRENCH, per, Rev. Mat., Vol 62, Jul/Aug 1965,
pp 631-634.
*BIBI 5316

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

A Testing Method for Refractories for Pusher-Type Furnaces, by A. Auerbach.
FRENCH, per, Rev Met, Vol 63, Jan 1966,
pp 41-56.
*BIBI 5263

Determination of Heating Norms for Large Forging Ingots, by A. Poquet.
FRENCH, per, Rev Met, Vol 63, Sep 1966,
pp 673-677.
*BIBI 5242

Analysis of a Manganese Ore by X-Ray Fluorescence. Standardisation of the Method From Synthetic Mixtures, by J. Hanon, R. Winland.
FRENCH, per, Rev Met. Mem. Sci., Vol 62, Jan 1965, pp 45-58.
*BIBI 5292

Mechanical Properties, Texture and Fibrous Appearance of 17 percent Chromium Steels, as a Function of Manufacturing Conditions, by E. Pouillard, J. Drain.
FRENCH, per, Rev Met., Vol 63, Feb 1966,
pp 87-103.
BIBI 4949

The Structure of 18-4-1 Type High Speed Steel and Its Influence on the Life of Cutting Tools, by K. Lassota.
FRENCH, per, Rev. Met., Vol 63, Feb 1966,
pp 105-116.
BIBI 4883

Tempering Martensite and Lower Bainitic Reaction. Case of Carbon-Silicium Steel and Carbon Steel, by J. Pomsy.
FRENCH, per, Rev. Met. Mem. Sci., Vol 63, Jun 1966, pp 509-532.
*BIBI 5335

Blast Furnace Slag Compared to Natural Stone. Its Use in the Manufacture of Concrete, by R. Hoffmann.
FRENCH, per, Rev. Techn. Luxembourg, Vol 58, Jan-Mar 1966, pp 14-22.
*BIBI 5328

Process and Device for Production of Power, by S. Maillet.
FRENCH, Patent 1,408,858, 1965.
*ABC LB/G/2502

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Theory and Testing of Uerdinger Annular Springs.
GERMAN, Ringfeder Publication, Jun 1966.
*BIBI 5310

The Quality of Buffer Springs.
GERMAN, Ringfeder Publication, Mar 1966.
*BIBI 5309

Phenomenological Theory of the Kirkendall Effect, by J. Schlipf,
GERMAN, per, Acta Metallurgica, Vol XIV, No 7, 1966, pp 877-885.
Dept of Navy/NRL No 1086

Roll Pass Approach Calculation for Rolling Mill Adjustment as an Example of a Special Digital Computer, by H. M. Heinen, A. Krock.
GERMAN, per, AEG Mitteil, Vol 54, No 11/12, 1964, pp 684-689.
*BIBI 5251

Broadening of X-Ray Interference Lines in Variously Heat-Treated Structural Steels by Tensile Strain in the Temperature Range of Blue Brittleness, and the Relationship With Mechanical Properties, by F. Idhl, W. Low.
GERMAN, per, Arch Eisenh., Vol 37, Feb 1966,
pp 165-171.
BIBI 4951

Coulometric Methods for Determining the Thickness of Metal Coatings on Steel, by B. Meurthen.
GERMAN, per, Bander Bleche Rohre, Vol 6, Sep 1965, pp 513-519.
BIBI 5029

Design and Applications of Data Processing Equipment for a Cold Strip Tandem Mill, by J. Christ, G. Horn.
GERMAN, per, Bander Bleche Rohre, Vol 7, No 3, 1966, pp 130-134.
BIBI 4999

The State of Development of Precision Cutting Techniques - I, by A. Ouidi.
GERMAN, per, Bander Bleche Rohre, Apr 1966,
pp 193-203.
BIBI 5101

Special Steel Pressure Vessels for the Storage and Transport of Liquid Gases, by K. Born.
GERMAN, per, Bander Bleche Rohre, Vol 7, May 1966, pp 282-289.
BIBI 4934

Water Jets for the Loosening and Packing of Soils, by H. Hemmann.
GERMAN, per, Bauplanung Bautechnik, No 5, 1966, pp 216-221.
*ACSI J-1430
ID 2204062666

DET-250 Crawler-Mounted Ripper.
GERMAN, per, Bauplanung Bautechnik, No 6, 1966, pp 305-306.
*ACSI J-1374
ID 2204066066

430 TC Truck-Mounted Revolving Tower Crane.
GERMAN, per, Bauplanung Bautechnik, No 6, 1966, p 308.
*ACSI J-1374
ID 2204066066

The Application of the Schmidt Concrete Testing Hammer to the Testing of Refractory Brick, by P. Artelt.
GERMAN, per, Ber. DKG., Vol 43, No 6, 1966, pp 436-439.
*BISI 5276

Apparatus for Rapid Determination of Ash as Means for Homogenization of Coal End Products, by G. Siekmann.
GERMAN, per, Erdol Kohle - Erdgas Petrochemie, Vol 18, Oct 1965, pp 795-796.
*BISI 5287

The Mechanism of Corrosion and Corrosion Protection of Metal-Coated Steel, by H. J. Engell.
GERMAN, European Symposium "Protection of Steel Structures by Metallic Coatings", Vienna, 3-10 Sep 1964.
*BISI 5245

Calculation Work on Vibratory Screens, by C. Ephremidis.
GERMAN, per, Fordern Heben, Vol 16, Mar 1966, pp 171-174.
BISI 5163

The Carburization of Case-Hardening Steels in the Temperature Range Between 920 and 1100°C, by A. Bandak, E. Kiderle.
GERMAN, per, Mart. Techn Mitt, Vol 21, No 3, 1966, pp 190-198.
*BISI 5231

Mechanical Properties of Carbonitrided Steels. I: Bending Strength and Impact Ductility of Carbonitrided Steels Having High Core Strength, by B. Prenosil.
GERMAN, per, Mart. Techn. Mitt, Vol 21, No 3, 1966, pp 199-209.
*BISI 5232

The High-Temperature Embrittlement of Austenitic Nickel-Chromium Steels and Nickel-Base Alloys on Neutron Irradiation, by H. Bohm.
GERMAN, per, J. Nuclear Mat, Vol 19, No Apr 1966, pp 59-69.
BISI 4985

Hydromechanical Drawing, by E. Burk.
GERMAN, per, Kleppzig Fachber., May 1966, pp 185-188.
*BISI 5278

The Determination of Capacity in Rolling Mills, by W. Dams.
GERMAN, per, Met. Giesserei Techn, Vol I, 1951, pp 88-89.
*BISI 5298

Automation in Electroplating Technique, by A Hoch.
GERMAN, per, Metalloberflache, Vol 11, No 8, 1957, pp 255-257.
*BISI 5296

The Regenerative Frequency Divider-Behavior in Wide-Band Operation, Design and Balancing, by R. Simon,
GERMAN, per, Nachrichtentechnik, No 11, 1964, pp 427-432. P100104466
FTD-TT-65-1733

Temperature Measurement With Optical Pyrometers in the Temperature Range From 700 to 1200°C With Special Reference to the Emissivity of Steel Surfaces, by F. Esser.
GERMAN, per, Neus Hutte, Vol 10, 1965, pp 302-305.
BISI 5063

Thermal Design and Constructional Problems in Connection With High-Temperature Covers, by I. Pentek.
GERMAN, per, Neus Hutte, Vol 11, 1966, pp 472-479.
BISI 5193

Scientific
Mechanical Industrial, Civil & Marine Engineering (Contd)

The Dynamics of Forced-Flow Evaporator Systems,
by P. Profos.
GERMAN, per, Regelungstechnik, Vol 10, No 12,
1962, pp 529-536.
*AEC URNL-tr-1436

Plastic Coated Steel Tubes for Buried Pipelines,
by V. Hauk.
GERMAN, per, Rohre-Rohrleitungsbau-Rohrlfitung-
stransport, Vol 5, Jun 1966, pp 125-131.
*BISI 5238

Ships of the Future, by W. I. Korotkow,
A. M. Tscernysch, 92 pp.
GERMAN, bk, Schiffe der Zukunft, 1962,
127 pp. P100127266-V
FTD-HT-66-330

Relation Between Design of the Blast-Furnace
and Wear of Its Refractory Lining, by H.
Kahlhofer, A. Send.
GERMAN, per, Stahl Eisen, Vol 74, No 26,
16 Dec 1954, pp 1697-1713.
BISI 5049

Investigation of the Dynamic Loading of
Steelworks Crane Driving Gear by Universal
Joints, by E. Overlach, D. Wunsch.
GERMAN, per, Stahl Eisen, Vol 85, 7 Oct 1965,
pp 1248-1257.
BISI 4942

Changing a Steelworks to the Use of Natural
Gas With Particular Consideration of the
Operational Measures to be Taken, by E.
Klammer.
GERMAN, per, Stahl Eisen, Vol 86, 10 Feb 1966,
pp 142-149.
BISI 4904

Operational Behaviour of Jaw Tooth and Roller
Clutches on Drive Shafts of a Fast Tandem Cold
Rolling Mill, by J. Lenze, R. Lorscheider.
GERMAN, per, Stahl Eisen, Vol 86, 30 Jun 1966,
pp 541-551.
*BISI

Deposit Welding on Steels Rolls, by E. Stall.
GERMAN, per, Stahl Eisen, Vol 19, 22 Sep 1966,
pp 1231-1239.
BISI 5182

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Research on the Design of Four-High Cold-Rolling
Mill Stands, by H. Reihlen.
GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966,
pp 1273-1284.
*BISI 5237

Simplified Calculation of Roll Separating
Force and Torque in Steel Strip Rolling,
by A. Troost, F. W. Hollmann.
GERMAN, per, Stahl Eisen, Vol 86, 6 Oct 1966,
pp 1285-1289.
*BISI 5400

Vacuum-Arc Furnace Molten Steel For Forgings,
by W. Peter, H. Spitzer.
GERMAN, per, Stahl Eisen, Vol 86, 20 Oct 1966,
pp 1383-1393.
*BISI 5257

Study of the Stresses in Operation of a
Stripping Crane Rope, by G. Beck.
GERMAN, per, Stahl Eisen, Vol 86, 20 Oct 1966,
pp 1393-1397.
*BISI 5258

Mechanical Properties of Stainless Austenitic
Steels With Elevated Nitrogen Content, and
Their Possibilities of Use, by H. Jesper.
GERMAN, per, Stahl und Eisen, Vol 86, 20 Oct
1966, pp 1408-1418.
*BISI 5235

Technical Attendance of Data Recovering and
Processing Plants by Means of Process
Computers in Iron and Steelworks, by H. J.
Stuber.
GERMAN, per, Stahl Eisen, Vol 86, 17 Nov 1966,
pp 1537-1543.
*BISI 5301

Solid Fiberboard Packaging.
GERMAN, rpt, Verpackung aus Vollpappe,
1963, pp 1-31, 41, 42, 44, 48, 49, 99-102.
*ACSI J-1456
ID 2204063866

Flexible Plastic Packaging - Features,
Disadvantages, Problems.
GERMAN, per, Verpackungs-Rundschau, No 11,
1964, pp 1252, 1254, 1255.
*ACSI J-1431
ID 2204062766

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Aluminum Tubes for Combat Rations of the West German Army, by H. Menzel.
GERMAN, per, Verpackungs-Rundschau, No 8, 1966, pp 1060, 1062, 1064.
ACSI J-1436
ID 2204063266

Analysis of High-Alloy Steels by Vacuum Spectrometry, by J. Bruch.
GERMAN, per, Z. Analyt Chem, Vol 215, No 5, 1966, pp 332-343.
*BIBI 5256

Windshield Wiper Blade, 4 pp.
GERMAN, Patent No F 17814.
Dept of Comm
Patent Office

Device for Converting Saturated Steam Into Superheated Steam, by Gustav Deutsch,
GERMAN, Patent No 151,464 .
Dept of Comm
Patent Office

Volute Spring, 4 pp.
GERMAN, Patent No 531,707.
Dept of Comm
Patent Office

Waterless Shampoo, 6 pp.
GERMAN, Patent No 1,053,739.
Dept of Comm
Patent Office

Electrosensitive Stencil Blank and Method of Manufacture Thereof, 14 pp.
GERMAN, Patent No 1,148,463.
Dept of Comm
Patent Office

Implement for Separation and Insertion of Stacked Travelers on Spinning and Twisting Machines, by A. G. Bracker,
ITALIAN, Patent No 643,883.
Dept of Comm
Patent Office

Linear Polymers With High Molecular Weight, and Method of Their Preparation, 11 pp.
ITALIAN, per, Patent No 631,585, 1962.
Dept of Navy ONI Tr 2240/Navy Tr 4948

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Bi-Axially Magnetic Steel Sheet, by T. Kato, M. Fujikura.
JAPANESE, per, Danki Seiko, Vol 33, Mar 1962, pp 141-154.
BIBI 4620

Performance of Graphite Stopper Heads (on Relations Between Sonic Property of Stopper Head and Results of Its Practical Use), by H. Yoshida.
JAPANESE, per, Taikabutsu, Vol 16, No 3, 1964, pp 270-271.
*BIBI 5333

Control of Oxygen in the Molten Steel in Oxygen Steelmaking, by Y. Nagano, H. Kakimi.
JAPANESE, per, Tetsu to Hagane, Vol 46, Mar 1960, pp 269-270.
BIBI 4619

Air Cooled Rotor Discs of Uniform Strength, by Edmund Tulisaka, 22 pp.
POLISH, per, Archiwum Budowy Maszyn, Vol XI, No 1, 1964, pp 23-37.
FID-TT-65-1757

Plastic Strains and Strains of Expanded Multilayer Cylindrical Pressure Vessels, by Michal Zyczkowski, 19 pp.
POLISH, per, Archiwum Budowy Maszyn, Vol XI, No 1, 1964, pp 83-96.
FID-TT-65-1757

Influence of the Nonuniformity of the Velocity of Convection of Eddies Behind a Harmonically Vibrating Airfoil on the Aerodynamic Forces Acting on the Airfoil, by Wieslaw Lucjanek. 9 pp.
POLISH, per, Archiwum Budowy Maszyn, Vol XI, No 1, 1964, pp 179-186.
FID-TT-65-1757

Synchronous Operation in the Cascade of the Hydro-Plants of the Lower Vistula, by J. Sosanski,
POLISH, per, Gospodarka Wodna, Vol XX, No 5, 1960, pp 198-202.
CFSTI TT 63-11363

The Economy of Synchronous Operation of Hydro-Plants in the Lower Vistula Cascade, by S. Gora,
POLISH, per, Gospodarka Wodna, Vol XX, No 5, 1960, pp 202-207.
CFSTI TT 63-11363

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Time of Stabilization of a Depression and Depression Range in Building-Site Drainage by the Method of Lowering the Ground-Water Level, by W. Kollis,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 250-253.
CFSTI TT 63-11363

Studies on Self-Purification in Some Sections of teh Jeziora, Ultrata and Suprasl Rivers, by B. Kozoirowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 254-257.
CFSTI TT 63-11363

Wieprz-Krzna Canal, by J. Kwapiszewski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 256-258.
CFSTI TT 63-11363

Progress of Works on the Construction of the Wieprz-Krzna Canal, by J. Gierczak,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 258-260.
CFSTI TT 63-11363

Pipe Jacking in Engineering Practice, by Z. Zlotkowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 261-263.
CFSTI TT 63-11363

Effect of Slots in Wier Piers on the Magnitude of Discharge Coefficient, by W. Majewski,
POLISH, per, Gospodarka Wodna, Vol XX, No 6, 1960, pp 279-281.
CFSTI TT 63-11363

A Contribution to the Theory of Lowering of Ground-Water Level, by K. Szechy,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 296-301.
CFSTI TT 63-11363

Application of the Rotary Method with Drilling Fluid in Hydro-Geological Drilling Operations, by Z. Dadak,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 307-311.
CFSTI TT 63-11363

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Water Systems in Industrial Plants, by A. Szytal,
POLISH, per, Gospodarka Wodna, Vol XX, No 7, 1960, pp 311-315.
CFSTI TT 63-11363

Notes on the Construction of the Reinforced Concrete Sinking Caissons, by J. Puscikowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 356-358.
CFSTI TT 63-11363

Hydraulic Model Tests of a Spillway Tunnel, by G. Kwidzynska-Bendykowska,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 377-379.
CFSTI TT 63-11363

Underwater Investigations Using Industrial Television, by M. Hoffmann,
POLISH, per, Gospodarka Wodna, Vol XX, No 8, 1960, pp 380.
CFSTI TT 63-11363

Hydromechanization in Earth-Filling of the Koronowo Dam, by T. Makowski and W. Przelaskowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 407-408.
CFSTI TT 63-11363

Water Balance of the Lasica River, by A. Byczkowski, et al,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 412-414.
CFSTI TT 63-11363

Base Flow in the Warta Drainage Area, by T. Kincinski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 414-416.
CFSTI TT 63-11363

Design of, and Prefabricated Elements for, Typical Structures in Hydraulic Improvement of Land, by M. Zhudzynski,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 417-419.
CFSTI TT 63-11363

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Methods for Determining Water Surface Curves, with Steady Slow-Varying Water Flow in Open Regular Water Beds, by Z. Sochon, POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 429-431.
CFSTI TT 63-11363

Calculation of Water Infiltration Underneath Dam Structures by R. Chugaev's Method, by A. Podniesinski, POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 442-449.
CFSTI TT 63-11363

Cofferdams Scouring in View of Model Tests, by J. Sobieraj, POLISH, per, Gospodarka Wodna, Vol XX, No 10, 1960, pp 472.
CFSTI TT 63-11363

Approximate Method for Computing the Density of Spoil of the Suction-Delevrey Dredger, by W. Jankowski, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 484-485.
CFSTI TT 63-11363

Control of Operation of Water-Power Plants, by J. Zmihorski, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 486-489.
CFSTI TT 63-11363

Water Building in Karst Regions in Yugoslavia, by J. Glodek and S. Rawa, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 494-497.
CFSTI TT 63-11363

Water Conditions on a Small Lowland Catchment Area as Illustrated by the Gasawka River, by J. Koczorowska, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 507.
CFSTI TT 63-11363

Cofferdams Scouring in View of Model Tests, Concluding Part, by J. Sobieraj, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 509-510.
CFSTI TT 63-11363

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Hydraulic Model Studies on Cooling Water Circuit, by W. Majewski, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 510-511.
CFSTI TT 63-11363

On the Horner Method, by J. Blum, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 511-512.
CFSTI TT 63-11363

Complexometric Method for Determination of Calcium, Magnesium and Water Hardness in Natural and Waste Waters, by T. Januszkiewicz, POLISH, per, Gospodarka Wodna, Vol XX, No 11, 1960, pp 513-516.
CFSTI TT 63-11363

Controlled Desulphurization of Metal in the Open-Hearth Process, by K. Mamro, T. Mazenek, POLISH, per, Hutnik, Vol 33, No 3, 1966, pp 77-82.
*BISI 5313

The Influence of Handling Conditions in the Ports Served by the Bengali Line on Packaging of General Cargo, by Z. Kostro, POLISH, per, Opakowanie, No 5, 1966, pp 12-15.
*ACSI J-1476
ID 2204064366

Properties and Application Range of Bainitic Steels, by S. Przegalinski, POLISH, per, Prace Inst. Hutniczych, Vol 17, No 2/4, 1965, pp 179-187.
*BISI 5318

Determination of the Molecular Hydrogen Causing Blowholes in Castings, by Z. Falecki, POLISH, per, Przegląd Odlewnictwa, Vol 15, No 1, 1965, pp 6-9.
*BISI 5319

Speed Reduction Gears for Turbine Propeller, by S. Szczecinski, M. Lyzwinski, POLISH, per, Technika Lotnicza, No 9, 1965, pp 226-231.
ACSI J-0925
ID 2204050966

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Limestone Rock Crusher Automatic Load Control System, by J. Stachowiak.
POLISH, rpt, III Konferencja Naukowa -- Telemekhanika i Telemetria, 1964, pp 1-12.
ACSI J-1302
ID 2204057866

The Effect of a Heat-Treatment at High Temperatures (HEHT) on the Mechanical Properties, Microstructure and Fine Crystalline Structure of Silicon Steels, by H. Sassau.
ROMANIAN, per, Studia Cerc. Met., Vol 9, No 2, 1964, pp 161-177.
BISI 4936

Process Control of Sheet and Wide-Strip Mills, by K. Gedin.
SWEDISH, per, Jernkon Ann., Vol 150, No 8, pp 537-572.
*BISI 5286

Number of Industrial Factories Registered in Northeastern Provinces Classified According to Type, Site, Raw Material, Product, Labor and Numbers.
THAI, rpt, Chamuan Rong Ngarn Udsaha Kam Tee Chodtabian Rong Ngarn Nai Kade Changwad Park Tawan Ork Chiang Nua Chamnak Tarn Praped Sarn Tee Tung Wattu Dib Wattu Samred Rang Ngarn lae Chamuan Rong Ngarn.
ACSI J-0716
ID 2204045666

Methods & Equipments

Algorithmic Designing of Calculating Digital Computers, by V. S. Linskiy, 109 pp.
RUSSIAN, bk, Algoriticheskiye Proektirovaniye Vychislitel'nykh Masin i Ustroystv, 1963, pp 1-134.
FTD-MT-65-170

Wide-Angle Orthoscopic Lens for Aerial Photography, by N. A. Agal'tsova, N. M. Rusinov.
RUSSIAN, per, Byulleten' Izobrenteniy i Tovarnykh Znakov, No 23, 1965, p 54.
*FTD-MT-66-792

Scientific
Methods & Equipments (Contd)

Mechanism of the Oxidation of Impurities in the Converter Bath, by L. V. Tsykin, G. N. Oks.
RUSSIAN, per, Izv. VUZ Chern. Met., No 7, 1965, pp 63-68.
BISI 5079

DNIPRO Multipurpose Controller Computer, by Ye. L. Yushchenko.
RUSSIAN, bk, Upravlyayushchaya Mashina Shirokogo Naznacheniya (DNIPRO) i Programmiruyushchnyya Programma kney
1964, pp 1-280.
FTD-MT-66-102

Electrooptical Modulator, by O. G. Blokh, I. S. Zheludev.
RUSSIAN, per, Patent No 175272,
26 Jan 1963.
*FTD-MT-66-682

Fast Logic Circuit, by L. I. Gutenmakher,
RUSSIAN, Patent No 151,882, 30 Dec 1961.
*FTD-MT-67-4

Apparatus for Removing Wax Materials from Fowl Carcasses, by V. B. Belanovskiy and V. G. Tikhonov,
RUSSIAN, Patent No 153,104.
Dept of Comm
Patent Office

An Rf Pulse-Amplitude Flip-Flop Based on Tunnel Diodes, by I. Ye. Gol'berg, G. P. Zemtsov.
RUSSIAN, per, Patent No 178169, No 2, 1966, pp 115-116.
*FTD-MT-66-791

Anticavitational Device, by P. S. Kashuba.
RUSSIAN, per, Patent No 177776,
20 Jun 1963.
*FTD-MT-66-671

Buffer Memory Unit, by A. P. Gorshkov, et al,
RUSSIAN, Patent No 179,095, 22 Jun 1964.
*FTD-MT-67-7

Methods and Apparatus for Production of Annular Sections Severed from Hollow Glass Blanks, by Joseph Riedel,
AUSTRIAN, Patent No 66,230.
Dept of Comm
Patent Office

Scientific
Methods & Equipments (Contd)

The Effects of Interruptions on the Results of Long-Term Creep Tests, by R. Pokorny, J. Pribyl.
CZECH, per, Strojirenstvi, Vol 14, No 10, 1964, pp 763-766.
BIBI 5138

Supersonic Wind Tunnel of the Institute of Thermomechanics for Studying Two-Dimensional Vane Cascades, by J. Kveton.
CZECH, per, Strojnický Casopis, No 2, 1965, pp 167-179.
*FTD-HT-66-680

Study of Digital Conversion of Photographic Information in the College de France HPD Apparatus, by G. Banasik, M. Bloch, et al.
FRENCH, rpt, 1966. PS11172766
AEC NP-tr-1413

Comparison Between Rotary Kiln Line and Shaft Kiln Line in the Basic Bessemer Converter, by G. Pescatore.
FRENCH, per, C.N.R.M., June 1966, pp 15-28.
BIBI 5156

Electrochemical Methods of Studying the Behaviour of Stainless Steels in a Chlorinated Medium, by J. M. Defranoux.
FRENCH, per, Corros. Sci, Vol 3, No 2, 1963, pp 75-86.
*BIBI 5285

The Production of Pellets from Pyrite Cinders (Montecatini Process), by U. Colombo, G. Sironi.
FRENCH, per, Rev. Ind. Minerale, Vol 43, May 1966, pp 389-397.
*BIBI 5270

Description of IRSID Pelletizing Equipment, by M. Boucraut.
FRENCH, per, Rev. Ind. Mineral, Vol 43, Jul 1966, pp 509-516.
*BIBI 5334

Contribution to the Study of the Forgeability of Stainless and Heat Resisting Steels in the Rough Cast State, by J. Bellot, M. Hugo.
FRENCH, per, Rev. Met., Vol 63, 1966, pp 7-16.
BIBI 4840

Scientific
Methods & Equipments (Contd)

Plotting, Aiming and Optical Equipment.
GERMAN, rpt, Die Artillerieoffizier, 1960, pp 68-101, (less pp. 82-83)
*ACSI J-1457
ID 2204063966

The Introduction of Oxygen Into the Flames of Mixed-Gas Furnaces, by W. Deilmann, K. Klimanek.
GERMAN, per, Radex Rund, No 5, 1966, pp 269-279.
*BIBI 5295

Method and Device for Separating Bottle Caps, by Agema Peter Weber,
GERMAN, Patent No 1,055,558.
Dept of Comm
Patent Office

Improved Friction Bearings and Improved Methods for the Production Thereof, 11 pp.
ITALIAN, Patent No 585,881.
Dept of Comm
Patent Office

ZrO₂-SiO₂-Al₂O₃ Refractories for Ladles, by N. Nameishi, T. Ishibashi.
JAPANESE, per, Zaikabutsu, Vol 86, No 16, 1965, pp 364-367.
*BIBI 5297

A Coffee Preparation and Process for Making It, by Paul F. Habicht, 2 pp.
SWISS, Patent No 85,560.
Dept of Comm
Patent Office

Navigation, Communications, Detection & Countermeasures

Digital Receiver-Printer for Telegraph Lines, by V. M. Kuprin and Yu. N. Lipin, 7 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No. 8, Aug 1966, pp. 37-39.
JPRS 38691

Linking of Digital Computers with Telegraph Communication Channels at a Computation Center, by O. I. Leonov, 6 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No. 8, Aug 1966, pp. 40-42.
JPRS 38691

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Spacecraft Navigation, by L. M. Vorob'yev,
RUSSIAN, bk, Navigatsiya Kosmicheskikh Korab-
lei, 1964, 157 pp.
CFSTI TT 66-51024
NASATT F 344

Approach to the Design of Modern
Submarine Transport Ships With Nuclear
Propulsion, by A. A. Tokmakov, 37 pp.
RUSSIAN, per, Podvodnyye Transportnyye
Suda, 1965, pp 143-159. P500089266
Dept of Navy/ONI Tr 2220

Radiowaves Explore the Planet, by
L. Apraksin.
RUSSIAN, per, Radio, No 6, 1966, pp 12-13.
*ACSI J-1390
ID 2204061466

Radar Location of Moving Targets,
by P. A. Bakulev, 311 pp.
RUSSIAN, bk, Radiolokatsiya Drizhushchikhaya
Tseley, 1964, pp 1-336.
FTD-WT-64-554

Handbook on New Radio Measuring Devices,
Preface, Table of Contents, Chapter I,
by G. P. Shkurin.
RUSSIAN, bk, Spravochnik po Novym Radioizmeritel'
nym Priboram, 1966, pp 1, 5-10, 355-359.
*ACSI J-1384
ID 2204060766

Technology of Infrared Radiations,
by I. B. Levitin, 71 pp.
RUSSIAN, bk, Tekhnika Infrakrasnykh
Izlucheniy, 1959, pp 1-80.
FTD-WT-65-133

Using UHF of Radio Stations for Transmitting
Information, by P. P. Belogrivtsev, 5 pp.
RUSSIAN, per, Vest Prot Oborony, No 4,
1964, pp 39-41. TP6000750
FTD-TT-65-1816

Device for Automatic Tuning of the
Selection Channel in Radio Receivers of
Transmitters, by O. V. Sidorenko.
RUSSIAN, per, Patent No 170558, 20 Oct 1962.
*FTD-HT-66-677

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Unmarked Lines, by Karel Pokorny.
CZECH, per, Radar, No 2, 1966, pp 15-17.
*ACSI J-1364
ID 2204059866

Radar War, by J. Komarek.
CZECH, per, Vojenska Technika, No 7,
1966, pp 6-8.
*ACSI J-1311
ID 2824019966

Remarks on the Doppler Radar
Measuring Method for Interior
Ballistics Measurements, by
G. Schultze.
FRENCH, rpt, Bemerkungen zur
Doppler-Radar-Messmethode fur
Innenballistische Messungen,
Institut Franco-Allemand de Recherches
Technical Note 40/64, Dec 3, 1964, 28 p.
*NABA TT F-10,608

Surface Roughness and Effective Reflection
Coefficient of the Sea in 9Gc Band Wave
Propagation, by Takeshi Marukawa, 11 pp.
JAPANESE, per, Denki Tsushin Gakki Zasshi,
Vol 45, No 8, 1962, pp 1071-1075. 944162866
NSTIC 1791

Nuclear Science & Technology

Estimation of the Dose From Accidental Irradia-
tion by a Large Amount of High-Energy Particles,
by M. M. Komochkov.
RUSSIAN, rpt, Jul 1966, P911171366
AEC CERN-tr-66-5

Calculations of the Ion Motion in the Central
Region of a Cyclotron With Azimuthal Displacement
of the Source, by S. I. Kozlov, et al.
RUSSIAN, rpt, 1966.
*AEC LB/G/2501

Interaction Mechanism of High-Energy Cosmic
Particles With Atomic Nuclei, by V. S. Barashenkov.
RUSSIAN, rpt.
*AEC ORNL-tr-1549

Scientific
Nuclear Science & Technology (Contd)

Particle Interaction With Matter at Super-High Energies, by V. S. Barashenkov, et al.
RUSSIAN, rpt.
*AEC ORNL-tr-1550

Passage of High-Energy Neutrons in Iron-Aqueous Mixtures, by B. S. Sychev, et al.
RUSSIAN, rpt.
*AEC ORNL-tr-1537

Prospects for the Development of Research Reactors, by S. M. Feinberg.
RUSSIAN, rpt, 1965, pp 3-46. 46 p.
P911170666
AEC-Tr-6825

Statistical Basis for the Application of the Dynamic Model to Stationary Nuclear Reactors, by Ben'iamin Kozik.
RUSSIAN, per, Atomnaia Energiia, Vol 20, No 1, 1966, pp 21-26.
*AEC ANL-tr-415
EDC 1 Feb 67

Experimental Study of Reactor Energy Release by Nonuniform Fuel Redistribution, by Ye. S. Glushkov and N. N. Ponomarev-Stepnoy, 7 pp.
RUSSIAN, per, Atomnaya Energiya, Vol XX, No 6, Jun 1966, pp. 478-482.
JPRS 38833

Principles of Design and Arrangement of Biological Shielding in Marine Reactors, by D. L. Broder, K. K. Popkov, 9 pp.
RUSSIAN, per, Biologicheskaya Zashchita Sudovykh Reaktorev, 1964, pp 321-329.
P500088666
Dept of Navy/ONI Tr 2088-0

Conditions of the Formation of Particles of Radioactive Fallout and Fractioning of Isotopes in an Underground Nuclear Burst With the Escape of Gases From the Ground, by Yu. A. Israel', 6 pp.
RUSSIAN, per, Dokl. AN SSSR, Vol. 169, No 3, 21 Jul 1966, pp. 573-576.
JPRS 38744

Polarization Effects in the Coulomb Scattering of 4 MEV Neutrons by Copper, Lead and Uranium Nuclei, Cu, Pb and U, by G.V. Gorlov, N.S. Lebedeva, et al. 11 pp
RUSSIAN, rpt, Effekty Polyarizatsii Pri Kulonovskom Rasseyanii Neutronov s Energiiei 4 MEV Yadrani Medii, Svintsa i Urana, 1966. P911170066
AEC ANL-tr-371

Scientific
Nuclear Science & Technology (Contd)

Research on the Use of Organic Coolants and Moderators in Nuclear Reactors, by Yu. N. Aleksenko, N. V. Zvonov, 52 pp.
RUSSIAN, per, Institute Atomnoy Energi, 1964, pp 1-26.
Dept of Navy Tr 5033/ONI Tr 2247

Excitation of Atoms by Electron Bombardment, by G. F. Drukarev, V. I. Ochkur.
RUSSIAN, rpt, International Symposium on Properties and Applications of Low-Temperature Plasma, July 15-17, 1965. 14p.
*NASA TT F-10,691

Determination of Defects in Silicon p-i-n Detectors of Nuclear Radiation, by L. G. Yuskeseliyeva.
RUSSIAN, rpt, Ob'yedin Inst Yadernykh Issled, 1965, 14 pp.
NASA TT F-10,442

Research on the Use of Organic Coolants and Moderators in Nuclear Reactors, by Yu. N. Aleksenko and A. M. Brodskiy,
RUSSIAN, rpt, Papers of the Institute of Atomic Energy of the USSR, 611, 1964, 52 pp.
Dept of the Navy/ONI No 2247

KEV Neutron Scattering by Lead and Electric Polarizability of Neutron, by Yu. A. Aleksandrov, G. S. Samosvat, et al. 7 pp
RUSSIAN, rpt, Rasseyanie Kilovol'tnykh Neitronov Svintsom i Elektricheskaya Polyarizuemost Neitrona, 1966. P911140566
AEC ANL-tr-378

Influence of the State of a Molecular Compound on Concentration of Atoms of the Substance of an Alternating Current Arc, by A. V. Milyus.
RUSSIAN, rpt, Spektroskopiya Metody i Primeneniye, 1964, pp 15-17.
*NASA TT F-10,601

Collants for Nuclear Power Engineering Installations, by Sergey Arkhipovich Ulyb'dn, 300 pp.
RUSSIAN, bk, Teplonositali energeticheskikh yadernykh ustanovok, 1966, pp. 2-272.
JPRS 38717

Scientific
Nuclear Science & Technology (Contd)

Cyclotron Ion Source for the Generation of N^{5+} ,
by B. N. Makov.
RUSSIAN, rpt, Tsiklotronnyi Istochnik Ionov Dlya
Polucheniya N^{5+} , 1966, 19+ pp.
*AEC

Solubility of Hydrogen in Liquid
Nitrogen and of Helium in Liquid
Hydrogen as Given by Data on Nuclear
Magnetic Resonance, by I. V. Matyash,
et al.
RUSSIAN, per, Ukr Fiz Zh, Vol XI, No 5,
1966, pp 497-501.
NASA TT F-10,602

Effect of Ionizing Radiation of the
Functioning of the Vestibular Analyzer,
by N. V. Moskovskaya.
RUSSIAN, per, Vestn Oto-Rino-
Laringologii, Vol XXI, 1960, pp 59-62.
NASA TT F-10,498

Accumulation and Consumption of Radiation in
a Layer Using Separable Mirrors, by A. L.
Ganson,
RUSSIAN, per, Vesti Seryya Fizika-Tekhnicheskikh
Nauk, No 5, 1964, pp 129-131. P100073166
FTD-TT-65-1379

The Effect of the Parameters of the Absorb-
ing Medium on the Q-Switching of a Laser
Resonator, by E. G. Merzin and Yu. V. Ra-
bovkin,
RUSSIAN, per, Zhurnal Prikladnoy Optiki
Elektroniki, Vol V, No 1, 1966, pp 31-36.
*FTD-TT-67-5

Material for Manufacturing Ionizing Chambers
Which Measure the Dose of X-Ray Radiation, by
E. F. Garapov and M. F. Lebedeva, et al,
RUSSIAN, Patent No 169,776, 18 Feb 1963.
P101172966
FTD-TT-65-1302

A Three-Phase Power Source for Parametrons,
by V. Ye. Obukhov, A. P. Mikhaylenko.
RUSSIAN, per, Patent No 170765, 18 Apr 1963.
*FTD-TT-66-697

Nuclear Magnetic Resonance Spectrometer,
by V. M. Mamayev.
RUSSIAN, per, Patent No 172116.
*FTD-TT-701

Scientific
Nuclear Science & Technology (Contd)

Method for Producing a Phosphorus Isotope, by
S. Godar.
BELGIAN, Patent 633,780 19 Jun 1963. P911142166
AEC ORNL-tr-1246

Comparison of Several Radiation Charts, by
Chou Yun-Hua and Li Yu-Hai, et al,
CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol
XXXIV, No 2, 1964, pp 135-145. P100112766
AFCRL Rmm-65-35

Nuclear Detectors and Their Uses, by
Wang Chu-hsian, 761 pp.
CHINESE, bk, Ho Wu Li T'an Ts'e Ch'i I
Chi Ch'i Ying Yung, 1964, 567 pp.
FTD-TT-65-552

Propagation of Neutrons Treated by the Age
Theory: Malaga Program, by Jacques Brisbois,
Christian Devillers et al.
FRENCH, rpt. P911139066
AEC ORNL-tr-1377

Calculation of Reflection and Transmission Co-
efficients of a Slab of a Given Material for
Thermal Neutrons: Evaluation of the Radiative
Capture Gammas (Centaur 3 Program), by
Jacques Brisbois, Jacques Duco.
FRENCH, rpt, P911140366-V
AEC ORNL-tr-1376

Liquid Metals and Fast Reactors. The Thermal
Loops of the Rapsodie Reactor, by L. Vautre.
FRENCH, per, Atompraxis, Vol 9, 1963, pp 506-512.
P911174766
AEC EURFNR-95F

Contribution to the Study of the Desorption of
Fission Gases Formed in Irradiated Uranium
Oxide, by Jean-Louis Berry, et al.
FRENCH, rpt, Contribution a L'etude de la De-
sorption des Gaz de Fission Formes Dans L'Oxyde
D'Uranium Irrade.
*AEC ORNL-tr-1572
EDC 16 Feb 67

The Ispra Center Contribution to Studies on the
Behavior of Reactor Coolants and Components Under
Accident Conditions, by S. Finzi, G. Grass.
FRENCH, rpt, Contribution du Centre D'Ispra a
des Etudes sur le Comportement des Refrigérants
et des Composants de Reacteurs en Conditions
Accidentelles, Oct 24, 1966.
*AEC ORNL-tr-1563

Scientific
Nuclear Science & Technology (Contd)

A Distribution of the Penetrating Radiation Field Over the Protective Zone of the 10 GeV Synchro-Phasotron, by V. N. Lebedev, et al. FRENCH, rpt, Distribution du Champ de Rayonnement Penetrant Dans la Zone de Protection du Synchro-Phasotron de 10 GeV. *AEC ORNL-tr-1537

Study of the Interactions of Neutrons With Matter by the Monte Carlo Method (American Program ØSR) by P. Paillere. FRENCH, rpt, Etude des Interactions des Neutrons Avec la Matiere Par la Methode de Monte-Carlo (Programme Americain ØSR. P911169066 AEC ORNL-tr-1380

Diffusion of Uranium in Graphite, by M. Hrovat, G. Spener. FRENCH, per, Journal Nuclear Materials, Vol 19, 1966, pp 53-58. P911143066 AEC LA-tr-66-61

Solidification of Radioactive Sludges by Asphalt, by J. Rodier, M. Alles, et al. FRENCH, rpt, Practices in the Treatment of Low- and Intermediate-Level Radioactive Wastes, 1966, pp 713-724. P911173466 AEC ORNL-tr-1432

NG-Rays Neutron-Flux Propagation Fast Reactors, by A. Kaniz, et al. FRENCH, rpt, Proc. Seminar, Phys Fast. Intermed. Reactors, Vienna, Vol 1, 1961, pp 387-401. *AEC ORNL-tr-1554

Neutron Spectrometry in a Natural Uranium Slab Using the ${}^6\text{Li}(n,t){}^4\text{He}$ Reaction and Surface Barrier Detectors, by Ghislaine De Lœuf-Gierst. FRENCH, rpt, Spectrometrie des Neutrons dans un Massif D'Uranium Naturel au Moyen de la Reaction ${}^6\text{Li}(n,t){}^4\text{He}$ A L'Aide de Detecteurs a Barriere de Surface. *AEC ORNL-tr-1551

On the Deposition of Radioiodine in Filters of a Small Reactor Safety Device (AUER), by J. Hacke, W. Jacobi, et al. 28 pp. GERMAN, rpt, Feb 1966. P911141266 AEC-tr-6829

Parameter Studies on Gas-Cooled Fast Reactors, by D. Smidt. GERMAN, rpt, 1964, P911174266 AEC EURFNR-100F

Scientific
Nuclear Science & Technology (Contd)

The Preparation of Spherical Nuclear Fuel Particles From Aqueous Metallic Salt Solutions, by H. Bildstein, K. Knotik, et al. GERMAN, rpt, 1966. P911173566 AEC ORNL-tr-1425

Analytical Estimations for the Optimal Choice and Arrangement of Shielding Materials in Reactor Shields, by H. Schultz, et al. GERMAN, rpt, A Alytische Abschätzungen zur Optimalen Wahl und Anordnung von Abschirmmaterialien in Reaktorschildern, Sep 1965. *AEC ORNL-tr-1526

The Dose Constants of Gamma Rays, by W. Marth. GERMAN, per, Atompraxis, Vol 12, No 8, 1966, pp 392-398 *AEC LB/G/2494 *AEC ORNL-tr-1542

Calculation for Gamma Radiation Energy Spectra From Continuous Pulse Spectra of Scintillation Detectors (Part II) by W. Futtermenger, et al. GERMAN, rpt, Berechnung von Energiespektren aus Kontinuierlichen Impulshohenspektren, Teil II, Jan 1965. *AEC ORNL-tr-1518

Determination of Characteristic Values for the Diffusion of Fast Neutrons in Concrete by Measuring the Scattering of a Collimated Neutron Beam, by Hilmar Bindewald. GERMAN, rpt, Bestimmung der Kenngrößen für die Ausbreitung Schneller Neutronen in Beton durch Ausmessung des Streufeldes eines kollimierten Neutronenstrahles, 1 Feb 1966. *AEC ORNL-tr-1508

To the Determination of Fast Neutron Spectra With Threshold Detectors, by G. Stiller. GERMAN, rpt, Bestimmung des Spektralen Verlaufes des Schnellen Neutronenflusses mit Schwellwertdetektoren, Dec 1964. *AEC ORNL tr-1520

Determination of the Spectral Distribution of Fast Neutron Fluxes With Threshold Detectors, by G. Stiller. GERMAN, rpt, Bestimmung des Spektralen Verlaufes des Schnellen Neutronenflusses mit Schwellwertdetektoren, May 1965. *AEC ORNL-tr-1521

Shielding of High-Energy Electrons: The Neutron and Muon Component, by G. Bathow, E. Freytag. GERMAN, rpt, Deutsches Elektronen-Synchrotron DESY, July 1966, Experiments. P911171666 AEC ORNL-tr-1411

Scientific
Nuclear Science & Technology (Contd)

Viewpoint for an Experiment for the Investigation of the Photo-Production of Strongly Mutual Exchanging Particles With Absorption of 5 to 6 GeV Bremsstrahlung in a Thick Target, by K. Heinze. GERMAN, rpt, Gesichtspunkte für ein Experiment z zur Untersuchung der Photoerzeugung Stark Wechselwirkender Teilchen bei Absorption von 5 bis 6 GeV Bremsstrahlung in einem Dicken Target, Dec 1965.

*AEC ORNL-tr-1534

Dependence of the Irradiation Behavior of a Hardenable Ni-Cr-Fe Alloy on the State of Precipitation, by H. Bohm, et al. GERMAN, per, Journal of Nuclear Materials, Vol 20, No 1, 1966, pp 87-93.

*AEC
EDC 15 Feb 1967

Pressure Tube Power Reactors, by G. Ackermann, 47 pp. GERMAN, per, Kernenergie, Vol VI, No 8, pp 577-603. P500092165
Dept of Navy/ONI Tr 2016

Low-temperature Heat Reactors, by P. Wenzel. GERMAN, per, Kernenergie, Vol 7, No 1, 1964, pp 1-8. P911173866
AEC ORNL-tr-1256

Reactions of Tritons With ^{30}Si . I. The Nuclear Reaction $^{30}\text{Si}(t,p)^{32}\text{Si}$, by K. Jantsch. GERMAN, per, Kernenergie, Vol 9, 1966, pp 127-132. P911138966
AEC ORNL-tr-1370

Measurements of Neutron Flux in a Mockup for Power Reactor Shields in the Big Irradiation Channel on the FRG (Research Reactor Geesthacht; Germany) by G. Stiller. GERMAN, per, Neutronenflussmessungen im Modelllaufbau einer Leistungsreaktor-Abschirmung am Grossen Bestrahlungskanal des FR Geesthacht, Dec 1964.
*AEC ORNL-tr-1519

Chance Events, Pile up and Summations in a Fast-slow Coincidence, by D. Lange, et al. GERMAN, per, Nucl. Instrum. Methods, Vol 43, No 8, 1966, pp 343-348.
*AEC
EDC 1 Feb 1967

Scientific
Nuclear Science & Technology (Contd)

Determination of Strength Functions S_0 and S_1 in Nb by Identification of the Kind of Neutron Resonance, by G. Le Poittevin, S. De Barros. GERMAN, per, Nuclear Physics, Vol 70, No 3, 1965, pp 497-517. P911174466
AEC NP-tr-1440

Reactor Kinetic Approximations for the Evaluation of Safety Problems, by Paul Schmid. GERMAN, per, Nukleonik, Vol 4, 1962, pp 331-347. P911169766
AEC ANL-tr-385

Radiation Saturation and Defect Structure in Solids, by M. Balarin, et al. GERMAN, per, Phys. Status Solidi, Vol 10, 1965, pp 475-480.
*AEC
EDC 15 Feb 1967

Tables of Shielding Constants for Typical Shielding Material Constituents, by S. Sasse. GERMAN, rpt, Tabellen der Abschirmkonstanten für die Bestandteile Typischer Abschirmmaterialien, Dec 1965.
*AEC ORNL tr-1529

Protective Factor of Building of Building in Effect of Residual Radioactivity, by Mattern, GERMAN, per, Zivil Schutz, No 11, 1966, pp 376-380.
ACSI J-1480

Tenth Anniversary of the Joint Nuclear Research Institute -- A Hungarian Evaluation, by Pal Lenard, 9 pp. HUNGARIAN, per, Magyar Tudomány, Vol XI, No 9, Sept 1966, pp. 550-555.
JPRS 38890

Mean Levels of Internal Radiation in the Linear Accelerator and the Storage Ring, Note No. 263, by M. Bernardini. ITALIAN, rpt, Comitato Nazionale per L'Energia Nucleare, Laboratori Nazionali, Frascati, 27 Oct 1964.
*AEC ORNL-tr-1558

Studies on the Radioactivation by the Cobalt-60 γ -Ray Source: I. General Considerations on the Radioactivation by the use of a γ -Ray Source of Radioisotope, by Kenji Yoshihara. JAPANESE, per, Dietai to Hoshasen (Isotopes and Radiation), Vol 2, 1960, pp 276-285. P911143866
AEC ANL-tr-375

Scientific
Nuclear Science & Technology (Contd)

Studies on the Radioactivation by the Cobalt-60 γ Ray Source: III. Cross Sections of Various Nuclides for the (γ, γ)-Reaction, by Kenji YOSHIHARA.
JAPANESE, per, Doitai to Hoshasen (Isotopes and Radiation), Vol 2, No 6, 1960, pp 472-482.
P911144066
AEC ANL-tr-373

Studies on the Radioactivation by the Cobalt-60 γ -Ray Source: II. Consideration of the (γ, γ) Reaction by the use of a Non-Spherical -Ray Source, by Kenji YOSHIHARA.
JAPANESE, per, Doitai to Hoshasen (Isotopes and Radiation), Vol 3, No 6, 1960, pp 464-471.
P911144266
AEC ANL-tr-372

Evaluation of Radioactive Aerosols (I), by Takeichiro INOUE.
JAPANESE, per, Kuki Seijo (Air Cleaning), Vol 3, No 4, Nov 1965, pp 26-31. P911141166
AEC-tr-6828

First Mushroom Cloud in Alamogordo, by Wajin ISHIMARU. p 17.
JAPANESE, np, Mainichi Shinbun, 17 Jul 1966.
P911141066
AEC-tr-6827

The Radiation and Heat Balance in Poland and Its Application to Water Economy in Connection with the Water Balance, by K. Matul,
POLISH, per, Gospodarka Wodna, Vol XX, No 9, 1960, pp 392-401.
CFSTI TT 63-11363

Methods of Treatment of Liquid Radioactive Wastes Before Their Disposal Into Watercourse, by J. Makowski,
POLISH, per, Gospodarka Wodna, Vol XX, No 12, 1960, pp 525-531.
CFSTI TT 63-11363

The Radioactivity of Some Forms of Vegetation Studied in the Cluj City Area, by A. Asabo and Doina Pidu, 5 pp.
ROMANIAN, per, Studii si cercetari de fizica, Vol 17, No 1, 1965, pp. 1-4.
JPRS 38849

Institute for the Technology of Nuclear and other Mineral Raw Materials. 25 pp.
SERBO-CROATIAN, rpt, Institute za Tehnologiju Nuklearnih i Drugih Mineralnih Sirovina, Belgrade, Yugoslavia. P911139566
AEC-tr-6824

Scientific
Physics

On Anomalies in the Drift of Dense Plasma From a Pyrotron (Probkatron) Due to the Presence of a "Loss Cone", by A. A. Galejev.
RUSSIAN, rpt, 1966. P911140966
AEC-tr-6826

Some Characteristics of Cascade Pulsed Plasma Injectors, by E. A. Azizov, V. S. Komel'kov, et al. 26 pp.
RUSSIAN, rpt, 1965. P911169466
AEC UCRL-tr-10065

Movement of Conducting Bodies in a Magnetic Field, by Ya. Ya. Lielpeter,
RUSSIAN, per, Akad Nauk Latvyskoy SSR Inst Fiz, 1955, 164 pp.
*NASA TT F-10,471

Radiation Transfer in a Finite Medium, by Iu. N. Gnedin, A. Z. Dolginov.
RUSSIAN, per, Astronomicheskii Zhurnal, Vol 43, 1966, pp 800-812.
*AEC ORNL-tr-1556

Magnetostriction Delay Lines, by A. M. Gorban', G. K. Gridin.
RUSSIAN, per, Avtomatika i Priborostroyeniye, No 3, 1965, pp 35-37.
*FTD-HT-66-740

A Dynamic Thermocouple for Measurement of Plasma Temperature to 4000°C, by V. Bzhozovski, Sh. Sukerex, et al, 15 pp.
RUSSIAN, bk, Dinamicheskaya Termopara Dlya Izmereniya Temperatur Plazmy Do 4000°C, Moskva-1965, pp 1-18.
P100119666
FTD-HT-65-528

Method of Quantitative Emission Spectral Analysis Based on the Maximal Intensity of Spectral Lines in the Process of Burning a Substance, by G. A. Bepokoychitskiy, A. A. Yankovskiy.
RUSSIAN, per, Dok Ak Nauk Belorussk SSSR, Vol XVIII, No 6, 1964, pp 372-375.
NASA TT F-10,396

On the Condition for Phase Matching in Light Wave Frequency Conversion, by A. G. Khatkevich and B. V. Bokut'.
RUSSIAN, per, Doklady Akademii Nauk BSSR, Vol IX, No 6, 1965, pp 357-359.
*FTD-HT-67-31

Scientific
Physics (Contd)

The Effect of Thermal Treatment on the Photoelectric Properties of Silicon Having Structural Modifications Due to Radiation, by A. N. Sevchenko, et al. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol X, No 3, 1966, pp 148-150.
NASA TT F-10,378

Dependence of Relative Quantum Yield of Luminescence of ZnO On Length of Excitation Wave, by F. I. Vergunas, F. F. Gavrilov. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol LIX, No 7, 1968, pp 1273-1275.
NASA TT F-10,390

Polymerization and Copolymerization of Tetracyanoethylene Under the Effect of Polymers With a Conjugated System, by A. A. Berlin, N. G. Matveyeva. RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXVII, No 1, 1966, pp 91-94.
*FTD-HT-66-729

The "illumination" Effect in $\text{AuS}(\text{Co})$ Crystals induced by a Giant-Pulse Ruby Laser, by L. N. Galkin. RUSSIAN, per, Doklady Ak SSSR, Vol CLXX, No 2, 1966, pp 315-316.
*NASA TT F-10,696

Melting of Lead in a Shock Wave, by L.V. Beliakov. RUSSIAN, per, Dokl. Akad. Nauk SSSR, Vol 170, 1966, pp 540-543.
*AEC LA-tr-67-3

Study of the Process of Graft Polymerization on Acrylonitrile on Capron Fibers, by A. I. Kurilenko and V. I. Glukhov, RUSSIAN, per, Doklady Ak Nauk SSSR, Vol CLXVI, No 4, 1966, pp 901-904.
*ACSI J-1583
ID 2204001167

Method of Investigating the Stability of a Cylindrical Shell Under Longitudinal Impact, by V. I. Borisenko. RUSSIAN, per, Dopov. Adad. Nauk, Ukr. RSR, No 1, 1966, pp 875-878.
*AEC ORNL-tr-1559

Scientific
Physics (Contd)

Movement of the Two Parts After the Bursting Apart of a Volume with Gas in a Vacuum, by G. L. Grodzovskiy, F. A. Kukanov. 10p. RUSSIAN, rpt, Dvisheniye Dvukh Chastey Poale Razryva Ob'yema s Gazom v Vakuume, 1965, 11p.
FTD-TT-65-1675

Electron-Microscope Investigation of Bacteria and Phages, by A. P. Pakhov, 295 pp. RUSSIAN, bk, Elektronnomikroskopicheskoye Issledovaniye Bakteriy i Fagov, 1962, pp 224.
FTD-TT-65-1922

Asymptotic Methods of Hydrodynamic Stability Theory, by G.M. Zaslavskiy, S.S. Moiseyev, et al. RUSSIAN, rpt, Institut Yadernoi Fiziki Sibirskogo Otdeleniia AN SSSR, 1964. P911170766
AEC-tr-6834

One-dimensional Stephen Problem, by A.D. Chernyskov. RUSSIAN, per, Inzh-Fiz. Zh, Vol 7, No 1, 1964, pp 77-79.
*AEC

Characteristics of High Temperature Reaction of Carbon With Gases, by G. P. Khaustovich, Ye. S. Golovina, 9 pp. RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol VII, No 3, 1964, pp 92-96. TP5002441
FTD-TT-65-1671

Nonlinear Heat Conduction Problem of a Plane-parallel Wall With a Temperature-Dependent Source, by L. M. Galonen. RUSSIAN, per, Inzh. Fiz. Zh, Vol 7, No 3, 1964, pp 124-127.
*AEC

Application of the Integral One-parameter Method to the Solution of Heat Conduction Problems for Media With Variable Thermo-physical Characteristics, by Yu. L. Rozenshtok, et al. RUSSIAN, per, Inzh-Fiz. Zh, Vol 7, No 11, 1964, pp 98-102.
*AEC

Extrapolation of Experimental Thermal Data to High Pressure, by I. Kh. Kipnis. RUSSIAN, per, Inzh Fis Zhur, Vol X, No 3, 1966, pp 374-381.
NASA TT F-10,386

Scientific
Physics (Contd)

Comparison of Experimental Data and Semiempirical Calculations for An Incompressible Turbulent Boundary Layer With a Pressure Gradient, by A. V. Kolesnikov. RUSSIAN, per, Inzh Fiz Zh, Vol X, No 4, 1966, pp 465-471. NASA TT F-10,434

Injector Accelerator of Electrons with a Constant Phase Velocity of the Wave, by V. A. Vishnyakov and I. A. Grishayev, et al. RUSSIAN, bk, Inzhektorny Vskoritel' Elektronov s Postoyannoy Fazovoy Skorost'yu Volny, 1963, pp 1-12. *FTD-HT-67-1

Non-Equilibrium Flow of Gas Thru a Nozzle, by A. S. Pleshanov and P. A. Kon'kov, RUSSIAN, bk, Issledovaniya Po Fizicheskoy Gazodinamike, 1966, pp 141-149. *FTD-HT-67-34

A New Method of Solving Heat-Conduction Problems for Bodies of Revolution, by V. I. Makhovikov. RUSSIAN, per, Iz Ak Nauk SSSR Energ i Transport, 1965, No 5, pp 151-154. NASA TT F-10,699

Nonequilibrium Supersonic Airflow Around a Sphere, by V. P. Stulov, G. F. Telenin. 29p. RUSSIAN, per, Investiya Akad Nauk SSSR Mekhanika, No 1, 1965, pp 3-16. P 100086166 FTD-HT-65-321

Influence of the Laminar Boundary Layer in the Flow Past A Thin Blunted Cone at High Supersonic Velocities, by I. N. Murzinov, 5 pp. RUSSIAN, per, Iz An SSSR, Mekhanika i Mashinostroyeniye, No 1, 1961, pp 152-153. P100072866 FTD-TT-65-1118

Nonlinear Acoustic Oscillations of a Cylindrical Shell, by A. S. Vol'mir, I. G. Kil'dibekov, 8 pp. RUSSIAN, per, Iz Ak Nauk ANSSR, Ser Fiz-Matemat Nauk, Vol XVII, No 3, 1964, pp 65-70. TP6000163 FTD-TT-65-1948

Scientific
Physics (Contd)

Phonon Drag in InSb and GaSb, by D. Kh. Amirkhanova, R. I. Bashirov. RUSSIAN, per, Iz Ak Nauk Azerb SSR, Ser Fiz-Mat i Tekh Nauk, No 6, 1963, pp 59-65. *FTD-HT-66-776

Thermoelectric Properties of the System $CuSbTe_2$ --SnTe, by R. Kh. Nina, Ya. I. Nasirov, 7 pp. RUSSIAN, per, Iz Ak Nauk AZERBSSR, Ser Fiz-Matemat i Tekh Nauk, No 5, 1964, pp 69-72. TP6000450 FTD-TT-65-1993

Free Vibrations of a Thin Spherical Dome, by P. Ye. Tovstik. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh, No 6, 1965, pp 111-113. *FTD-HT-66-760

Linearized Unsteady Nonuniform Flow of Compressible Gas, by Zh. S. Sialyan. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh Zhid Gaza, No 2, 1966, pp 37-46. NASA TT F-10,380

Calculation of the Base Pressure in Two-Dimensional Supersonic Flows, by L. V. Gogish, G. Yu. Stepanov. RUSSIAN, per, Iz Ak Nauk SSSR, Mekhanika Zhidkosti i Gaza, May-June 1966, pp 109-114. *NASA TT F-10,659

Free-Molecular Gas Flow in Plane Channels and Grids, by A. I. Bunimovich, M. L. Egan. RUSSIAN, per, Iz Ak Nauk SSSR, Mekhanika Zhidkosti i Gaza, May - June 1966, pp 129-131. *NASA TT F-10,692

Some Variational Problems on the Acceleration of Carrier Gas in Strong Electromagnetic Fields, by G. N. Ban-Zelikovich. RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 3, 1964, pp 9-15. *FTD-HT-66-671

On the Application of the Law of Plane Sections to the Determination of the Aerodynamic Forces Acting On an Oscillating Shell, by V. V. Bolotin. RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mekh i Mash, No 1, 1961, pp 159-162. *FTD-HT-66-763

Scientific
Physics (Contd)

Investigation of the Recrystallization of Thin Films Under the Effect of Electron Bombardment, by A. I. Pilyankevich.
RUSSIAN, per, Izv Ak Nauk SSSR Ser Fiz, Vol XXX, No 5, 1966, pp 789-792.
NASA TT F-10,466

On Some Direct Methods in the Nonlinear Theory of Oscillations of Flat Shells, by I. I. Vorovich.
RUSSIAN, per, Izv Ak Nauk SSSR, Ser Matemat, Vol XXI, No 6, 1957, pp 747-784.
*FTD-HT-66-745

Superconductivity in NbC-NbN Solid Solutions, by O. I. Shulishova.
RUSSIAN, per, Izv Akad Nauk SSSR, Ser Neorgan, Mat, Vol II, No 8, 1966, pp 434-439.
NASA TT F-10,446

New Principles of Construction of the Physical Theory, by A. A. Yefimov, 87 pp.
RUSSIAN, per, Iz Astronomicheskaya Observatoriya, Pulkovo, Vol XXIII, No 2, 1963, pp 118-151.
FTD-WT-65-37

On the Conditions of Optimal Supersonic Flows with Oblique Jumps in Density and Consequent Heat Addition, by V. I. Penzin,
RUSSIAN, per, Izvestiya VUZ Aviatsionnaya Tekhnika, No 4, 1966, pp 114-120.
*FTD-HT-67-26

Effect of a Dielectric on the Length Resonance Longitudinal Slots and Turn of Polarisation of Wave H in a Round Wave Guide, by L. B. Shtrepenin. 15p.
RUSSIAN, per, Izvestiya VUZ Fizika, No 3, pp 72-77.
FTD-TT-65-762

Certain Photoconductivity Laws in Liquid Organic Semiconductors, by Yu. A. Kopylov, T. N. Trofimova, et al, 11 pp.
RUSSIAN, per, Iz VUZ Fizika, No 5, 1964, pp 28-33. P100072566
FTD-TT-65-933

Scientific
Physics (Contd)

Effect of Axial Forces and Normal Pressure on Free Oscillations of Cylindrical Shells by I. S. Rakhimov, 10 pp.
RUSSIAN, per, Iz VUZ Mashinostroyeniye, No 8, 1964, pp 42-48.
P100072766
FTD-TT-65-1035

Oscillations of an Elastic Plate in a Fluid, by A. S. Povitskiy.
RUSSIAN, per, Iz Vysch Ucheb Zaved, Ser Aviat Tekh, No 4, 1958, pp 30-35.
*FTD-HT-66-790

On the Theory of Coulomb Interaction, by I. I. Tugov.
RUSSIAN, rpt, Joint Inst for Nuclear Research, Lab. of Theoretical Physics, 1966.
*NASA TT F-10,677

Beam Neutralizer for Intense Ion Beams, by V. I. Butusov, P. A. Mukhin, et al.
RUSSIAN, rpt, Kurchatov Report, Apr. 1966, pp 1-15. P911172666
AEC NP-tr-1432.

Dialectical Materialism and Modern Physics, by Yu. Sachkov, 13 pp.
RUSSIAN, per, Kommunist, No. 14, 24 Sept 1966, pp. 15-25.
JPRS 38654

On the Optimal Energy of Incident Neutrons in Neutron-capture Therapy, by Yu. S. Ryabukhin.
RUSSIAN, per, Meditzinskaya Radiologiya, Vol 11, No 6, 1966, pp 9-12.
*AEC

Light Reflection From Rough Surfaces, by V. K. Polyanskiy, V. P. Ryachev.
RUSSIAN, per, Optika i Spektroskopiya, Vol XX, No 4, 1966, pp 701-708.
P200096066
RBIC-588

Peculiarities of Burning of Electric Arc in Plasmatrons and Similarity Criteria, by M. F. Zhukov, 43 pp.
RUSSIAN, bk, Osobennosti Goreniya Elektricheskoy Dugi v Plasmatronakh i Kriterii Podobiya, 1965, pp 1-44.
FTD-WT-65-532

Scientific
Physics (Contd)

Semiconductor Nuclear Particle Counter
by S. M. Ryvkin, O. A. Matveyev, et al.
55 pp.

RUSSIAN, bk, Poluprovodnikovyye Schetchiki
Yadernykh Chastits, Vypusk 10, 1964,
pp 1-40.
*FTD-WT-65-138

X-Ray Study of the Component Atomic
Scattering and Structural Defects
of Titanium Carbide, by M. P. Arbuzov,
B. V. Khayenko.

RUSSIAN, per, Poroshkovaya Met, Vol XVI,
No 3, 1966, pp 64-70.
*NASA TT F-10,426

Generation of Nanosecond Light Pulses With
External Synchronization by A. P. Omuchin.
RUSSIAN, per, Priory i Tekhnika Eksperimenta,
No 4, July-Aug 1966, pp 97-101.
*NASA TT F-10,662

On Effect of Initial Deflections on the
Stability of Finned Cylindrical Shells
Under Axial Compression, by I. Ya. Amiro.
RUSSIAN, per, Prikl Mekh, Vol II, No 1,
1966, pp 53-58.
*FTD-HT-66-785

Conference on Problems of High-Temperature
Strength, by L. V. Kravchuk.
RUSSIAN, per, Prikl Mekh, Vol II, No 1,
1966, pp 141-143.
*FTD-HT-66-785

Stability of Shells of Revolution With a
Generator of Arbitrary Curvature, by
S. S. Kan.
RUSSIAN, per, Prikl Mekh, Vol II, No 2,
1966, pp 36-43.
*FTD-HT-66-786

Stress Concentration Around Circular Hole
in an Orthotropic Cylindrical Shell, by
Ya. A. Ashmarin.
RUSSIAN, per, Prikl Mekh, Vol II, No 2,
1966, pp 44-48.
*FTD-HT-66-786

Stability of a Cylindrical Shell Made of
Nonlinearly Deformable Material, by
G. B. Kireyeva.
RUSSIAN, per, Prikl Mekh, Vol II, No 3,
1966, pp 10-14.
*FTD-HT-66-787

Scientific
Physics (Contd)

Solution of a Dynamic Problem for a Flat
Spherical Shell, by Yu. E. Senitskiy.
RUSSIAN, per, Prikl Mekh, Vol II, No 3,
1966, pp 15-20.

*FTD-HT-66-787

The Effect of Stiffening Shallow Shells of
Revolution Subject of Symmetrical Loading,
by V. M. Mitkevich and A. K. Shulika,
RUSSIAN, per, Prikladnaya Mekhanika, Vol II,
No 7, 1966, pp 58-64.

*FTD-HT-67-27

Approximate Method for the Determination of the
Natural Oscillation Frequencies of Cylindrical,
Conic, and Toroidal Shells, by I. I. Meyerovich.
RUSSIAN, rpt, Prochnost' Dinam Aviats
Dvigat 1965, pp 148-172.
NASA TT F-10,377

Tests of the Consequences of Unitary Symmetry in
Hadron Production Reactions (Survey), by
A.D. Dolgov, V. V. Solov'ev. 100 pp.
RUSSIAN, rpt, Proverka Sledstviy Unitarnoi Sim-
metrii Reaktsiyakh Adronov (Obzor), 1965.
P911007867-V
AEC tr-6807

Handbook on Semiconductor Instruments,
by Vladimir Yulianovich Lavrinenko.
RUSSIAN, bk, Spravochnik po Poluprovodnikovym
Priboram, 1964, pp 1-323.
*FTD-HT-66-686

Theory of Linear Pulse Systems,
by Ya. Z. Tsypkin. 1037 pp.
RUSSIAN, bk, Teoriya Lineynykh
Impul'snykh Sistem, 1963, pp 1-968.
*FTD-WT-64-133

Study of Deviation From the $1/\omega$ Law in the
Energy Dependence of the Cross Sections of the
(n, α) and (n, p) Reactions in Light Nuclei¹,
by A. A. Bergman.
RUSSIAN, per, Trudy Akad. Nauk SSSR, Fiz, Inst,
Vol 24, 1964, pp 169-202. P911139866
AEC LA-tr-66-60

Analysis of the Special Reflecting Properties
of Natural Formations with the Air of Selecting
the Optimal Zones of Sensitization on Light-
Sensitive Films, by S. M. Solov'yev and
A. L. Starosel'skiy,
RUSSIAN, per, Trudy Vsesoyuznyi Nauchno Issled-
ovatel'skiy Kinofotoinstitut, 1962, pp 104-119.
*FTD-HT-66-761

Scientific
Physics (Contd)

The Determination of Diffusion Coefficients and Electric Resistances of Admixtures in Liquid Metals, by F. P. Golyuk, P. P. Kuzmenko, et al. RUSSIAN, per, Ukrainskii Fiz. Zhurnal, Vol 10, No 11, 1965, pp 1227-1236. P911140766
AEC IS-tr-47

Studying Reflecting Properties of Certain Systems, Having a Periodic Structure, by A. A. Semenov and D. K. Kvavadze, RUSSIAN, per, Universitet Vestnik Seriya Matematika Mekhanika Astronomiya Fizika Khimii, No 1, 1958, pp 107-114.
P100091466
FTD-TT-65-1273

Calculation of Thermodynamic Functions of Chemically Reactive Gases, by V. B. Nesterenko, V. P. Bibnov. RUSSIAN, per, Vestn Akad Navuk Belarusk SSR, Ser Fiz Tekhn Navuk, No 1, 1966, pp 5-14.
NASA TT F-10,400

Flat, Non-Isothermic Flow of Dripping Liquid with Variable Viscosity, by V. P. Kashkarov. RUSSIAN, per, Vestnik Akad Nauk Kazakhskoy SSR, No 9, 1965, pp 61-67.
*ACSI J-1345
ID 2204058766

Magnetohydrodynamics of Condensed Media, by I. M. Kirko, RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 4, 1966, pp 101-107.
*ACSI J-1592
ID 2204002067

Stabilization of the Conductivity of Vitreous Selenium, by M. El'Mosli, Z. U. Borisova. RUSSIAN, per, Vestnik Leningradskogo Universiteta - Seriya Fiziki i Khimii, Vol 3, No 16, 1965, pp 147-150.
ACSI J-1132
ID 2204053666

Computation of the Vibrational Frequencies of a Molecule of Hydrazin N_2H_4 , by Yu. I. Kotov, G. S. Koptev, 6 pp. RUSSIAN, per, Vest Mosk Univrs, Ser II, Khim, No 3, 1963, pp 10-13. TP6000449
FTD-TT-65-1900

Scientific
Physics (Contd)

Problems of Astrophysics, by A. F. Bogorodakiy. RUSSIAN, bk, Voprosy Astrofiziki, 1966.
*NASA TT F-455

Lifetime of Individual Charged Particles in a Magnetic Mirror Trap, by V.M. Balebanov, N. N. Semashko. 60 pp. RUSSIAN, rpt, Vremya Zhizni Otdel'nykh Zaryazhennykh Chastits v Magnitnoi Lovushke s Problemi, Moscow, 1966. P911011667-V
AEC UCRL-tr-10076

Electron Gas in a Magnetic Field, by Ye. M. Lifshitz. RUSSIAN, per, Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, Vol VII, 1937, pp 390-400.
*NASA TT F-10,687

Luminescence Spectra of Zinc Oxide, by V. I. Vergunas, F. F. Gavrilov. RUSSIAN, per, Zh. Eksperim i Teor Fiz, Vol XVIII, No 2, 1948, pp 224-227.
NASA TT F-10,454

The Kinetics of Thermal Decomposition of Silver Oxalate, by B. V. Yerofeyev, et al. RUSSIAN, per, Zh Fiz Khim, Vol XX, No 10, 1946, pp 1103-1112.
NASA TT F-10,415

The Dependence of Chemical Reaction Rates on Pressure, by M. G. Gonikberg, L.F. Vereshagin. RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol 23, No 12, 1949. P911143666
AEC BNL-tr-93

The Combustion of Mixtures Containing Potassium Perchlorate as Oxidizer and Metal Fuels in a Vacuum, by P. F. Pokhil and L. D. Romodanova, RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol XXXIX, No 11, 1965, pp 2757-2759.
ATD tr-66-76

Catalytic Properties of Systems Consisting of Powdered Metals and Phthalocyanines, by S. D. Levina et al, 7 pp. RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol XL, No 6, 1966, pp. 1229-1233.
JPRS 38687

Scientific
Physics (Contd)

High Temperature Oxidation of Some Rare Earth-Metal Silicides, by T. C. Verkhoglyadova, I. A. Dvorina.
RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol XI, No 9, 1966, pp 2250-2254.
*NASA TT F-10,663

Resolution and Microphotometric Granularity of Infrared Films, by I. I. Breido.
RUSSIAN, per, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol XI, 1966, Jan-Feb, pp 59-60.
*NASA TT F-10,664

Current Distribution in Permeable Electrodes Influenced by the Hall Effect in the Flow of an Electrically Conducting Medium, by Yu. P. Yemets.
RUSSIAN, per, Zh. Prikl Mekh i Tekhn Fiz, No 3, 1966, pp 35-41.
NASA TT F-10,496

Increase of Strength of Adhesion of the Metallic Coatings by Initial Passivation, by L. I. Kadaner, et al.
RUSSIAN, per, Zhurnal Prikladnoy Khimii, Vol XXXIX, No 9, 1966 Sept, pp 1956-1959.
*NASA TT F-10,666

Stress Distribution at the Vertex of a Growing Crack, by L. B. Zuev, I. A. Ertkin, et al.
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki, May-June 1966, pp 107-111.
*NASA TT F-10,668

Effect of Errors in the Profile of Diffraction Grating Lines on the Distribution of Intensity in Polarized Light, by E. A. Yakovlev, F. M. Gerasimov.
RUSSIAN, per, Zhur Prikl Spektros, Vol II, No 5, 1965, pp 402-408.
*FTD-HT-66-720

A Simple Method for the Separation of the Channel and the Flare of a Spark Discharge, by S. M. Rayskiy,
RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol V, No 1, 1966, pp 118.
*FTD-HT-67-3

Theory of the Photomagnetic Effect in Semiconductors in Strong Magnetic Fields, by A. I. Ansel'm.
RUSSIAN, per, Zhurnal Tekhnicheskoi Fiziki, Vol 24, No 11, 1954, pp 2064-2069.
*AEC

Scientific
Physics (Contd)

Probe-Method Investigation of the Plasma in Thermionic Converters With High Cesium Pressure. III. Distribution of the Concentration, the Electron Temperature, and the Space Potential in the Interelectrode Gap of Thermionic Converters, by G. A. Dyuzhev, F. G. Baksht, et al.
RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, Vol XXXVI, No 9, 1966, pp 1685-1697.
*NASA TT F-10,695

The Calculation of Flow in a Plane Laval Nozzle, by A. P. Favorskiy, et al.
RUSSIAN, per, Zh. Vychisletel Mat i Mat Fiz, Vol III, 1963, pp 130-134.
NASA TT F-10,494

The Theory of the Heat Potential (Installment I) Direct Values of the Heat Potentials and the Reverse Problem in the Theory of the Heat Potential, by Wang T'ung, 18 pp.
RUSSIAN, per, Zhur Vych Mate i Matemat Fiz, Vol IV, No 4, 1964, pp 660-670. TP5002873
FTD-TT-65-1686

Multiple-point Manometer with Dynamic Compensation and Distance Registration, by N. N. Chernov and V. I. Volkov, et al,
RUSSIAN, Patent No 155,113, 24 Jul 1961.
*FTD-HT-67-20

Method of Obtaining Doppler Frequency Shifting in the Optical Wave Band, by Ye. G. Ritger, S. M. Naumov.
RUSSIAN, per, Patent No 168764, 4 Nov 1964.
*FTD-HT-66-674

Device for Imitating the Propagation of a Plane Wave Over a Conducting Surface, by M. Ya. Gil'chenok, Ye. G. Pashchenko.
RUSSIAN, per, Patent No 169593, 3 Jun 1964.
*FTD-HT-66-679

Method of Roughening a Dielectric, by I. I. Eliasberg, I. M. Teryayeva.
RUSSIAN, per, Patent No 170653, 3 Dec 1963.
*FTD-HT-66-681

A Study of Plastic E-Formation of Singular Crystals of Molybdenum, by Chou Pang-Hsin.
CHINESE, per, Acta Physica Sinica, Vol 19, No 5, 1963, pp 296-305.
*NASA-TT-F-10,714

Scientific
Physics (Contd)

Raman Spectral Analysis of Xylene, by Liu, Wen-po; Chang, Pao-shan. CHINESE, per, Hua Hsueh T'ung Pao, No 1, 1966, pp 30-34. *FTD-HT-66-800

The Normal Mode Sound Field in Shallow Water With Negative Gradient, by Chang Jen-ho (1728 0088 0735), 10 pp. CHINESE, per, Sheng-hsueh Hsueh-pao, Vol II, No 1, Mar 1965, pp. 24-28. JPRS 39107

Orthogonal Wave Functions of a Stratified Medium, by Chang Jen-ho (1728 0088 0735), 5 pp. CHINESE, per, Sheng-hsueh Hsueh-pao, Vol II, No 1, Jun 1965, pp. 102-103. JPRS 39107

Lasers and Their Application in Geodesy, by J. Tlustý. CZECH, per, Geodeticky a Kartograficky Obzor, No 3, 1966, pp 62-67. *FTD-HT-66-744

Sound Levels of Light Weapons, by R. Plomp. DUTCH, rpt, RVO-TNO Rapport No. IZF 1960-10, 27p. *ACSI J-1399 ID 2204061966

Firing-Range Acoustics, by R. Plomp. DUTCH, rpt, RVO-TNO Rapport No. IZF 1964-20, 22p. *ACSI J-1401 ID 2204062166

Production of an Intense Source of Microsecond Proton Pulses, by J. L. Belmont. FRENCH, rpt, 1965. P911172966-V AEC NP-tr-1437

Kinetics of Transuranium Element Oxidation-Reduction Reactions in Solution, by Daniel Gourisse. FRENCH, rpt, Cinetique des Reactions D'Oxydo-Reduction des Elements Transuraniens en Solution. *AEC ORNL-tr-1574

Scientific
Physics (Contd)

Separation of Isozymes Hyroising L'eucyl'-B Naphtahlyade by Vertical Electrophoresis in Acrylamide Jell, by H. Kleiner and E. Schran, FRENCH, per, Clinica Chimica Acta, Vol XIV, 1966, pp 377-385. *NASA TT-F-10724

Infrared Absorption Spectra of the Sulfates of Nickel; Cobalt, Zinc, and Magnesium, by Claude Rocchiccoili, FRENCH, per, Comptes Rendus, Vol 257, 1963, pp 3851-3854. *AEC ORNL-tr-1547

Calculation of Cooling Effects of Fluid Flow, by J. Boussinesq. FRENCH, per, Journal de Mathematiques Pures et Appliquees, Vol I, No 6, 1905, pp 285-332. P911170466 AEC ENL-tr-102

X-Ray Examination of Uranium Oxides of the UO₂ Type After Quenching, by B. Belbeoch, E. Perio. FRENCH, per, Journal of Nuclear Materials, Vol 13, No 1, 1964, pp 100-106. P911169166 AEC ORNL-tr-1410

Continued Analysis of the Absorption Spectrum of Argon and Neon Between 2 and 8Å, by Francois Willeumier. FRENCH, per, J. Physique, Vol 26, 1965, pp 776-784. *AEC ORNL-tr-1545

A Study of Electronic Paramagnetic Resonance of Color Centers in Alkali Halides, by G. Bacquet. FRENCH, per, Journal Physique, Vol 27, No 1-2, 1966, pp 97-112. *NASA-TT-F-10,715

Thermogravimetric and Infrared Absorption Spectrographic Studies on Some Double Sulfates of the Magnesium Series. II. Infrared Absorption Spectrography, by Claud Rocchiccoili. FRENCH, per, Mikrochim. Acta, 1964/1965, pp 764-769. *AEC ORNL-tr-1548

Reaction of Uranium and Plutonium Carbides With Nitrogen, by Robert Lorenzelli, et al. FRENCH, rpt, Reaction Avec L'Azote des Carbures D'Uranium et de Plutonium, Mar 1966. *AEC

Scientific
Physics (Contd)

On the Solution of a Few Problems of Multiple Scattering by Monte-Carlo Method, by Jean-Claude Bluet.
FRENCH, rpt, Sur la Solution de Quelques Problemes de Diffusions Multiples par la Methode de Monte-Carlo.
*AEC ORNL-tr-1546

Fluid Mechanics, by Kaufmann, Walther, GERMAN, bk, 1963, 432 pp.
New York, McGraw-Hill
Dept of Inter
QA901 K38

Study on the Behavior of Gamma Radiation in Air, by Maria Tisljar.
GERMAN, per, Acta Physica Austriaca, Vol 21, No 1/2, 1966, pp 198-203.
*AEC ORNL-tr-1543

Applications of the DAGMAR Dimensional Analysis. Determination of the Geometry Correction Factor of the Flow Density in the Modeling Experiment in Geesthacht. Supplement to Report ABS-THH-1005, by C. D. Wunke.
GERMAN, rpt, Anhang zum Bericht ABS-THH-1005. Anwendungen der Modellrechnung DAGMAR: Ermittlung des Durch die Geometrie Bedingten Korrekturfaktors der Flusssichte Beim Modell-versuch in Geesthacht, Feb 1965.
*AEC ORNL-tr-1513

Entropy Effects in Three-Dimensional Hypersonic Flows of Gas over Slightly Blunt-Nosed Bodies, by V. V. Sychev. 6p.
POLISH, per, Archiwum Mechaniki Stosowanej, Vol 16, No 2, 1964, pp 517-519.
FD-TT-65-1827

Calculation of Secondary Gamma Rays for a Mock up of a Power Reactor Shield on the FRG (Research Reactor Geesthacht, Germany), With the Program Grace I, by S. Sasse, et al.
GERMAN, rpt, Berechnung der Sekundaren Gammastrahlung fur einen Modellaufbau einer Leistungsreaktor - Abschirmung am FRG mit Hilfe des Rechenprogramms Grace I, Nov 1964.
*AEC ORNL-tr-1517

Calculation of Gamma Radiation Build-up Factors in Laminated Shields, by H. Schubart.
GERMAN, rpt, Berechnung von Gammastrahlungszuwachsfaktoren in Geschichteten Schilden, Dec 1965.
*AEC ORNL-tr-1527

Scientific
Physics (Contd)

Reflection Spectra of Fluorides of Bivalent Chromium, by D. Oelkrug.
GERMAN, per, Berichte der Bunsengesellschaft fur Physikalische Chemie, Vol 70, No 7, 1966, pp 736-744.
*AEC LB/G/2506

Base Pressure Investigations on Plane Gas Flow of Variable Temperatures and Speeds, by K. D. Emmethal.
GERMAN, rpt, Deut Forschungsanstalt Luft-und-Raumfahrt, DFL-Ber 65-69, 23 November 1965.
*NASA TT F-10,452

X-Ray Spectrochemical Measurements on Light Elements Using an Electron Probe Micro-Analyzer, by H. de Laffolie, G. Lennartz.
GERMAN, per, LEW Techn. Ber, Vol 6, No 2 1966, pp 80-84.
BISI 5157

A System for the Generation of Monochromatic Radiation for Photobiological Investigations, by G. Schoer.
GERMAN, rpt, Eine Anlage zur Erzeugung Monochromatischer Strahlung fur Photobiologische Untersuchungen 9 p.
NASA TT F-10,367

A Method of Measuring Build-up Factors for Gamma Energies From 0.5 to 15 MeV, by W. Futtermenger.
GERMAN, rpt, Eine Methode zur Messung der Zuwachsfaktoren im Gammastrahlenergie-Bereich von 0.5-15 MeV, Apr, 1964.
*AEC ORNL-tr-1514

Replacement Possibilities of Ion Accelerators in Shielding Experiments, by H. Schultz.
GERMAN, rpt, Einsatzmoglichkeiten von Ionenbeschleunigern bei Abschirmungsexperimenten, Dec 1965.
*AEC ORNL-tr-1528

The Fluorescence Fading of Some Inorganic Scintillators at the Excitation by α -Particles, Protons or γ -rays (electrons), by H. Neuert.
GERMAN, per, Festkorperprobleme, Vol 1, 1962, pp 239-259.
*AEC
EDC 1 Feb 67

Scientific
Physics (Contd)

General Quantum Theory of Collision Processes,
by W. Brenig, et al.
GERMAN, per, Fortschritte der Physik, Vol 7,
1959, pp 183-242.
*AEC LB/G/2495

Measurements of the Continuum Radiation of a
Theta Pinch Plasma Between 4000 and 6000 Å and
5 and 20 Å for the Investigations of the Heat-
ing of Electrons, by J. Schluter,
GERMAN, rpt, Institute for Plasma Physics at
Kernforschungsanlage Julich Des Landes Nordr-
hein-Westfalen-e.V. Assoziation EURATOM-KFA,
Sept 1966, 79 pp.
Dept of Navy/NRL No 1087

The Determination of Local and Mean Heat Transfer
Coefficients in Tubes at High Heat-Flux Densities,
by W. Hufschmidt, E. Burck, et al.
GERMAN, per, Int. Jour. of Heat and Mass Transfer,
Vol 9, 1966, pp 539-565. P911174166
AEC UCRL-tr-10064

Spectral Theory of Semibounded Operators
and Their Use in Spectral Analysis of
Differential Operators, by K. Friederichs.
GERMAN, per, Mat Ann Vol CIX, 1934,
pp 465-713.
NASA TT F-10,295

Scattering of Light, Polarization and Extinction
of Ammonium Chloride and Cigarette Smoke, by
F. Volz,
GERMAN, per, Optik, Vol XX, No 6, 1963, pp
293-303.
Dept of Navy/NRL No 1085

On a New Nonmagnetic Dynamic Mass
Spectrometer, by M. J. Hignatsberger,
et al.
GERMAN, rpt, Osterreichische
Studiengesellschaft fur Atomenergie
G.m.b.H. 10 pp.
NASA TT F-10,465

X-ray Scattering on Crystals With Dislocations.
I. Cylindrical Crystal With Axial Screw Dis-
location, by H. Wilkens.
GERMAN, per, Physica Status Solidi, Vol 2, 1962,
pp 692-712. P911172066
AEC NP-tr-1441

Problems in the Production of Thin Films, by
W. Reichelt.
GERMAN, per, Vakuum-Tech, Vol 15, No 1, 1966,
pp 1-8. P911174066
AEC UCRL-tr-10063

Scientific
Physics (Contd)

Laws of Turbulent Flow in Smooth Pipes,
by J. Nikuradse.
GERMAN, rpt, VDI Forschungshft 356,
Beilage zu Forsch Geb-Ing, VDI-Verlag
CmbH, 1932, 36 p.
NASA TT F-10,359

Phase Correlation Between Alternating Sound-
wave Pressure and Sono-luminescence, by
P. Gunther, et al.
GERMAN, per, Zeitschrift fur Angewandte Physik,
Vol 11, No 7, 1959, pp 274-277.
*AEC LB/G/2505

Determination of Crystallite Size Distribution
From the Broadening of X-ray Lines, by
F. Hossfeld, et al.
GERMAN, per, Zeitschrift fur Angewandte Physik,
Vol 20, No 6, 1966, pp 493-498.
*AEC LB/G/2498

On the Determination of Critical Values
of Real Gases and Liquids and General Equation
of State of Saturated Vapors, by E. Kordes
15 pp.
GERMAN, per, Zeit fur Elektrochemie, Vol LVII,
No 8, 1953, pp 731-738.
Dept of Navy Tr 5032/ONI Tr 2237

Light Figures, Their Origin and Application
for Determining the Orientation of Crystals,
by E. Gengnagel, W. Schaub.
GERMAN, per, Z. Metallk, Vol 57, Apr 1966,
pp 281-287.
BIBI 4941

Deflection of Cathode- and Canal Rays
at the Edge of a Condenser Whose Stray
Field is Limited by a Diaphragm, by
R. Herzog.
GERMAN, per, Z. Phys, Vol XCVII, 1935,
pp 596-602.
NASA TT F-10,464

Applications of Oscillo-Polarography in Some
Textile-Chemical Studies Part 6, Relations
Between the Structure of 2-Hydroxy-3-Naphth-
anilide and Its Derivatives and Their Oscil-
lo-Polarographic Behavior, by G. Palyi and
F. Peter.
HUNGARIAN, per, Magyar Kemiai Folyirat, Vol
LXXI, NA 1, 1965,
*ACSI -J-1588
ID 4204001667

Scientific
Physics (Contd)

A Study and Observations of Sintered Uranium and Thorium Oxides, by A. Bassi, E. Brutto, et al. ITALIAN, per, Energia Nucleare, Vol 13, No 3, 1966, pp 122-132. P911171766
AEC WAPD-tr-41

The Vibration Behavior of Circular Conical Shells, by Tang, Chao-Tsien, Hong, Zhong-yu. JAPANESE, per, Acta Mechanica Sinica, Vol IX, 1966, pp 14-26.
NASA TT F-10,393

New Colorimetric Determination Using Thiocyanates. XV. Determination of Traces of Bromide in the Presence of Chloride and Iodide, by I. Iwasaki. JAPANESE, per, Nippon Kagaku Zasshi, Vol 80, No 7, 1959, pp 744-749.
*AEC LB/G.2497

Solution of Supersonic Gas Flow Over an Elongated Blunt Body by the G. G. Cherny'ny Approximation. POLISH, per, Archiwum Mechaniki Stosowanej, Vol XVI, No 3, 1964, pp 571-576.
*FTD-HT-66-704

The Asymmetric Hypersonic Blunt-Body Problem, by S. S. Grigoryan, W. J. Prosmak. POLISH, per, Archiwum Mechaniki Stosowanej, Vol XVI, No 3, 1964, pp 689-708.
*FTD-HT-66-704

Possibility of Using the Field Effect in CdS For the Design of Photosensitive Switching Devices, by J. Lagowski, J. Sochanski. POLISH, per, Przeglad Elektroniki, No 5, 1965, pp 228-231.
*FTD-HT-66-726

Experimental Investigations of Hypersonic Flow, by Robert Rovinski, 25 pp. POLISH, per, Technika Lotnicza, No 1, 1965, pp 9-19.
FTD-TT-65-1789

Propagation of Shock Waves Through Water Intakes Into Tunnel-Type Installations, by Arne Karlen, Gunnar Lindh, 33 pp. SWEDISH, rpt, Royal Swedish Fortification Administration, Research Section, No 111, 1962.
Dept of Navy ONI Tr 2241/Navy Tr 4949

Scientific
Physics (Contd)

The Effect of Geometrical Distortions of the Crystal Lattice on X-Ray and Thermal Neutron Scattering by Multiconstituent Unordered Solid Solutions, by M.A. Krivoglaz, E.A. Tikhonova. UKRAINIAN, per, Ukrainskii Fizichnii Zhurnal, Vol 3, No 2, 1958, pp 297-312. P91116966
AEC BNL-tr-104

Theory of X-Ray Scattering by Multicomponent Ordered Solutions, by M.O. Krivoglaz, O.A. Tikhonova. UKRAINIAN, per, Ukrainskii Fizichnii Zhurnal, Vol 5, No 2, 1960, pp 158-173. P911169966
AEC BNL-tr-103

A Method of Studying the Mobility of Atoms in Liquid Metals, by F.P. Golotyuk, P.P. Kuzmenko. UKRAINIAN, per, Ukrainskii Fizichnii Zhurnal, Vol X, No 12, 1965, pp 1359-1364. P911171266
AEC IS-tr-48

Propulsion & Fuels

Critical Tests with the Organic Moderators Monoisopropylbiphenyl and Gas Oil, by Yu. N. Aieksenko and V. I. Burytnitskaya, et al. RUSSIAN, per, 1964, pp 182-193.
*FTD-HT-66-746

Vaporizing Combustion Chamber of Gas-Turbine Engine and Features of Its Operation, by Ye. P. Fedorov, Yu. I. Shal'man, 15 pp. RUSSIAN, per, Avtomobil'naya Promy, No 5, 1964, pp 42-45. TP6000121
FTD-TT-65-1855

Effect of Sulfurous Compounds on Thermal Stability and Corrosive Properties of Fuels for Turbocompressor Air-Reactive Engines, by P. I. Davydov, G. F. Bol'shakov. 10p. RUSSIAN, bk, Bor'ba Korrosiyey Dvigatelay Vnutrennego Sopraniya i Gasoturbinnyykh Urstanovok, 1962, pp 272-280. P 100090866
FTD-TT-65-1276

Passenger-Train Gas-Turbine Locomotive GT-1, by S. F. Pavlov. RUSSIAN, per, Elektricheskaya i Teplovocnaya Tranzp. No 7, 1965, p 28.
CASI J-1434
ID 2204063066

Scientific
Propulsion & Fuels (Contd)

Use of Aviation Gas-Turbine Engines as Sources of Reserve Power, by N. A. Seulin. RUSSIAN, per, Elektricheskiye Stantsii, No 3, 1965, pp 47-49.
*ACSI J-1308
ID 2204058166

Effect of the Clearances Between the Casing and the Wheel Upon the Efficiency of the Centripetal Gas Turbine, by A. Ye. Zaryankin, M. F. Zatselin. RUSSIAN, per, Energomashinostroyeniye, No 3, 1964, pp 33-35.
NASA TT F-10,450

Cleaning Air Entering Gas Turbine Units, by V. N. Steshenko. RUSSIAN, per, Gazovaya Promyshlennost', No 4, 1966, pp 23-26.
*ACSI J-1391
ID 2204061566

A. Research and Development of Air Cooling Systems in Gas Turbine Elements. B. Reply to Remarks of M. I. Tsaplin, by M. I. Tsaplin. RUSSIAN, per, Izvestiya Akad Nauk SSSR -- Energetika i Transport, No 2, 1965, pp 149-150.
*ACSI J-1346
ID 2204059066

Asymptotic Method for Calculating the Temperature field of the Working Blades of Gas Turbines, by I. S. Lyubchenko. RUSSIAN, per, Izvestiya VUZ Aviatzionnaya Tekhnika, No 2, 1965, pp 92-102.
*FTD-HT-67-40

Theoretical and Experimental Qualities and Fuel Economy of the Gas Turbine Bus ZIL-127, by A. P. Kuznetsov. RUSSIAN, per, Izvestiya VUZ Mashinostroyeniye, No 4, 1965, pp 126-135.
*ACSI J-1433
ID 2204062966

Experimental Investigation of the Influence of Cooling on the Hydraulic Effectiveness of the Constrictive Section of High-Temperatures Gas Turbines, by E. A. Manushin. RUSSIAN, per, Izvestiya VUZ Mashinostroyeniye, No 5, 1965, pp 94-102.
*ACSI J-1344
ID 2204058866

Scientific
Propulsion & Fuels (Contd)

Theoretical Studies on Mixture Formation in a Pre-Chamber Engine with Mixture Delivery Through the Ante-Chamber, by L. M. Sobolev. RUSSIAN, per, Izvestiya VUZ Mashinostroyeniye, No 5, 1964, pp 126-132.
*ACSI J-1357
ID 2204061066

Oils for Gas-Turbine Installations, by B. V. Losikov, A. D. Fat'yanov, 13 pp. RUSSIAN, per, Khim i Tekh Topliv i Masel, No 3, 1964, pp 58-62. TP6000117
FTD-TT-65-1843

Investigation of the Antiwear Properties of Reactive Fuels, by A. P. Gryaznov, I. V. Roshkov. 8p. RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Masel, No 4, 1964, pp 57-60. P100090666
FTD-TT-65-1730

Gas Turbine Designs, by I. A. Chinyayev. RUSSIAN, rpt, Sudovyye Gazovyye Turbiny, 1964, pp 63-73; 194-224.
ACSI J-0764
ID 2204048066

Fuels For Jet Engines, by Ya. B. Chertkov, G. F. Bol'shakov, et al. RUSSIAN, bk, Topliwa i Reaktivnykh Dvigately, 1964, pp 1-226.
FTD-MT-66-02

Motor Oil Requirements for Tractor Diesels, by S. G. Arabyan. RUSSIAN, per, Traktory i Sel'khoz Mashiny, No 9, 1966, pp 15-17; 17-18.
*ACSI J-1310
ID 2204058366

Proceedings of the Group Scientific and Technical Conference on Problems of Fluid Mechanics, RUSSIAN, per, Trudy Doklady Kustovoy Nauchno-Tekhnicheskoy Konferentsiy po Voprosam Mekhaniki Zhidkosti i Gasa, Kuybyshevskiy Aviatzionnyy Institut, 1963, Vol XV, Part 2, pp 106-156, 299-307. P100134066-V
FTD-TT-65-1366

Pressure Distribution in a Vortex Combustion Chamber, by P. M. Mikhaylov, A. N. Shtym, 8 pp. RUSSIAN, per, Trudy Inst Politekh, No 232, 1964, pp 42-46. TP5002843
FTD-TT-65-1712

Investigation of the Endurance of Composite Rotors of Gas Turbines, by I. V. Kudryavtsev. RUSSIAN, per, Vestnik Mashinostroyeniya, No 2, 1965.

*ACSI J-1306
ID 2204057966

Future Trends in the Development of Piston and Combination Internal Combustion Engines, by A. S. Orlin.

RUSSIAN, per, Vestnik Mashinostroyeniya, No 4, 1965, pp 3-8.

*ACSI J-1371
ID 2204060466

The TsNII MPS Experimental Turbine Powered Train, by L. A. Shevchenko et al.

RUSSIAN, per, Vestnik Vsesoyuznogo Nauchno-Issledovatel'nogo Instituta Zheleznodorozhnogo Transports, No 7, 1965, pp 6-11.

*ACSI J-1392
ID 2204061666

The Turbo-Compressor in Automotive Engines. RUSSIAN, per, Za Rulem, No 1, 1961, pp 15-16.

*ACSI J-1365
ID 2204059966

The Second Breathing of Engines. The YAM-3 Turbocompressor, by V. Rakhmanov.

RUSSIAN, per, Za Rulem, No 7, 1965, pp 12-13.

*ACSI J-1387
ID 2204060966

Gas Turbine Ejector, by P. A. Kogan and L. Ya. Elinov, et al.

RUSSIAN, Patent No 166,246, 19 Nov 1963.

*FTB-IT-67-14

Some Results Related to Space Propulsion, by J. Suragus.

FRENCH, rpt, Paper Presented at the IJER Symposium on Electric Space Propulsion, 24 Feb 1966.

NASA TT F-10,347

Investigation of Compressed Gas Dispersion in Relation to its Applicability in Gas Turbine Engines, by Heinz Gehrig.

GERMAN, rpt. 102 pp.
*NASA-TT-F-10,716

Base Pressure Studies on Plane Gas Jets of Different Temperatures and Velocity, by K. D. Emmenthal.

GERMAN, rpt, Deut Forschungsanstalt Luft-Und Raumfahrt, DFL-Ber 65-55,

23 November 1965.
NASA TT F-10,452

Solid-Fuel Propulsion, by Waldemar Wolff, 73 pp.

GERMAN, rpt, Einfuehrung in die Ballistik: Raketen und Raketenballistik, Deutscher Militaerverlag, 1964,

pp 77-135. P10009566-V
FTD-TT-65-852

Preliminary Report on the Combustion Engine Group Exhibit, Hannover Fair, 30 April - 8 May 1966; Part I - Internal Combustion Engines.

GERMAN, per, MTZ Motortechnische Zeitschrift, No 4, April 1966, pp 160-172.

*ACSI J-1452
ID 2204063566

Internal Combustion Engines at the Hanover Fair 1966, by O. Klusener.

GERMAN, per, MTZ Motortechnische Zeitschrift, No 8, 1966, pp 305-320.

*ACSI J-1429
ID 2204062566

Dynamics of Rarefied Gases - A Discussion of Typical Problems With an Example of Freely Expanding Gas Jets, by K. Bier.

GERMAN, per, Verhandl. des Dritten Intern Vak Kong. Vol 1, 28 Jun-2 Jul, 1965, pp 5-16.

*AEC

Solid Rocket Fuels, Krzysztof Krowicki, Michal Syczewski.

POLISH, bk, Stale Paliwa Rakietowe, 1964, 299 pp.

*FTD-IT-66-730

Transportation and Storage of fuel in Pliable Containers.

SERBO-CROATIAN, per, Vojnotehnicki Glasnik, No 7, July 1966, pp 578-581.

ACSI J-0972
ID 2204051766

Scientific
Space Technology

Aviation and Cosmonautics.
RUSSIAN, per, Aviatsiya i Kosmonavtika, No 6,
1966, pp 1-96.
*FTD-HT-66-687

Investigation of the Flows of Solar Plasma
on Interplanetary Station Zond-2, by
V. V. Bezrukih, K. I. Gringauz, 8 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXIII,
No 4, 1965, pp 873-876. TP6000260
FTD-TT-65-1946

Motion of an Artificial Satellite
About Its Center of Mass, by
V. V. Beletskiy.
RUSSIAN, rpt, Dvizhenie Iskusstvennogo
Sputnika Otnositel no Tsentra Mass,
1965.
NASA TT F-429

Physiological Methods in Astronautics,
by R. M. Bayevskiy, 303 pp.
RUSSIAN, bk, Fiziologicheskiye Metody
v Kosmonavtike, 1965, pp 1-299. P100090066-V
FTD-MT-66-42

Selection of a Rational Diagram for a
Cooling System in Space, by O. N. Favorovskiy. 13p.
RUSSIAN, per, Izvestiya Akad Nauk SSSR Energet-
ika i Transport, No 1, 1966, pp 143-150.
P 100085966
FTD-MT-66-30

On Twilight Investigations of Planetary
Atmospheres From Space Ships, by
G. V. Rozenberg.
RUSSIAN, per, Iz Ak Nauk SSSR, Fizika
Atmosfery i Okeana, Vol I, No 4, 1965,
pp 377-385. P100081566
FTD-MT-65-400

Development of Soviet Space Port in Zvezdograd
Traced, by M. Rebrov, 8 pp.
RUSSIAN, np, Krasnaya Zvezda, 20 Oct 1966,
pp. 3-4.
JPRS 38688

Man in a Spaceship, by A. Lebedinskiy,
S. Levinskiy, et al. 11 pp.
RUSSIAN, nps, Meditsinskaya Gazeta,
September 18, 1964, p 3. P100073666
FTD TT-65-1591

Scientific
Space Technology (Contd)

Guaranteeing Radiation Safety During
the Voskhod and Voskhod-2 Flights,
by Yu. M. Volynkin, et al.
RUSSIAN, rpt, Paper Presented at the
17th International Astronautical Congress
held in Madrid, 9-15 October 1966.
NASA TT F-10,409

Certain Problems Resulting From Effects
of Acceleration During Space Flight,
by A. R. Kotovskaya.
RUSSIAN, rpt, Paper Presented at the
17th International Astronautical Congress
held in Madrid, 9-15 October 1966.
NASA TT F-10,412

Bibliography on Bioastronautics, by L. I.
Boreva and E. M. Panoya, 106 pp.
RUSSIAN, bklet, Ukazatel' Literatury, Aviakos-
micheskaya Meditsina, Bioastronautika, 1966,
pp. 3-107.
JPRS 38661

The Effect of the Weight Factors on the
Optimum Motion of the Variable-Mass
Body With the Limited Velocity Jet,
by G. L. Grodzovskiy.
RUSSIAN, rpt, Vliyaniye Vesovykh
Faktorov n a Parametry Optimal'nogo
Dvizhniya Tela Peremennoy Massy s Organichnoy
Skorost'yu Istecheniya Strui, 1966, 22 p.
NASA TT F-10,439

Extraterrestrial Civilizations, by V. A. Ambartsumyan,
et al,
RUSSIAN, bk, Vnesemnyye Tsivilizatsiy, 1965, 151 pp.
*CFSTI TT67-51373
*NASA TT F-438

Launching of Guided Rockets, by
M. V. Patrikeytsev, 83 pp.
RUSSIAN, bk, Pusk Upravlyayemykh Raket,
1963, pp 1-83. P100093166
FTD-MT-64-528

Morava/Stol?, by J. F. Sara.
CZECH, per, Letectvi Kosmonautika, No 10,
1966, pp 6/366-7/367.
CSI J-1317
ID 2204058366

Aquitaine, A Radar for Ballistic Trajectory
and Space Missile Pursuit. 11p
FRENCH, rpt, Compagnie Francaise Thomson-
Houston, 1965, 4p. P 100076666
FTD-TT-65-1984

Scientific
Space Technology (Contd)

Biochemical Effects of Static Electricity during Mr. Gordon's Space Walk, by Stefan Mainar, GERMAN, rpt, Biochemische Wirkungen der Statischen Elektrizitat a Innerhalb des Wiltraum Pausler gaurys Herr Gordon's, 1966.
*NASA TT-F-10,725

Safety Equipment for Man During High Altitude and Space Flight, by J. Lipski.
POLISH, bk, Urządzenia Zabezpieczające Loty Wysokosiłowe i Kosmiczne Człowieka, 1965, pp 1-195.
*FTD-HT-66-696

Miscellaneous

New Members of the USSR Academy of Sciences, 8 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Ser. Biol., No 5, Sept 1966, pp. 771-775.
JPRS 39160

Seminars of Soviet Academy of Sciences Discuss Latest Concepts in Philosophy and Science, by B. F. Semkov, 7 pp.
RUSSIAN, per, Voprosy Filosofii, No 9, 1966, pp. 130-133.
JPRS 38829

INFORMATION RECEIVED DURING JANUARY

ON COVER-TO-COVER TRANSLATIONS

Acta Physiologica Polonica, Vol XVI, No 5, 1965
CPSTI TT 65-50308/5

Acta Polonicae Pharmaceutica, Vol XXIII, No 2,
1966
CPSTI TT 66-57004/2

Acta Polonicae Pharmaceutica, Vol XXIII, No 3,
1966.
CPSTI TT 66-57004/3.

Arhiv Za Poljoprivredene Nauke, Vol XVIII,
No 63, 1965.
CPSTI TT 65-50404/5

Avtomatika i Telemekhanika, Vol XXVII, No 4,
April 1966.
Instrument Society of America

Avtomatika i Telemekhanika, Vol XXVII, No 5,
May 1966.
Instrument Society of America.

Doklady Akademii Nauk SSSR Earth Sciences,
Vol CLXVIII, No's 1-6, 1966.
Amer Geolo Inst.

Doklady Akademii Nauk SSSR Mathematics Section,
VOL CLXIX, No's 1-6, 1966
Amer Mathe Soc.
Vol VII, No 4, 1966 July-Aug

Doklady Akademii Nauk USSR Physics Section,
Vol CLXVIII, No's 4-6, June 1966.
Amer Inst of Physics
Vol XI, No 6, Dec 1966.

Doklady Akademii Nauk USSR Physics Section,
Vol CLXIX, No's 1-3, July 1966
Amer Inst of Physics
Vol XI, No 7, Jan 1967.

Elektrosvyas, No VI, June 1966
IEEE

Fizika Tverdogo Tela, Vol VIII, No 7, Jan 1967
Amer Inst of Physics

Genetika, No 11, 1966.
JPRS 39,472

Gigienna i Sanitariya, Vol XXXI, No's 1-3, 1966.
CPSTI. TT 66-51160/1-3

Gigiyena Truda i Professional'nyye
Zabolevaniya, Vol X, No 8, 1966
JPRS 38,927.

Izmeritel'naya Tekhnika, No 3, March 1966.
CB

Izmeritel'naya Tekhnika, No 4, April 1966
Instrument Society of America

Izvestiya Akademii Nauk SSSR, Seriya
Fizicheskaya, Vol XXIX, No 12, 1965
CTT

Izvestiya Akademii Nauk SSSR Seriya Khimicheskaya,
No 2, Feb 1966.
CB.

Izvestiya Akademii Nauk SSSR Seriya
Khimicheskaya, No 3, March 1966.
CB.

Izvestiya VUZ Radiofizika, Vol VIII, No 5,
Sept-Oct 1965.
The Faraday Press, Inc.

Izvestiya Vysshikh Ucheb Zaved Avantsionnaya
Tekhnika, No 3, 1964.
FTD-MT-64-363.

Kibernetika, No 5, 1966.
JPRS 39,539.

Kinetika i Katalis, Vol VII, No 1, 1966
CB

Klinicheskaya Meditsina, Vol XLIV, No 10, 1966
JPRS 39,518

Klinicheskaya Meditsina, Vol XLIV, No 11, 1966
JPRS 39,519

Kristallografiya, Vol XI, No 4, 1966.
Amer Inst of Physics
Vol XI, No 4, Jan-Feb 1967

Lijecnicki Vjesnik, Vol LXXXVII, No 9, 1965
CFSTI TT 65-50407/9

Lijecnicki Vjesnik, Vol LXXXVII, No 10, 1965
CFSTI TT 65-50407/10

Lijecnicki Vjesnik, Vol LXXXVII, No 12, 1965
CFSTI TT 65-50407/12

Meteorologiya i Gidrologiya, No 10, 1966.
JPRS 39,061.

Nauchno-Tekhnicheskaya Informatsiya, No 7,
1966.
JPRS 39,283.

Nauchno-Tekhnicheskaya Informatsiya, No 9,
1966
JPRS 38,966.

Optika i Spektroskopiya, Vol XXI, No 3, Sept.
1966.
Optical Society of America, Inc.

Polskie Archiwum Medycyny Wewnestsnej, Vol V,
No 4, 1966 .
CFSTI TT 66-57007/4.

Radiobiologiya, Vol V, No 6, 1965
ABC-tr-6603 - F911007667-V.

Radiobiologiya, Vol VI, No 2, 1966
ABC-tr-6771 - F11007767-V.

Radiotekhnika, No VI, June 1966
IEEE

Radiotekhnika i Elektronika, No 6, June 1966.
IEEE.

Radiotekhnika i Elektronika, No 7, 1966
IEEE.

Sopstenja Institut Za Vodoprivredu Jaroslav
Cerni, Vol VIII, No 36, 1966.
OTS TT 66-59002/1.

Staub, Vol XXV, No 9, 1965.
CFSTI.

Staub, Vol XXVI, No 5, 1966.
CFSTI.

Staub, Vol XXVI, No 6, 1966.
CFSTI.

Staklo i Keramika, Vol XXII, No's 11-12,
Nov-Dec 1965.
CB.

Ti-li Hsueh-pao, No 1, March 1966
JPRS 39,439.

Tsvetnye Metally, Vol XXXVIII, No 8, 1965
Primary Sources
Vol VI, NO 8, 1965

Tyl i Snabzheniye Sovetskikh Vooruzhennykh Sil,
No 10, 1966.
ACSI J-1171.

Tyl i Snabzheniye Sovetskikh Vooruzhennykh,
No 12, 1966.
*ACSI. J-1563.

Vestnik Akademii Nauk SSSR, Vol XXXVI, No 9,
1966.
JPRS 39,409.

Vestnik Akademii Nauk SSSR, Vol XXXVI, No 10, 1966
JPRS

Vestnik Svyazi, No 9, 1966.
JPRS 39,327

Vestnik Svyazi, No 10, 1966.
JPRS 39,452.

Voyenno Meditsinskiy Zhurnal, No 1, 1966.
ACSI I-9845.

Voyenno Meditsinskiy Zhurnal, No 10, 1966
ACSI J -1169.

Voyenno Meditsinskiy Zhurnal , No 11, 1966
*ACSI J-1446

Voyenno Meditsinskiy Zhurnal, No 12, 1966.
*ACSI J-1642.

Voyenny Vestnik, No 10, 1966.
ACSI J-1067.

Voyenny Vestnik, No 12, 1966.
*ACSI J-1562.

Zavodskaya Laboratoriya, Vol XXXII, No 5,
May 1966
Instrument Society of America

Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki, Vol I, No 6, June 1966.
Amer Inst of Physics
Vol XXIII, No 6, Dec 1966

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Automation and Remote Control

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ERRATA

The following corrections are translated from pages 254 and 750 of Tom 169.

- I. A. Ibragimov, *The rate of convergence to the normal distribution*, Vol. 6 (1965), 580-582 (Russian pages Tom 161, 1267-1269); in Theorems 1-4 a supplementary condition was omitted:

$$\int_{-z}^z x^{\delta+2} dF(x) = O(1), \quad z \rightarrow \infty,$$

if δ is an odd integer.

- V. M. Millionščikov, *Recurrent or nearly periodic limit trajectories of nonautonomous systems of differential equations*, Vol. 6 (1965), 367-368 (Russian pages Tom 161, 43-44), Definition 3 on p. 368 should read as follows:

Definition 3. A solution $x_0(t)$ ($t \geq t_0$) will be called *completely stable in the sense of Ljapunov* if for each neighborhood of the origin $U \subset L$ and each T there exist a neighborhood of the origin $V \subset L$ and a number \bar{t} such that if $x(t') - x(t'') \in V$, and $t' \geq \bar{t}$ and $t'' \geq \bar{t}$, then $x(t'+t) - x(t''+t) \in U$ for all $t > T$.

- V. M. Millionščikov, *The asymptotic behavior of solutions of linear systems with small perturbations*,

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No 11, 1966

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LABOR HYGIENE AND OCCUPATIONAL DISEASES

Vol 10, No 8, 1966

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Measurement Techniques

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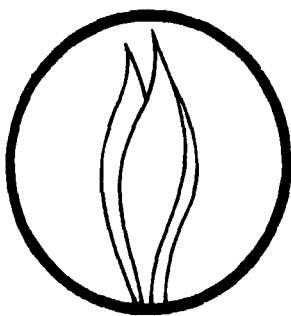
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METEOROLOGY AND HYDROLOGY

No.10, 1966

-USSR-

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(No. 7, 1966)

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NO 1, MARCH 1966

- COMMUNIST CHINA -

[Following is a cover-to-cover translation of the Chinese-language magazine Ti-li Hsueh-pao (Acta Geographica Sinica), Vol 32, No 1, Peiping, 16 March 1966. Complete bibliographic information accompanies each article.

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Russian Abbreviations in Text

AN SSSR.....	Academy of Sciences, USSR.
CC CPSU.....	Central Committee, Communist Party, Soviet Union.
Gintsvetmet.....	State Institute of Non-Ferrous Metals.
Giprotsvetmet.....	State Institute for the Design and Planning of Non-Ferrous Metals Industry Establishments.
Giredmet.....	State Rare Metals Scientific Research Institute.
Gosplan.....	State Planning Committee of the Council of Ministers of the USSR.
GOST.....	All-Union Standard.
KazSSR.....	Kazakh SSR.
Mashgiz.....	State Scientific and Technical Publishing House of Literature on Machinery.
Metallurgizdat.....	State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy.
Sovnarhoz.....	Council of the National Economy.
TsIK Tsh.....	Central Office for Information on Non-Ferrous Metals.
UKSTsk.....	Ust'-Kamenogorsk Lead-Zinc Combine.
UzbSSR.....	Uzbek SSR.
VAMI.....	All-Union Aluminum and Magnesium Institute.
VUZ.....	Institute of Higher Education.

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Vestnik OF THE USSR ACADEMY OF SCIENCES

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HERALD OF COMMUNICATIONS

No 9, 1966

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Note: Half-tone illustrations appear at end of pertinent article.

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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 cursive script 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)

ENCLOSURE I



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
AD0482732	78-03109A	56	1	5	100	Consolidated Translation Survey For April 1966	4/1/1966	203	Approved For Release	3/25/2004
AD0485874	78-03109A	56	1	6	101	Consolidated Translation Survey For May 1966	5/1/1966	250	Approved For Release	3/25/2004
AD0486759	78-03109A	56	1	7	102	Consolidated Translation Survey For June 1966	6/1/1966	265	Approved For Release	3/25/2004
AD0488131	78-03109A	56	1	8	103	Consolidated Translation Survey For July 1966	7/1/1966	178	Approved For Release	3/25/2004
AD0800235	78-03109A	57	1	1	104	Consolidated Translation Survey For August 1966	8/1/1966	264	Approved For Release	3/25/2004
AD0801439	78-03109A	57	1	2	105	Consolidated Translation Survey For September 1966	9/1/1966	211	Approved For Release	3/25/2004
AD0803607	78-03109A	57	1	3	106	Consolidated Translation Survey For October 1966	10/1/1966	247	Approved For Release	3/25/2004
AD0804982	78-03109A	57	1	4	107	Consolidated Translation Survey For November 1966	11/1/1966	203	Approved For Release	3/25/2004
AD0806465	78-03109A	57	1	5	108	Consolidated Translation Survey For December 1966	12/1/1966	234	Approved For Release	3/25/2004
AD0808740	78-03109A	57	1	6	109	Consolidated Translation Survey For January 1967	1/1/1967	277	Approved For Release	3/25/2004
AD0811456	78-03109A	57	1	7	110	Consolidated Translation Survey For February 1967	2/1/1967	234	Approved For Release	3/25/2004
AD0813563	78-03109A	57	1	8	111	Consolidated Translation Survey For March 1967	3/1/1967	342	Approved For Release	3/25/2004
AD0814969	78-03109A	57	1	9	112	Consolidated Translation Survey For April 1967	4/1/1967	268	Approved For Release	3/25/2004
AD0816126	78-03109A	58	1	1	113	Consolidated Translation Survey Through 31 May 1967	5/31/1967	210	Approved For Release	3/25/2004
AD0818406	78-03109A	58	1	2	114	Consolidated Translation Survey Through 30 June 1967	6/30/1967	271	Approved For Release	3/25/2004
AD0834366	78-03109A	58	1	3	115	Consolidated Translation Survey Through 31 July 1967	7/31/1967	318	Approved For Release	3/25/2004
AD0820905	78-03109A	58	1	4	116	Consolidated Translation Survey Through 31 August 1967	8/31/1967	308	Approved For Release	3/25/2004
AD0822924	78-03109A	58	1	5	117	Consolidated Translation Survey Through 30 September 1967	9/30/1967	330	Approved For Release	3/25/2004
AD0824515	78-03109A	58	1	6	118	Consolidated Translation Survey Through 31 October 1967	10/31/1967	200	Approved For Release	3/25/2004
AD0824581	78-03109A	58	1	7	119	Consolidated Translation Survey Through 30 November 1967	11/30/1967	194	Approved For Release	3/25/2004
AD0832430	78-03109A	58	1	8	120	Consolidated Translation Survey Through 31 December 1967	12/31/1967	100	Approved For Release	3/25/2004
AD0828154	78-03109A	58	1	9	121	Consolidated Translation Survey Through 31 January 1968	1/31/1968	221	Approved For Release	3/25/2004
AD0829939	78-03109A	59	1	1	122	Consolidated Translation Survey Through 29 February 1968	2/29/1968	246	Approved For Release	3/25/2004