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CONSOLIDATED TRANSLATION SURVEY

Number 103

For July 1966

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CONSOLIDATED TRANSLATION SURVEY

FOR JULY 1966

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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.

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(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AERE Harwell Lib

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

AGI

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

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington, D.C. 20005

AIP

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

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL - Applied Physics Laboratory (see Navy)

ATD - Aerospace Technology Division (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

BuShips - Bureau of Ships (see Navy)

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

Dept of Interior

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

DIA

Defense Intelligence Agency
Washington, D.C. 20301

DTMB - David Taylor Model Basin (see Navy)

FP

Faraday Press Publishers
15 Park Row
New York 38, New York

FSTC

Defense Documentation Center
Cameron Station
Alexandria, Virginia

FTD - Foreign Technology Division (see AF)

HB

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

IEEE

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

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

MACM

Macmillan Company
60 Fifth Avenue
New York, New York 10011

Maritime Admin

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

Min of Aviat

Ministry of Aviation (Til) (b)
Leysdown Road
Motttingham
London, S.E. 9, England

NASA

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

Navy

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

NLL

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

NRL - Naval Research Laboratories (see Navy)

NSTIC

Naval Sci and Tech Intell Ctr

Department of the Navy
CNO/ONI
922 STIC
Pentagon

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

OTS - (see CFSTI)

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Department of Commerce, Patent Office
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Washington, D.C.

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

RAPRA

Rubber and Plastics Research Association of
Great Britain
Shawbur
Shrewsbury, England

RSIC - (see DDC/RSIC)

RTS - (see OTS)

SA

Seizaburo Aoki
1069 Minami Nakadori 2-chome
Fujisawa, Japan

SLAC - Stanford Linear Accelerator Center - (see AEC)

UCRL

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

USSR

Economic

New Construction Projects of the Five-Year Plan, 5 pp.
RUSSIAN, per, Agitator, No 8, Apr 1966,
pp. 31-35.
JPRS 36069

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JPRS 36205

Transfer Short-Haul Freight from Rail to Motor Transport, by R. Stolov, 7 pp.
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JPRS 36069

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JPRS 35965

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GERMAN, per, Nachrichtentechnik, Vol 16, No 2, Feb 1966, pp. 46-49.
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JPRS 36259

Good Management at Leninogorsk Polymetallic Combine Shows Results, by I. Vasil'chev, 8 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 3, Mar 1966, pp. 74-77.
JPRS 36259

Organization of Construction in the Oil Industry, by G. D. Sokolov.
RUSSIAN, bk, Organizatsiya Stroitel'stva Neftnykh Promyslov, 1965, 192 pp.
NLL R 39959

Adjustment of the Norm of Profitability, by Ye. Liberman, 11 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 3, Mar 1966, pp. 28-36.
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Problems and Reserves in Urban Construction, by M. Dudin, 10 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 3, 1966, pp. 46-53.
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Water As a Factor in the Location of the Chemical Industry, by N. Alisov, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 5, May 1966, pp. 88-92.
JPRS 36275

The Progress of Soviet Economy - On the Fulfilment of the State Plan for the Development of the National Economy of the USSR in 1965 - The USSR Central Statistical Board's Report.
RUSSIAN, np, Pravda, (34) Feb. 3 1966, pp 1-2.
N.L.L. Shelf mark: 0131.3

Distribution of Productive Forces in the USSR, by N. Nekrasov, 5 pp.
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Powder Metallurgy Production in Armenia, by N. Manukyan, 5 pp.
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A Program for Track Maintenance on the Soviet Railroads, by I. V. Rusakov, and L. P. Stryukov, 7 pp.
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State of Grain Production in Kazakhstan, 7 pp.
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JPRS 36116

Economic Reform in the USSR and the Nonvalidity of Its Criticisms, by B. Gel'bras, 10 pp.
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Developing Scientific-Theoretical Principles for the Unification and Standardization of Unit-Head Machine Tool Building, by G. A. Kiselev, Yu. A. Vengorovskiy and V. Yu. Gulenkov, 13 pp.
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RUSSIAN, per, Stanki i Instrument, No 3, 1966, pp. 3-4.
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Types of Classification Stations and Conditions Governing Their Use,
RUSSIAN, rpt. Stantsii i Uzy.
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Plans for Transport Construction during the Five-Year Plan, by Ye. Kozhevnikov, 8 pp.
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JPRS 36225

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JPRS 36038

Program of Technical Progress, 9 pp.
RUSSIAN, per, Tekhnika v sel'skom khozyaystve, No 3, 1966, pp. 1-5.
JPRS 35893

The Application of Synthetic Diamonds in the Lugansk Kiesel-Locomotive-Building Plant, by Yu. M. Yepikhia, et al, 8 pp.
RUSSIAN, per, Tekhnologiya i Organizatsiya Proizvodstva, No 2, Mar-Apr 1966, pp. 50-54.
JPRS 36016

A New System of Controlling Production.
RUSSIAN, per, Tekhnicheskaya Promyshlennost, No 12, 1965, pp. 1-4.
NLL Shelfmark: 0177 Holding 1942-

Analysis of the Weight Distribution of Axles of Wheeled Tractor, by D. I. Mel'nikov, 5 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 3, Mar 1966, pp. 14-15.
JPRS 36019

Scientific Basis Required for Development of Agricultural Implement Building, by V. I. Lozovoy, 8 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 3, Mar 1966, pp. 18-20.
JPRS 36019

USSR
Economic (Contd)

Plan for Improving the Instrument-Making Industry, by V. I. Mishchenko and L. M. Mampel, 6 pp.
RUSSIAN, per, Traktory i Sel-mashiny, NO 3, Mar 1966, pp. 42, 43, 44.
JPRS 36019

The Program for Transportation Builders in the New Five-Year Plan, 6 pp.
RUSSIAN, per, Transportnoye stroitel'stvo, No 4, Apr 1966, pp. 1-3.
JPRS 35937

Optimal Management of the National Economy and Problems of Economic Cybernetics, by V. S. Dadayan, 9 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 1, Jan-Feb 1966, pp. 52-59.
JPRS 35990

State Statistics under the New Conditions, by V. Starovskiy, 12 pp.
RUSSIAN, per, Vestnik statistiki, No 1, 1966, pp. 3-13.
JPRS 36121

The USSR -- A Major Seapower, 11 pp.
RUSSIAN, np, Vodnyy transport, 26 Apr 1966, p. 2.
JPRS 35937

The Present Stage of Organization and Planning of Material-Technical Supply, by V. Ivanov, 7 pp.
RUSSIAN, np, Voprosy Ekonomiki, 1966, No 2, pp. 61-66.
JPRS 35902

The Unity of State Technical Policy, by G. Anisimov, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, Mar 1966, pp. 11-23.
JPRS 36078

The Contemporary Stage of the Construction of Socialism in European Countries of the People's Democracy, by N. Stolpov, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, Mar 1966, pp. 75-83.
JPRS 36070

Foreign Economic Problems of the Non-Capitalist Development of Liberated Countries, by L. Levin, 10 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, Mar 1966, pp. 84-91.
JPRS 36070

USSR
Economic (Contd)

The Economic Effectiveness of Irrigated Agriculture in European Member-Countries of the Council of Economic Mutual Assistance, by Yu. Shintyapin, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 3, Mar 1966, pp. 114-118.
JPRS 36070

Methods of Protecting Food, Water, Livestock, Forage and Water Sources, by A. Mil'skiy, 9 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, Apr 1966, pp. 24-26.
JPRS 36044

Information about a Meeting of the Board of the Ministry of Agriculture RSFSR about Resources in Northern Regions of the Republic, by S. Bykov, 6 pp.
RUSSIAN, per, Zakupki Sel'skokhozyaystvennykh Produktov, No 4, 1966, pp. 19-21.
JPRS 36014

New Regional Foundries in the USSR, by V. S. Belov, S. I. Chetvarukhin, V. S. Knorre and G. M. Sakharov, 11 pp.
POLISH, per, Przeglad Odlewnictwa, No 4, Apr 1966, pp. 116-121.
JPRS 36098

Political

Soviet Press Propaganda Concerning Introduction of Advanced Experience, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No 18, May 1966, p. 9.
JPRS 36106

Commentators Discuss Shaky US Pact System, by Vladimir Kudryavtsev, 9 pp.
RUSSIAN, np, Izvestiya, 24 Apr 1966.
JPRS 35985

USA -- Stronghold of Reaction, by N. Yakovlev, 5 pp.
RUSSIAN, np, Izvestiya, 27 Apr 1966, p. 3.
JPRS 35985

African Political Parties Described in the Soviet Press, by V. Midtsev, 5 pp.
RUSSIAN, np, Izvestiya, 17 May 1966, p. 5.
JPRS 36300

USSR
Political (Contd)

Amendments to the Bylaws of the CPSU and Intra-Party Life, 11 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 3-11.
JPRS 36051

Leninism Is the Scientific Basis of Soviet Foreign Policy, by N. Inozemtsev, 15 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 12-25.
JPRS 36051

Reclamation Is a Major Reserve of the Non-chernozem Zone, by N. Kalmyk, 10 pp.
RUSSIAN, per, Kommunist, 10 May 1966, pp. 37-45.
JPRS 36051

The Height of the Racket, by M. Vistinetskiy, 11 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 113-121.
JPRS 36051

The Foreign Policy Principles of the CPSU, by S. Titarenko, 7 pp.
RUSSIAN, np, Krasnaya Zvezda, 28 Apr 1966, pp. 2-3.
JPRS 36057

The Policy of the CPSU in a Contemporary World, by T. Vladimirov, 18 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye Otnosheniya, No 5, 1966, pp. 3-14.
JPRS 36119

Soviet View of the Current Political Situation in Syria, by I. Belyayev and Ye. Primakov, 5 pp.
RUSSIAN, np, Pravda, 2 June 1966, p. 3.
JPRS 36085

The Social Content and Political Form in the Non-Capitalist Development of Young States, by G. B. Starushenko, 11 pp.
RUSSIAN, per, Sovetskoye gosudarstvo i provo, No 4, Apr 1966, pp. 103-112.
JPRS 36057

Fulfillment of the Decisions of the 23rd Party Congress, 6 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, Apr 1966, pp. 5-6.
JPRS 36044

USSR
Political (Contd)

Moscow Seen Preparing Changing of Guard in Europe, by David Rousset, 35 pp.
FRENCH, np, Le Figaro, 8 Jun 1966, pp. 1 & 32.
JPRS 36230

Octobre: CPSU Leaders Collaborate Increasingly with Imperialism, 5 pp.
FRENCH, per, Octobre, No I, 8 Apr 1966, pp. 1-6.
JPRS 36119

Interpretation by Ukrainian Emigre Organization "Prologue" of Arrests of Two Ukrainian Writers I. Svitlychnyy and I. Dzyuba, 8 pp.
UKRAINIAN, per, Suchasnist, No 5, May 1966, pp. 119-124.
JPRS 36039

Military

Searching for and Attacking Slow-Moving Air Targets, by A. Pushkin, 8 pp.
RUSSIAN, per, Aviatsiya i Kosmonavtika, No 5, 1966, pp. 41-45.
JPRS 36065

Studies in Engineering Support of Combined-Arms Combat, by V. Ya. Plyaskin, I. F. Lysukhin, and V. A. Ruvinskiy, 40 pp.
RUSSIAN, bk, Inzhenernoye Obespecheniye Obshchevoyskovogo Boya, pp. 3-6, 345-370, and 371-372.
JPRS 36040

Flight Testing of Aircraft, by M. G. Kotik, et al.
RUSSIAN, rpt, Letnyye Ispytaniya Samoletov, 1965, 330 pp.
*NACA TR A-442

Interview with Col Gen Zyryanov, Chief of the Soviet Border Forces, by E. Tserkover and A. Sfliyenkov, 5 pp.
RUSSIAN, np, Nedelya, No 22, 22-28 May 1966, p. 6.
JPRS 36086

Methods of Protection against Nuclear Chemical, and Bacteriological Weapons, by N. S. Pokrovskiy, 103 pp.
RUSSIAN, bk, Sposoby Zashchity ot Yadernogo, Khimicheskogo i Bakteriologicheskogo Oruzhiya, 1965, pp. 1-127.
JPRS 35870

USSR
Military (Contd)

Firing With Rangefinder, by I. T. Kuznetsov,
47 pp.
RUSSIAN, rpt, Strel'ba s Dal'nomerom,
1962.
ACSI I-9946
ID 2204008766

Millions of Operations Per Second, by N. Zubkov.
8 pp.
RUSSIAN, per, Voyennyye Znaniya, 1965, pp 34-35.
9700957
FTD-HT-65-188

Logistic Support of Civil Defense Units in
the Field, by V. Ol'shevskiy, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, Apr
1966, p. 19.
JPRS 36044

Civil Defense Plan in a Kolkhoz, by M.
Shutov, 6 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, Apr
1966, pp. 20-21.
JPRS 36044

Organization of Radiation Monitoring Posts,
by V. Medvedev, 6 pp.
RUSSIAN, per, Voyennyye Znaniya, No 4, Apr
1966, pp. 27-28.
JPRS 36044

Collection of Problems on the Principles
of Firing Rifles, Tank, Artillery,
and Rocket Weapons, by A. A. Lovi,
S. S. Mutsynov, N. A. Shevchenko, 139 pp.
RUSSIAN, rpt, Zadachnik po Osnovam Strelby iz
Strelkovogo, Tankovogo, Artilleriyskogo i
Raketskogo Oruzhiya 1964, pp 3-184.
ACSI I-9797
ID 2204007066

USSR
Geographic

Chronicles,
RUSSIAN, per, Iz Vsesoyuznogo Geograficheskogo
Obshchestva, Tom 98, Vyp 1, Jan-Feb 1966,
pp 92-99.
*ACSI J-0104
ID 2204030466

Moscow, a Tourist's Guide 2d. ed.
by V. Chernov, V. Mazov.
RUSSIAN, bk, Moskva, Spravochnik
diya Turista, 1963.
Dept of Inter No
320.46edc M851m

On Geographical-Cartographical and Geological
Operations in Area Selection for New
Industrial Construction, by N. Ya. Kondrat'yeva.
17 pp.
RUSSIAN, per, Vestnik Leningradskogo
Universiteta, No 24, 1964, pp 99-105.
ACSI I-9347A
ID 2204014866

Review of Cartographic Projection
Classifications, by A. A. Pavlov.
17 pp.
RUSSIAN, per, Vestnik Leningradskogo
Universiteta, No 24, 1964, pp 145-153.
ACSI I-9347B
ID 2204014866

The question of the Formation of the Zooplank-
ton of the Uchinskoe Reservoir of the Moscow
Canal, by E. V. Borutskiy.
RUSSIAN, per, Zool Zhur, Vol XXVIII, No 1, 1949,
pp 71-78.
NLL RTS-2995

USSR
Sociological

Advantages and Peculiarities of the Five-Day Work Week, by Ye. Kapustin, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 18, May 1966, pp. 34-35.
JPRS 36198

The Foreman, by I. Strogov, 11 pp.
RUSSIAN, per, Kommunist, 10 May 1966, pp. 46-53.
JPRS 36051

A Broad Anti-Monopolistic Front, by V. Sergeyev, 13 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 85-95.
JPRS 36051

The Country Workers against the Monopolies, by S. Nadel', 9 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 105-112.
JPRS 36051

A New Book on the Workers Class: Its Virtues and Shortcomings, by G. Pasternak, 5 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 125-128.
JPRS 36051

Measures for Eliminating Shortcomings in Payment of Wages to Kolkhoz Members, by I. Asrorov, Z. Abdullayev and E. Sharipov, 5 pp.
RUSSIAN, np, Kommunist Tadzhikistana, 4 May 1966, p. 3.
JPRS 35959

Product Quality As a New Index of Labor Productivity, by L. Blyakhman, 6 pp.
RUSSIAN, np, Leningradskaya Pravda, 25 Mar 1966.
JPRS 36148

The Efficiency of Scientific Work, by P. Kapitsa, 5 pp.
RUSSIAN, per, Literaturnaya gazeta, 5 Mar 1966, p. 2.
JPRS 35899

For a Revised Evaluation of Labor of Miners and Metallurgists, by I. Nikiforov, 9 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 3, 1966, pp. 43-47.
JPRS 36259

USSR
Sociological (Contd)

Ritualism in Islam and Its Social Essence, by A. Alimukhamedov, 9 pp.
RUSSIAN, per, Obshchestvennyye nauki v Uzbekistane, No 3, 1966, pp. 16-21.
JPRS 36112

Computation of Temporary Incapacity Benefits for Agricultural Workers, by Yu. Grigor'yev, 9 pp.
RUSSIAN, per, Okhrana Truda i Sotsial'noye Strakhovaniye, No 4, Apr 1966, pp. 29-31.
JPRS 35959

Need for Increasing the Protection of Socialist Property, by K. Pavlishchev, 9 pp.
RUSSIAN, per, Sotsialisticheskaya Zakonnost', No 3, Mar 1966, pp. 3-8.
JPRS 36200

Eliminating Violations of Labor Legislation in Sovkhozes, by N. Vishnevetskaya, 6 pp.
RUSSIAN, per, Sotsialisticheskaya Zakonnost', No 3, Mar 1966, pp. 9-12.
JPRS 36200

New Demands for Labor Law, by K. Abzhanov, 5 pp.
RUSSIAN, per, Sotsialisticheskaya Zakonnost', No 3, Mar 1966, pp. 13-16.
JPRS 36200

Vital Problems of Labor Statistics under the New Conditions and the Tasks of Enterprises, by L. Volodarskiy, 10 pp.
RUSSIAN, per, Sotsialisticheskii Trud, No 3, 1966, pp. 43-49.
JPRS 36079

Materials and Research on the Ethnography and Anthropology of Asian Countries, by N. N. Cheboksarov, 11 pp.
RUSSIAN, per, Sovetskaya etnografiya, No 2, Mar-Apr 1966, pp. 50-58.
JPRS 35983

Profitable Investments in Public Education, by L. I. Tul'chinskiy, 14 pp.
RUSSIAN, per, Sovetskaya pedagogika, No 2, Feb 1966, pp. 72-80.
JPRS 35967

The Structure and Functions of Trade Unions, by I. Gudkov, 7 pp.
RUSSIAN, per, Sovetskiye Profsoyuzy, No 4, 1966, pp. 34-35.
JPRS 36079

USSR
Sociological (Contd)

Teaching Methods Used to Form Firm Atheistic Convictions in Soviet Students, 10 pp.
USSR, per, Sredneye Spetsial'noye Obrazovaniye, No 1, 1966, pp. 40-44.
JPRS 36058

Repressions against Literary Figures in the Ukraine, by Bohdan Kravtsiv, 10 pp.
UKRAINIAN, per, Suchasnist', No 5, May 1966, pp. 3-10.
JPRS 35975

An Important School of Management, by I. M. Vladychenko, 5 pp.
RUSSIAN, np, Trud, 27 Mar 1966, p. 1.
JPRS 35967

Discussion of the Tasks Facing Soviet Trade Unions, 10 pp.
RUSSIAN, np, Trud, 27 Apr 1966, pp. 2-3.
JPRS 36081

Decree Outlines Plans to Strengthen the Role of Trade Unions, 10 pp.
RUSSIAN, np, Trud, 29 Apr 1966, p. 2.
JPRS 36081

Deceptiveness in Grading of Students Scored, 6 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, 13 Jan 1966, pp. 1 & 3.
JPRS 35866

Pros and Cons Concerning Value of Differentiation in Educational Work, by V. Strezikozin, 5 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, 15 Jan 1966, pp. 2-3.
JPRS 35866

Compulsory General Secondary Education the Goal for 1970, by V. Zhamin, 5 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, 27 Jan 1966, p. 1.
JPRS 35866

Second Plenum of Central Committee of Trade Union of Workers of Education, Higher Schools, and Scientific Institutions, 5 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, 15 Feb 1966, pp. 2-3.
JPRS 35866

USSR
Sociological (Contd)

New Prospects in Higher Education, by V. P. Yelyutin, 8 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 1, Jan 1966, pp. 3-8.
JPRS 35894

Furthering Economic Studies in Agricultural Education, by N. F. Bugayev, 6 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 1, Jan 1966, pp. 9-12.
JPRS 35894

Improving Advanced Study Correspondence Programs in Agricultural Institutions, by A. I. Kornev, 6 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 1, Jan 1966, pp. 17-20.
JPRS 35894

Mathematical Training of Economists and Planning Engineers, by L. V. Kantorovich and A. G. Pinsker, 8 pp.
RUSSIAN, per, Vestnik Vysshey Shkoly, No 3, Mar 1966, pp. 22-27.
JPRS 36277

All-Union Scientific Conference on Problems of Formation of the Population and Use of Labor Resources in Regions of the Far North, by L. Sbytova, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 2, Feb 1966, pp. 150-153.
JPRS 35964

The Patrice Lumumba University of Friendship of Peoples, by V. L. Kerov, 11 pp.
RUSSIAN, per, Voprosy Istorii, No 1, 1966, pp. 164-170.
JPRS 35966

An Introduction to the Art of Translating Scientific and Technical Literature into English, by A. L. Pumpyskiy, 19 pp.
RUSSIAN, rpt, Vvedeniye v Praktiku Perevoda Nauchnoy i Tekhnicheskoy Literatury na angliyskiy yazyk Moscow, 1965, pp. 3-31; 289-293.
ACSI 1-9869
ID 2204008066

Eastern Europe

Economic

Democratic Centralism -- A Basic Principle for the Direction of the National Economy, by Hasan Banja, 5 pp.
ALBANIAN, np, Bashkimi, 5 May 1966, pp. 2-3.
JPRS 35905

Report to Writers Union Plenum on the Development and Problems of Prose, by Sterjo Spasse, 10 pp.
ALBANIAN, np, Drita, 24 Apr 1966, pp. 1,2.
JPRS 35905

Comment on 1966 Plan, 13 pp.
ALBANIAN, per, Ekonomia Popullore, No 2, Mar-Apr 1966, pp. 3-13.
JPRS 36071

Simplification and Improvement of Planning Methods in the National Economy, by Abdyl Backa, 16 pp.
ALBANIAN, per, Ekonomia Popullore, No 2, Mar-Apr 1966, pp. 14-27.
JPRS 36071

Democratic Centralism and Initiative in Planning the National Economy, by Priamo Bollano, 12 pp.
ALBANIAN, per, Ekonomia Popullore, No 2, Mar-Apr 1966, pp. 28-40.
JPRS 36071

Enterprises Urged to Heed Criticism Appearing in Press, 5 pp.
ALBANIAN, np, Zeri i Popullit, 23 Apr 1966, p. 2.
JPRS 35905

Plans for the Development of Foreign Trade During 1966, 6 pp.
ALBANIAN, np, Zeri i Popullit, 23 Apr 1966, p. 3.
JPRS 35905

Measures for Increasing Domestic Resources of Socialist Accumulation and Utilizing Them Properly, by Iljaz Fishta and Sabah Hilmia, 6 pp.
ALBANIAN, np, Zeri i Popullit, 13 May 1966, pp. 2-3.
JPRS 36235

Taxes as an Economic Lever Under Socialism, by Georgi Petrov,
BULGARIAN, bk, Danutsite Kato Ikonomicheski Lost Pri Sotsializma, Booklet No 7 of the Biblioteka "Problemi na Novata Sistem na Planirane i Rukovodstvo na Narodnoto Stopanstvo, 1966, pp 3-13.
*JPRS/ST-4296

Eastern Europe
Economic (Contd)

Organization and Functions of the Ministry of Architecture and Urbanization, 8 pp.
BULGARIAN, per, Durzhaven vestnik, No 41, 27 May 1966, pp. 1-3.
JPRS 36132

Financing and Crediting of Socialist Enterprises, by Dimitur Bazhdarov,
BULGARIAN, bk, Finansirane i Kreditirane na Sotsialisticheskite Predpriyatiya, Booklet No 4 of the Biblioteka "Problemi na Novata Sistem na Planirane i Rukovodstvo na Narodnoto Stopanstvo, 1966, pp 3-77.
*JPRS/DC-12487

The Navigable Canal between Varna and Devnya, by Marin Devedzhiev, 7 pp.
BULGARIAN, per, Geografiya, No 3, Apr 1966, pp. 1-4.
JPRS 35997

Changes in the System of Indicators and the System and Methods of Planning, by Grisha Filipov,
BULGARIAN, bk, Izmeneniya v Sistem na Pokazateli v Rada i Metodite na Planirane, Booklet No 1 of the Biblioteka "Problemi na Novata Sistem na Planirane i Rukovodstvo na Narodnoto Stopanstvo, 1966, pp 4-131.
*JPRS/NY-13341

Possibilities of Improving the Planning and Management of the Chemical Industry, by St. Gazenov, 7 pp.
BULGARIAN, per, Khimiya i Industriya, XXXVIII, No 1, 1966, pp. 1-3.
JPRS 36083

The Plan for New Successes in the Bulgarian Food Industry, by Atanas Dimitrov, 8 pp.
BULGARIAN, per, Khranitelna promishlenost, No 1, Jan 1966, pp. 1-4.
JPRS 36007

Development of Independence in Enterprises under the New System of Planning and Economic Management, by Yordan Iliev, 5 pp.
BULGARIAN, per, Khranitelna promishlenost, No 1, 1966, pp. 11-13.
JPRS 35860

A Suggestion to Improve the New System of Planning and Management, 6 pp.
BULGARIAN, per, Khranitelna promishlenost, No 1, Jan 1966, pp. 27-28.
JPRS 35860

Eastern Europe
Economic (Contd)

Economic Relations between Bulgaria and the Developing Countries, by Stefan Sharenkov, 11 pp.
BULGARIAN, per, Partien zhivot, No 5, Apr 1966, pp. 85-90.
JPRS 36088

Production Assets of the Industrial Enterprise under the New System of Planning and Management, by Georgi Krumov, 8 pp.
BULGARIAN, per, Politicheska prosveta, No 3, Mar 1966, pp. 29-35.
JPRS 36134

Production Relations and Contractual Relations in the National Economy, by Docent Boris Purvulov and Docent Vitali Tadzher, BULGARIAN, bk, Proizvodstveni Vruzki i Dogovorni Otnosheniya v Narodnoto Stopanstvo, Booklet No 6 of the Biblioteka "Problemi na Novata Sistem na Planirane i Rukovodstvo na Narodnoto Stopanstvo," 1966, pp 6-98.
*JPRS/SF-4296

Some Problems Relating to Tax Payments under the New System of Planning and Management in the National Economy, by Yanko Yanev, 6 pp.
BULGARIAN, per, Schetovodstvo i kontrol, No 1, Jan-Feb 1966, pp. 12-16.
JPRS 36247

Some Problems in Crediting Related to the New System of Planning and Management of the National Economy, by Delcho Sapundzhiev, 16 pp.
BULGARIAN, per, Schetovodstvo i kontrol, No 2, Mar 1966, pp. 15-25.
JPRS 35860

Bulgarian Economic Development in Foreign Trade in 1965, by Georgi Yankov, 8 pp.
BULGARIAN, per, Vunshna turgoviya, No 4, Apr 1966, pp. 6-9.
JPRS 36003

The Foreign Exchange Problems of Joint Enterprises of the Socialist Countries, by Georgi Danov, 10 pp.
BULGARIAN, per, Vunshna turgoviya, No 4, Apr 1966, pp. 9-13.
JPRS 36003

Supplementary Protocol to the Trade and Payments Agreement between Bulgaria and Turkey of 23 February 1955, 16 pp.
BULGARIAN, per, Vunshna turgoviya, No 4, Apr 1966, pp. 20-26.
JPRS 36003

Eastern Europe
Economic (Contd)

The Internal Economic Account in an Industrial Enterprise, by Emil Khristov, BULGARIAN, bk, Vutreshnata Stopanska Smetka V Promishlenoto Predpriyatiye, Booklet No 2, of the Biblioteka "Problemi na Novata Sistem na Planirane i Rukovodstvo na Narodnoto Stopanstvo," 1966, pp 3-126.
*JPRS/DC-12487

Technical and Economical Factors of the State and Development of Yugoslav Shipbuilding Industry, by Otokar Kohout, CROATIAN, per, Brodogradnja, No 1, 1966, pp 1-8.
*ACSI J-0103
ID 2204030366

French Shipbuilding Industry in 1965, CROATIAN, per, Brodogradnja, No 1, 1966, pp 28-30.
*ACSI J-0103
ID 2204030366

Scientific, Technological and Economic Bases for the Management of Agricultural Production, by J. Burian, 15 pp.
CZECH, per, Ekonomika Zemedelstvi, No 4, Apr 1966, pp. 77-80.
JPRS 36072

Design and Erection of a Large-Span Bridge Concreted Without Scaffolding in Cantilever Manner, by T. Bartkova, M. Almer, CZECH, per, Inzenyrskie Stavby, April 1965, *ACSI J-0105
ID 2204030566

The Use of Coupled Screw Jacks for the Lifting of a Road Bridge, by F. Liska, CZECH, per, Inzenyrskie Stavby, April 1965, *ACSI J-0105
ID 2204030566

A Lifting of Track and Road Bridges Designed as Frame Systems, by A. Sustacek, CZECH, per, Inzenyrskie Stavby, April 1965, pp 151-156.
*ACSI J-0105
ID 2204030566

Our Oldest Technical Association Celebrates its Jubilee, by V. Lomic, CZECH, per, Inzenyrskie Stavby, April 1965, pp 156-157.
*ACSI J-0105
ID 2204030566

**Eastern Europe
Economic (Contd)**

Handbook for Packaging Machine made Products,
CZECH, rpt, Prirucka Baleni Strojirenskych Vyrobu, 1962, pp 35-58; 75-79.
*ACSI J-0301
ID 2218034565

NCO's Handbook.
CZECH, rpt, Prirucka Poddustojnika, 1964, pp 56-59.
*ACSI J-0326
ID 2213533564

Decree No 8 on Price Determination, Control and Statistics Issued by State Commission for Finance, Prices and Wages on 24 January 1966, 28 pp.
CZECH, per, Sbirka zakonu Ceskoslovenske socialisticke republiky, Vol 1966, Part 3, 16 Feb 1966, pp. 18-28.
JPRS 36032

Decree No 9 on Price Control and Price Statistics Issued by the Central Commission of People's Control and Statistics, 4 Feb 1966, 8 pp.
CZECH, per, Sbirka zakonu Ceskoslovenske socialisticke republiky, Vol 1966, Part 3, 16 Feb 1966, pp. 29-31.
JPRS 36032

Machines and Devices for the Building Mechanization, by V. Smitka.
CZECH, per, Technicka Prace, Sept 1963, pp 676-680.
*ACSI J-0263
ID 2204035366

Tasks of Peasant Trade Cooperatives, by G. Sperling, 5 pp.
GERMAN, per, Agrar Okonomik, No 4, Apr 1966, pp. 184-193
JPRS 36133

Information on the Construction Materials Industry, by Dr. H. Muller, 6 pp.
GERMAN, per, Baustoffindustrie, No 4, Apr 1966, pp. 97-100.
JPRS 36189

Annual Report for 1965 on the Production of Inland Fishing in East Germany, by Herbert Zobel, 21 pp.
GERMAN, per, Deutsche Fischerei-Zeitung, No 4, Apr 1966, pp. 81-94.
JPRS 36131

**Eastern Europe
Economic (Contd)**

Tasks and Problems of Specialized Potato Production, by G. Jannermann and M. Kleditzsch, 8 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 4, Apr 1966, pp. 180-183.
JPRS 36022

Crop and Weather Report, 11 March - 10 April 1966, by W. Krumbiegel, 5 pp.
GERMAN, per, Die Deutsche Landwirtschaft, Vol 17, No 5, May 1966, pp. 271-272.
JPRS 36022

A Survey of the Status of the Development of Textile Auxiliaries in the German Democratic Republic, by G. Hornbogen, 19 pp.
GERMAN, per, Deutsche Textil-Technik, No 3, Mar 1966, pp. 183-185 and No 4, Apr 1966, pp. 258-262.
JPRS 36005

Under the Leadership of the S.E.P. Our Textile Industry Is on the Right Track, by K. Abendroth, 8 pp.
GERMAN, per, Deutsche Textil-Technik, No 4, Apr 1966, pp. 209-211.
JPRS 35005

The Creative Work of the Party in the Shaping of the Socialist Economic System, by Gunter Mittag, 16 pp.
GERMAN, per, Einheit, No 4, 4 Apr 1966, pp. 466-475.
JPRS 35910

Basic Problems of Socialist Rationalization by Alfred Neumann, 14 pp.
GERMAN, per, Einheit, No 4, 4 Apr 1966, pp. 476-487.
JPRS 35910

Problems of Planning in the Second Stage of the New Economic System of Planning and Management, by Siegfried Bohm, 15 pp.
GERMAN, per, Einheit, No 4, 4 Apr 1966, pp. 500-509.
JPRS 35910

Economic Problems of the Shaping of East Germany's Modern Intensive Agriculture, by Gerhard Grunenberg, 14 pp.
GERMAN, per, Einheit, No 5, May 1966, pp. 632-640.
JPRS 36072

Eastern Europe
Economic (Contd)

20-Year Development of the Energy Industry,
by J. Dattelbaum and H. Kaschade, 10 pp.
GERMAN, per, Energietechnik, Vol 16, No 4,
Apr 1966, pp. 145-148.
JPRS 36083

Status of the Development of Multi-Stage Vertical Condensate Centrifugal Pumps in the GDR and Observations Concerning Self-Regulating of Condensate Centrifugal Pumps, by A. Gradewald, 18 pp.
GERMAN, per, Energietechnik, Vol XVI, No 4, Apr 1966, pp. 149-154.
JPRS 36083

New Equipment from VEB Carl Zeiss JENA at the 1966 Leipzig Technical Fair, by R. Jobst.
GERMAN, per, Feingeratetechnik, No 4, 1966, pp 153-157.
*ACSI J-0300
ID 2204037866

Films for Meat and Meat Products,
by C. F. Boehme, 5 pp.
GERMAN, per, Fette, Seifen, Anstrichmittel, Vol LXVII, No 2, 1965, pp 131-132.
CFSTI TT-66-10755

Long-Range Plan of the Consumer Cooperatives to 1970, by Horst Klingbeil, 8 pp.
GERMAN, per, Der Handel, Vol 16, No 4, Apr 1966, pp. 155-158.
JPRS 36005

Information on the Organization of the Consumer Cooperatives, by Kurt Preikschat, 6 pp.
GERMAN, per, Der Handel, Vol 16, No 4, Apr 1966, pp. 187-189.
JPRS 36005

Research and Development, by G. Kittel, 14 pp.
GERMAN, per, Kraftfahrzeugtechnik, No 2, 1966, pp 45-50.
ACSI J-0122
ID 2204031336

New Variants of the IFA W 50 Truck,
by Gerhard Zimmer, 11 pp.
GERMAN, per, KFZ-Kraftfahrzeug-Technik, No 3, 1966, pp 97-101,
ACSI J-0180
ID 2204032766

Eastern Europe
Economic (Contd)

The W 50 With Universal Installer Crane,
GERMAN, per, KFZ-Kraftfahrzeug-Technik, No 3, 1966, pp 104.
ACSI J-1080
ID 2204032766

East German -- Danish Trade Agreement for 1966, 5 pp.
GERMAN, per, Markt-Informationen, No 19, 9 May 1966, p. 11.
JPRS 36072

Turbine Unit Construction Systems for Industrial and Heating Power Stations, by P. Kamps, 17 pp.
GERMAN, per, Maschinenbautechnik, No 4, Apr 1966, pp. 170-177.
JPRS 36082

The New 25 Megawatt Industrial Turbine Standard Series, by G. Elschner and W. Groth, 14 pp.
GERMAN, per, Maschinenbautechnik, No 4, Apr 1966, pp. 179-185.
JPRS 36082

Physico-Chemical Investigations of Gamma-Ray Modified Cellulose, by H. Sulser, H. Mohler, et al, 9 pp.
GERMAN, per, Mitteilungen aus dem Gebiete der Lebensmitteluntersuchungen und Hygiene, Vol IV, No 4, 1964, pp 264-273.
CFSTI TT-66-11081

The New Vacuum Steel Plant in the '8 Mai 1945' Fine Steel Mill, Freital, by Rolf Thieme and Karlheinz Werner, 18 pp.
GERMAN, per, Neue Huette, Vol 11, No 4, Apr 1966, pp. 200-207.
JPRS 36083

Transportation Minister Reports on East German Railroad System, by Dr. Erwin Kramer, 13 pp.
GERMAN, per, Osshd Zeitschrift der Organisation fur die Zusammenarbeit der Eisenbahnen, Vol 9, No 2, Mar-Apr 1966, pp. 1-9.
JPRS 36073

Reports on OSShd Committee Work, 11 pp.
GERMAN, per, Osshd Zeitschrift der Organisation fur die Zusammenarbeit der Eisenbahnen, Vol 9, No 2, Mar-Apr 1966, pp. 23-27.
JPRS 36073

Prices in CEMA Foreign Trade, by Bela Csikos-Nagy, 12 pp.
GERMAN, per, Osteuropa-Wirtschaft, Mar 1966, pp. 1-10.
JPRS 36003

**Eastern Europe
Economic (Contd)**

Plastics Production and Research in East Germany -- Past and Future, by Dr. A. Wende, 9 pp.

GERMAN, per, Plaste und Kautschuk, No 4, Apr 1966, pp. 193-195.
JPRS 36031

Direction and Achievements of Ocean Fishing of GDR, by H. Weise, 21 pp.

GERMAN, per, Schiffbautechnik, No 4, Apr 1966, pp. 219-229.
JPRS 36176

Information on East German Seaports, by G. Scheff, 18 pp.

GERMAN, per, Schiffautechnik, No 4, Apr 1966, pp. 230-237.
JPRS 36180

New Tank Cleaning Vessel Developed by Warnow Ship Yard, by Rostock Hollnagel, 5 pp.

GERMAN, per, Seeverkehr, No 5, May 1966, pp. 197-198.
JPRS 36073

New Regulations Concerning Management of Cooperative and Private Forests, by S. Ziegler and G. Oelschelegel, 8 pp.

GERMAN, per, Die Sozialistische Forst Wirtschaft, Vol 16, No 5, May 1966, pp. 137-140.
JPRS 36072

Conference on Questions of International Postal and Telecommunications Law, by Rudolf Lange, 6 pp.

GERMAN, per, Staat und Recht, No 4, Apr 1966, pp. 672-676.
JPRS 35073

Theses on the Legal Organization of Cooperation Associations in Agriculture, by Hans-Werner Alma and Gerhard Rosenau, 23 pp.

GERMAN, per, Staat und Recht, No 5, May 1966, pp. 782-801.
JPRS 36072

Legal Questions Concerning the Exchange of Scientific-Technical Results among CEMA Countries in Connection with Foreign Trade Operations, by Dietrich Maskow, 20 pp.

GERMAN, per, Staat und Recht, No 5, May 1966, pp. 801-817.
JPRS 36088

**Eastern Europe
Economic (Contd)**

Information on the Veb Elbaue-Ostharz Long-Distance Water Supply Enterprise, 6 pp.

GERMAN, per, Wasserwirtschaft-Wassertechnik, Vol XVI, No 4, Apr 1966, pp. 131-133.
JPRS 35997

Economic Measures Promote International Socialist Division of Labor, by Dr. Heinz Emmerich, 12 pp.

GERMAN, per, Die Wirtschaft, 7 Apr 1966, pp. 16-17.
JPRS 35860

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GERMAN, per, Die Wirtschaft, No 16, 21 Apr 1966, pp. 16-17.
JPRS 36247

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HUNGARIAN, per, Allam es Jogtudomány, Vol VIII, No 3, 1965, pp. 389-407.
JPRS 35908

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HUNGARIAN, per, Partelet, No 5, May 1966, pp. 6-15.
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JPRS 36004

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JPRS 36022

Development of the Railways, 1966-1970.

POLISH, rpt, 1966
DIA 2878021866

Domestically-Produced Auxiliary Agents for the Textile Industry, by Witold Daweck and Zenon Bochenki, 7 pp.

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JPRS 36031

Eastern Europe
Economic (Contd)

Some Problems of CEMA Specialization in Chemical Industry, by Zdzislaw Nowak, 5 pp.
POLISH, per, Chemik, No 2, Feb 1966, pp. 61-62.
JPRS 36088

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POLISH, per, Chemik, No 3, Mar 1966, pp. 81-85.
JPRS 36031

Domestic Auxiliary Agents for the Leather Industry, by Witold Kawecki and Zenon Bochenski, 7 pp.
POLISH, per, Chemik, No 3, Mar 1966, pp. 94-95.
JPRS 36031

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JPRS 36072

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POLISH, per, Nafta, No 4, Apr 1966, pp. 5-6 of the supplement
JPRS 36089

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JPRS 36007

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JPRS 36007

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JPRS 36072

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POLISH, per, Nowe Rolnictwo, No 10, 16-31 May 1966, pp. 1-4.
JPRS 36268

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JPRS 36008

Eastern Europe
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POLISH, per, Technika i Gospodarka Morska, No. 2, Feb 1966, pp. 75-78.
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POLISH, per, Technika i Gospodarka Morska, No 4, Apr 1966, pp. 151-154.
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JPRS 36083

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JPRS 36008

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JPRS 36003

Agriculture in 1966-1970, by Wladyslaw Jagustyn, 7 pp.
POLISH, np, Zycie Gospodarcze, No 21, 22 May 1966, pp. 1, 8-9.
JPRS 36022

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JPRS 35997

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POLISH, np, Zycie Gospodarcze, No 21, 22 May 1966, p. 9.
JPRS 35997

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POLISH, per, Zycie Gospodarcze, No 22, 29 May 1966, pp. 1 & 5.
JPRS 36132

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JPRS 36004

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RUMANIAN, per, Finante si credit, Vol XII, No 2, Feb 1966, pp. 12-22.
JPRS 36032

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JPRS 36008

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RUMANIAN, per, Muncitorul forestier, 23 Mar 1966.
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JPRS 36073

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JPRS 36073

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JPRS 36007

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JPRS 36022

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JPRS 36022

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JPRS 35860

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JPRS 36031

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JPRS 36031

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JPRS 36031

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SERBO-CROATIAN, per, Automatika, No 6, Nov-Dec 1965, pp. 396-398.
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Eastern Europe
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The "Prva Petoletka" Hydraulic Equipment
Factory, Trstenik, 10 pp.
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1965, pp. 403-406.
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The "Teleoptik" Factory, Zemun, 6 pp.
SERBO-CROATIAN, per, Automatika, No 6, Nov-Dec
1965, pp. 407-409.
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The Economic Interest in Results of Enter-
prises Will Become An Important Moving
Force in the Economy, by Frantisek Krajcir,
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SERBO-CROATIAN, np, Borba, 4 Apr 1966.
JPRS 35860

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Mar 1966, pp. 186-202.
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in Zagreb, 1946-1966, 20 pp.
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pp. 45-53.
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1966, pp. 127-131.
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Nov 1965, pp. 419-424.
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Siradovic, 12 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled,
No 11, Nov 1965, pp. 425-428.
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No 12, Dec 1965, pp. 465-470.
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No 1, Jan 1966, pp. 10-12.
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JPRS 36083

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JPRS 36083

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of Yugoslavia, by Ivo Jamnicki, 32 pp.
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Control of Prices, 12 pp.
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pp. 167-171.
JPRS 36094

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and Application of Science in Agriculture,
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pp. 1-12.
JPRS 36022

Information on the Law on Statistics,
by Slobodan Maksimovic, 5 pp.
SERBO-CROATIAN, per, Privredni pregled,
Vol XV, 4 Jun 1966, p. 2.
JPRS 36209

Eastern Europe
Economic (Contd)

Employment during the Implementation of the Economic Reform, by Djuro Vekic, 17 pp.
SERBIAN, per, Produktivnost, No 4, Apr 1966, pp. 243-249.
JPRS 36134

Metallogenetic Eras and Tungsten Deposits in Yugoslavia, by Dr. Engr Slobodan Jankovic, 6 pp.
SERBO-CROATIAN, per, Rudarski glasnik, No 1, Jan 1966, pp. 47-50.
JPRS 36238

Types of Nickel Deposits in Yugoslavia, by Dr. Engr Slobodan Jankovic, 6 pp.
SERBO-CROATIAN, per, Rudarski glasnik, No 1, Jan 1966, pp. 51-54.
JPRS 36238

Contributions and Taxes Paid by Private Agricultural Producers in Yugoslavia, by M. D., 10 pp.
SERBIAN, np, Savremena Praksa, 31 Jan 1966, pp. 1 & 7.
JPRS 36072

Business of Economic Organizations in 1965, 10 pp.
SERBIAN, np, Savremena Praksa, 16 May 1966, pp. 1 & 12.
JPRS 35860

The Revised Text of the Law on the Organization of Yugoslav Railroads, 17 pp.
CROATIAN, per, Sluzbeni list SFRJ, Vol XXII, No 5, 2 Feb 1966, pp. 89-95.
JPRS 35997

The Law on Housing Relations, 39 pp.
SERBO-CROATIAN, per, Sluzbeni list SFRJ, Vol XXII, No 11, 16 Mar 1966, pp. 227-238.
JPRS 35997

Eastern Europe
Political

Duties of the Schools in Strengthening Ideological and Political Education, by Hamit Beqja, 26 pp.
ALBANIAN, per, Aresimi Popullor, No 2, Mar-Apr 1966, pp. 3-35.
JPRS 36235

Formalism and Redtape in Political Work with the Masses Should Be Combated, by Xhorzhi Robo, 13 pp.
ALBANIAN, per, Rruga e Partise, No 2, Feb 1966, pp. 3-15.
JPRS 35905

Self-Satisfaction and Indifference Hinder the Implementation of the Party Program, by Tefik Cumani, 11 pp.
ALBANIAN, per, Rruga e Partise, No 2, Feb 1966, pp. 14-22.
JPRS 35905

Necessary Generalizations (Regarding the Dangers of Contemporary Bourgeois Ideology and Culture), 6 pp.
BULGARIAN, np, Narodna kultura, No 13, Mar 1966, pp. 1, 4.
JPRS 35815

Duties of the Bureau in the Primary Party Organization, by Milka Velichkova, 12 pp.
BULGARIAN, per, Partien Zhivot, No 3, Feb 1966, pp. 17-24.
JPRS 35815

The Primary Party Organization--A Political Leader, by Stoil Khristov, 8 pp.
BULGARIAN, per, Partien zhivot, No 6, May 1966, pp. 36-42.
JPRS 36129

The Dialectics of the Withering Away of the Socialist State and the Formula for Its Strengthening, by Peyko Slavov, 19 pp.
BULGARIAN, per, Pravna misul, No 6, Nov/Dec 1965, pp. 86-99.
JPRS 35815

Interview with the Czech Writer Ivan Klimah, by Yehudah Lahav, 5 pp.
HEBREW, np, Kol Haan, 6 May 1966, page not given.
JPRS 36119

Eastern Europe
Political (Contd)

Is the Importance of Ideology Declining?, by Stanislaw Rainko, 7 pp.
POLISH, per, Argumenty, No 17, 24 Apr 1966, p. 8; and No 20, 15 May 1966, pp. 3 & 6.
JPRS 36129

The Essence and Internal Functions of the Rumanian Socialist State during the Completion Period of the Socialist Construction, by Dr. Ioan Ceterchi, 20 pp.
RUMANIAN, per, Justitia Noua, Vol XXII, No 1, Jan 1966, pp. 3-16.
JPRS 36129

The Immortal Son of Germany, by Ya. Dvoretzkiy, 5 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 122-124.
JPRS 36051

45th Anniversary of the Rumanian Communist Party, by Alexandru Draghici, 14 pp.
RUSSIAN, per, Kommunist, No 7, 10 May 1966, pp. 73-84.
JPRS 36051

Polish Account of 23rd CPSU Congress, by Edward Gerek, 5 pp.
RUSSIAN, np, Pravda, 31 May 1966, p. 5.
JPRS 36119

Relations between Yugoslavia and Italy, 16 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, No 12, Dec 1965, pp. 477-482.
JPRS 36003

Eastern Europe
Military

The Role of Commanders and Staffs as Regards the Training of Rear Service Units, by G. Germanov, 8 pp.
BULGARIAN, per, Armeyski pregled, No 5, May 1966, pp. 10-16.
JPRS 36246

The Defense of a Tank Battalion in the Course of an Attack, by Col P. Markov and Lt. Col G. Kolev, 7 pp.
BULGARIAN, per, Armeyski pregled, No 5, May 1966, pp. 29-34.
JPRS 36246

The Use of Helicopters in Combat, by Lt. Col Sp. Spasov, 6 pp.
BULGARIAN, per, Armeyski pregled, No 5, May 1966, pp. 97-99.
JPRS 36246

Bulgarian Armed Forces One-Man Command, by Dobri Dzhurov, 8 pp.
BULGARIAN, np, Narodna Armiya, 27 May 1966, pp. 1 & 2.
JPRS 36156

The Amphibian Armored Car OT-65 by S. Biskup et al.
CZECH, per, Vojenska Technika, No 1, January 1966, pp 12-13.
*ACSI J-0260
ID 2204035166

General Description, 30-mm Quadruple-Gun AA Battery, Hispano Suiza/Contraves, 82 pp.
GERMAN, rpt, Allgemeine Beschreibung-30mm Vierlings-Geschutz Flab.-Btt Hispano Suiza/Contraves, pp 1-46.
ACSI T-9362
ID 2204015566

Accessory Equipment for Pillow Tank.
GERMAN, rpt, Armaturen-Austattung fur Faltbehälter.
*ACSI J-0259
ID 2834009066

Computation of Prospective Favorable Firing Results, Hispano Suiza 30-mm Quad. Btry.
GERMAN, rpt, Berechnung der Erfolgsaussichten fur die 30 mm Vierlingsbatterie Hispano Suiza, pp 1-11.
ACSI T-9362
ID 2204015566

Eastern Europe
Military (Contd)

The Hispano Suiza 30-mm AA Btry-a New
Conception of Medium-Caliber AA.
GERMAN, rpt, Die 30 mm Flakbatterie Hispano
Suiza - Eine Neue Konzeption der
Mittelkaliber-Flak pp 1-28.
ACSI 1-9362
ID 2204015566

Goodyear Pillow Tank
GERMAN, rpt, Faltbehälter Bauart Goodyear.
*ACSI J-0259
ID 2834009066

Tank Fire Tests in the Pluto Mine in
Wanne-Bickel, by Spohn, 14 pp.
GERMAN, per, VFDS Zeit Forschung und Technik
im Brandschutz, Vol XIV, No 4, 1965,
pp 107-113.
Dept of Navy Tr 4739/NRL Tr 1056

Fire Fighting Engines Equipped With
Powder Throwers, by Friedrich Emrich.
7pp.
GERMAN, per, VFDS Zeit Forschung und
Technik im Brandschutz, Vol XIV, No 4,
1965, pp 113-116.
Dept of Navy Tr 4740/NRL Tr 1057

Establishing the Energy Value of Some Food
Concentrates Used in Feeding the Military
by W. Marcom, L. Nicolescu, et al.
RUMANIAN, per, Revista Sanitara Militara,
No 6, 1964, pp 1041-1048.
ACSI J-0170
ID 2204032466

Military Officers Recall Experiences Prior
to Liberation on 23 August 1944, 14 pp.
RUMANIAN, per, Viata militara, Apr 1966,
pp. 9-11.
JPRS 36246

Combat Characteristics and Design of Yugoslav
Machine Gun, by Gvozden Vickovic, 8 pp.
SERBOCROATIAN, per, Front, Vol XXI, No 5,
28 Feb 1965, pp 22, 23.
FSTC 381-765-344

Eastern Europe
Sociological

Comments of Plenum of Writers and Artists
Union -- the Development of Prose and Literary
Criticism, by Dalan Shapilo, 6 pp.
ALBANIAN, up, Drita, 1 May 1966, pp. 2,4.
JPRS 36235

Decree No 4112 on Changes in Various Laws and
Decrees, 6 pp.
ALBANIAN, up, Gazeta Zyrtare, 10 Mar 1966,
pp. 3-7.
JPRS 35905

Decision No 14 Approving the Regulation on
Basic Conditions for Supplying Goods, 6 pp.
ALBANIAN, up, Gazeta Zyrtare, 10 Mar 1966,
pp. 12-16.
JPRS 35905

Literature Should Probe More Deeply into
the Processes of Actual Life, by Koco Bihiku,
10 pp.
ALBANIAN, per, Rruga e Partise, No 2, Feb 1966,
pp. 23-31.
JPRS 35905

Ideological and Political Work in the Schools
Should Be Strengthened, 9 pp.
ALBANIAN, per, Rruga e Partise, No 2, Feb
1966, pp. 39-46.
JPRS 35905

Sanatorium and Resort Administration Tasks,
5 pp.
BULGARIAN, per, Durzhaven vestnik, No 44,
7 June 1966, pp. 1-2.
JPRS 36261

Incomes and Expenditures of Workers, by
Atanas Dimitrov, 8 pp.
BULGARIAN, per, Ekspresna informatsiya-
khranitelna promishlenost, No 2, Feb 1966,
pp. 1-3.
JPRS 36208

Collective Labor Agreements, by Zora Vurbanova,
9 pp.
BULGARIAN, per, Partien zhivot, No 5, Apr 1966,
pp. 17-23.
JPRS 36032

Eastern Europe
Sociological (Contd)

New Regulations on Taxation of Self-Employed Artisans, by Walter Filz, 7 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No 7, Apr 1966, pp. 8 1-8 3.
JPRS 35860

Religious Practices and Philosophical Attitudes in Light of Sociological Research, by Tadeusz M. Jaroszewski, 23 pp.
POLISH, per, Kultura i Spoleczenstwo, No 1, Jan-Mar 1966, pp. 133-149.
JPRS 36097

Resolution No 55 of the Council of Ministers Concerning the Development and Activities of Volunteer Youth Labor Divisions of the Socialist Youth Union and the Rural Youth Union, 6 pp.
POLISH, np, Monitor Polski, No 11, 25 Mar 1966, pp. 117-119.
JPRS 36097

Long Range Urban Population Forecast, by Stanislaw Berezowski, 5 pp.
POLISH, np, Polityka, No 22, 28 May 1966, p. 5.
JPRS 36097

Shortages in the Medical Field, by Miroslaw Chrzanowski, 8 pp.
POLISH, np, Polityka, No 23, 4 June 1966, p. 4.
JPRS 36261

Trial Application of the Pert Method in Planning Work on a Farm, by Wojciech Jozwiak, 11 pp.
POLISH, per, Zagadnienia Ekonomiki Rolnej, No 1(73) Jan-Feb 1966, pp. 99-109.
JPRS 35860

Morbidity and Sickness Rate of Polish People during 1960-1964, by Z. Branovitzer, J. Chojnowska and O. Fraczek, 14 pp.
POLISH, per, Zdrowie Publiczne, No 5, May 1966, pp. 305-314.
JPRS 36208

Current Problems in the Development of Hospitals in Poland, by Ryszard Jachowicz, 7 pp.
POLISH, per, Zdrowie Publiczne, No 5, May 1966, pp. 317-322.
JPRS 36208

Eastern Europe
Sociological (Contd)

Evolution and Present Problems of Hygiene in Rumania, by Gh. Cadariu, 12 pp.
RUMANIAN, per, Igiens, No 4, Apr 1966, pp. 193-201.
JPRS 36177

Aspects of the Expansion of the Labor Force, by Adrian Mirza, 14 pp.
RUMANIAN, per, Lupta de Clasa, Vol 46, No 4, Apr 1966, pp. 10-22.
JPRS 36097

Measures for Improving Labor Safety and Hygienic Conditions in General, by Ioan Spinu, 5 pp.
RUMANIAN, per, Muncitorul Sanitar, 5 May 1966, pp. 1, 3.
JPRS 36140

Achievements in Public Health, 5 pp.
RUMANIAN, per, Muncitorul Sanitar, 5 May 1966, p. 4.
JPRS 36140

Changes in the Social Structure of the Population, by Mircea Biji, 13 pp.
RUMANIAN, per, Probleme Economice, No 4, Apr 1966, pp. 153-162.
JPRS 36208

Statute of the Union of Communist Youth of the Socialist Republic of Rumania, 15 pp.
RUMANIAN, per, Tinarul Leninist, Apr 1966, pp. 68-81.
JPRS 36208

Mass Chronic Diseases, 10 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, No 1, Jan 1966, pp. 19-22.
JPRS 36097

Implementation of the Basic Law on Pension Insurance, 9 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, No 1, Jan 1966, pp. 23-26.
JPRS 36097

Customs Rates, by Ante Domandzic, 5 pp.
SERBIAN, per, Jugoslovenski pregled, No 2, Feb 1966, pp. 58-59.
JPRS 36209

Eastern Europe
Sociological (Contd)

Savings Deposits, by Radoslav Vuksanovic,
8 pp.
SERBIAN, per, Jugoslovenski pregled, No 2,
Feb 1966, pp. 60-62.
JPRS 36209

Changes in the Yugoslav Insurance System, by
Milan Bajic, 8 pp.
SERBIAN, per, Opstina, No 4, Apr 1966, pp. 23-
31.
JPRS 36140

Bringing Practice in Conducting Administrative
Proceedings into Conformity with Statutory Reg-
ulations Concerning Procedure, by Ljubomir Jevtic,
7 pp.
SERBIAN, per, Opstina, No 4, Apr 1966, pp. 39-
47.
JPRS 36140

WESTERN EUROPE

Economic

Packaging Milk all over the World-Development
Trends, 18 pp.
FRENCH, per, Emballages, Vol XXXIV, No 216,
1964, pp 94-99.
CFSTI TT-66-10746

The Parma Experimental Laboratory, by
R. Cultrera, 6 pp.
FRENCH, per, Revue de la Conserve,
Vol XX, No 9, Dec 1965, pp 291-294.
ACSI J-0120

Developments in the Transatlantic Liner Trade.
Containerships or Pallet Ships, by Tore Wins-
vold, 12 p.
NORWEGIAN, per, Tekn. Ukeblad, Vol CXIII, Nr
24, 16 June 1966.
Dept of Comm
Maritime Admin

Western Europe
Political

French Pro-Chicom Organ Explains "Marxist-
Leninist" Line on USSR-China Controversy, by
F. Malot, 8 pp.
CHINESE, per, L'Humanite Nouvelle, Vol 2,
No 19, Jun 1966, pp. 12 & 13.
JPRS 36230

Finnish Representative Discusses Multi-Party
System in Building of Socialism at German
Socialist Unity Party Conference, by Elsa
Aaltonen, 5 pp.
FINNISH, np, Kansan Uutiset, 14 May 1966, p. 4.
JPRS 36057

Finnish Communist Party Chief Discusses
Cooperation within the People's Democratic
Movement, by Ville Fessi, 6 pp.
FINNISH, np, Kansan Uutiset, 21 May 1966,
p. 4.
JPRS 36119

Roger Garaudy and the Return to Marx, by
Margaretha Romberg, 6 pp.
FINNISH, np, Kansan Uutiset, 5 Jun 1966, p. 8.
JPRS 36230

Finnish Communist's Observations on XXIII
CPSU Congress, by Aarne Saarinen, 7 pp.
FINNISH, per, Kommunisti, No 4, Apr 1966,
pp. 142-145.
JPRS 35982

The Role of Subjectivism in the Building of
Communism, by A. Sorokin, 6 pp.
FINNISH, per, Kommunisti, No 4, Apr 1966,
pp. 148-151.
JPRS 35982

Swiss Communist Party View of Self-Management,
5 pp.
FRENCH, per, L'Etincelle, Vol 3, No 18, Mar-
Apr 1966, pp. 7-9.
JPRS 36119

Is There Still a Communist Party in France?
by Jacques Jurquet, 5 pp.
FRENCH, np, L'Humanite Nouvelle, Vol 2,
No 18, May 1966, p. 1, 2.
JPRS 35982

Western Europe
Political (Contd)

Concerning the Eleventh Congress of the Italian Communist Party, 6 pp.
FRENCH, per, L'Humanite Nouvelle, Vol 2, No 18, May 1966, p. 13.
JPRS 35982

Critical Review of the 23rd Congress of the Communist Party of the USSR, 7 pp.
FRENCH, per, Unir pour le Socialisme, No 162, May 1966, pp. 6-7.
JPRS 35982

Can the French Communist Party Be Reformed?
6 pp.
FRENCH, per, Unir pour le Socialisme, No 162, May 1966, pp. 8-9.
JPRS 35982

Commentaries on the Four Recent Communist Youth Congresses Sponsored by the French Communist Party, 14 pp.
FRENCH, per, Unir pour le Socialisme, No 162, May 1966, pp. 10-13.
JPRS 35982

Haitian Marxists-Leninists and the 23rd Congress, 7 pp.
FRENCH, np, La Voix du Peuple, 8 Apr 1966, pp. 19-20.
JPRS 36119

La Voix du Peuple Criticizes Recent "Khrushchev" Congresses, by F. L., 6 pp.
FRENCH, per, La Voix du Peuple, No 20, 20 May 1966, p. 20.
JPRS 35889

Congress of West European Communist Parties Held in Vienna, 9-11 May, 8 pp.
GERMAN, np, Volksstimme, 13 May 1966, pp. 1, 3.
JPRS 35982

Interview with M. Stoh in the Organ of the Norwegian Communist Party, by M. Kaspi, 5 pp.
HEBREW, np, Kol Haam, 10 May 1966, p. 2.
JPRS 36230

Western Europe
Political (Contd)

Italian Anticomunist Socialist Discussion of Marxist or Liberal Humanism, by Ruggiero Guarini, 14 pp.
ITALIAN, per, Corrispondenza Socialista, No 4, Apr 1966, pp. 178-185.
JPRS 35982

Italian Anticomunist Socialist Commentator Thinks CPSU Congress Was Academic-Type Congress, by Giorgio Gironi, 7 pp.
ITALIAN, per, Corrispondenza Socialista, No 4, Apr 1966, pp. 203-206.
JPRS 35982

Military

French Navy Personnel Strengths; General Recapitulation of French Naval Manpower as of 31 Jan 1966.
FRENCH, rpt, 1 January 1966.
DIA 5832010466

From Military Kites to Guided Reconnaissance Drones, by Maurice Baudouin, 33 pp.
FRENCH, per, L'Air et L'Espace, No 790, December 1962, pp 19-28. 9700735
Dept of Navy/ONI Tr No 976

The Braking of Large Vessels, by H. E. Jaeger, M. Jourdain.
FRENCH, per, Association Tech Maritime et Aeron
*Dept of Navy/DTMS

Atomic Risks and Marine Insurance, by P. Gaston-Breton, 5 p.
FRENCH, per, Journal de la Marine Marchande, 28 April 1966.
Dept of Comm
Maritime Admin

Summary Description of the Model 1963, Carrying Bag for Individual Protective Equipment,
FRENCH, rpt, Notice Descriptive Sommaire du Sac de Transport de l'Equipement Individuel de Protection, Modele 1963, Koblenz, April 1964.
*ALSI J-0014
ID 2204029266

Western Europe
Military (Contd)

Instruction for the Use of the Model 1963,
collection of Protective Items of Equipment.
FRENCH, rpt, Notice d'Emploi de la Collection
d'Effets de Protection, Modele 1963,
C.M.R.

*ACSI J-0014
ID 2204029266

Temporary Note: Cloth Cap.
FRENCH, rpt, Notice Provisoire:
Casquette en Toile, Jun 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Dust Overalls
FRENCH, rpt, Notice Technique: Combinaison
Anti-Poussieres, September 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Fur-Lined Muffles (Fingerless
Gloves),
FRENCH, rpt, Notice Technique: Moufles
Fourrees, October 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Cloth Combat Trousers,
Model 1963.
FRENCH, rpt, Notice Technique: Pantalon
de Combat en Toile, Modele 1963, June 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Parka With Removable Liner.
FRENCH, rpt, Notice Technique: Parka Avec
Doublure Amovible, June 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Assault Pack (Model With Fixed
Shoulder Straps and Ammunition Pouches).
FRENCH, rpt, Notice Technique: Sac d'Assault/
Modele Avec Bretelles Fixes et Poche a
Munitions, November 1963.

*ACSI J-0014
ID 2204029266

Western Europe
Military (Contd)

Technical Note: Sleeping-Bag Carrier;
Annex: Description and General Characteristics
of the Sleeping Bag.

FRENCH, rpt, Notice Technique: Systeme
de Transport du Sac de Couchage; Annexe:
Description et Caracteristiques Generales
du Sac de Couchage, December 1963.

*ACSI J-0014
ID 2204029266

Technical Note: Cloth Combat Jacket, Model 1963.
FRENCH, rpt, Notice Technique Veste de
Dombat en Toile, Modele 1963, Jun 1963.

*ACSI J-0014
ID 2204029266

Vaccinations in Foreign Armies, by R. Buriez,
P. Many, et al, 10 pp.

FRENCH, per, Revue des Corps de Sante des
Armees, Vol VII, No 1, Feb 1966.

ACSI J-0058
ID 2204029266

Long Underwear.

FRENCH, rpt, Sous-Vetement a Jambes Longues et
Sous-Vetement a Manches Longues. GV.

*ACSI J-0014
ID 2204029266

Sociological

Religion or Party? Commentary on a Discourse
by Paul VI, by Gilbert Mury, 5 pp.

FRENCH, per, France Nouvelle, No 1076, 1 June
1966, pp. 15, 16.

JPRS 36119

A Contribution to the Analysis of Classes in
France, 8 pp.

FRENCH, per, L'Humanite Nouvelle, Vol 2, No
18, May 1966, pp. 12, 13.

JPRS 35982

Western Europe
Sociological (Contd)

Colloquy of Christians and Marxists Sponsored by Paulus Society of Munich, by Henri Fesquet, 5 pp.
FRENCH, np, Le Monde, 6 May 1966, p. 8.
JPRS 35980

Italian Anticommunist Socialist View of Padua, Capital of Dissidence, by Guelfo Zacaria, 9 pp.
ITALIAN, per, Corrispondenza Socialista, No 4, Apr 1966, pp. 198-202.
JPRS 35982

AFRICA

Economic

Economic Survey of Mauritania, 23 pp.
FRENCH, per, Bulletin de l'Afrique Noire, No 416, 4 May 1966, pp. 8393-8409.
JPRS 35886

The Financial Situation in Upper Volta, by Marc Tiemoko Garango, 5 pp.
FRENCH, np, Carrefour Africain, Vol 7, No 207, 9 Apr 1966, pp. 3 & 5.
JPRS 36300

New Prospects in Agriculture, by Firmin Abalo, 6 pp.
FRENCH, per, Europe-France-Outremer, Vol 42, No 432, Jan 1966, pp. 27, 28, 29, 30, 31.
JPRS 35882

Decrees Instituting Committees for Central African Planning Organization and Appointing Their Personnel, 8 pp.
FRENCH, per, Journal Officiel de la Republique Centrafricaine, Vol 8, No 10, 15 May 1966, pp. 259-61, 261-62, 262-63.
JPRS 36049

Study on the Establishment of Basic Industries in the Congo (Leopoldville), 14 pp.
FRENCH, per, Lettre Mensuelle de l'INRS, Vol 3, No 3, 20 Mar 1966, pp. 1-14.
JPRS 36300

Africa
Economic (Contd)

French Foreign Affairs Secretary Stresses Urgency of African Economic Reorganization, by Jean De Broglie, 5 pp.
FRENCH, per, L'Observateur du Moyen-Orient et de l'Afrique, Vol X, No 21, 27 May 1966, pp. 16-18.
JPRS 36214

Mali in 1966 -- A General Survey, 8 pp.
FRENCH, per, Perspective Africaine -- Syntheses Politiques et Economiques, Vol 10, No 191, 27 Apr 1966, pp. 1-8.
JPRS 36214

The New African Port of Cotonou, by Th. J. Delaye, 12 pp.
FRENCH, per, La Revue Maritime, No 229, Feb 1966, pp. 229-241.
JPRS 36049

Political

Activities of the Ministries of Katanga Oriental Province, by Governor Munongo Godefroid, 9 pp.
FRENCH, per, Sud-Katanga, Vol 7, No 160, 30 Apr 1966, pp. 3-8.
JPRS 35882

Madagascar's Position in Present International Politics, by Raymond William Rabemananjara, 7 pp.
FRENCH, per, L'Afrique Actuelle, No 8, May 1966, pp. 63-64.
JPRS 36214

Speeches by Barthoud and Massamba-Debat on May Day, 25 pp.
FRENCH, per, Bulletin Quotidien de l'AGI, 3 May 1966, pp. 2-21 and 5 May 1966, pp. 2-7.
JPRS 36049

Report on Afro-Asian Journalists Association Conference at Peking, 20-24 April, and Text of Speeches by Malian Delegates, by Modibo Babu Keita, 8 pp.
FRENCH, np, L'Essor Hebdomadaire, No 356, 23 May 1966, pp. 3, 6.
JPRS 36191

Africa
Political (Contd)

Congolese Partisans Seek a Strategy, by A.L. 6 pp.

FRENCH, per, La Gauche, Vol 10, No 18, 7 May 1966, pp. 6-7.
JPRS 36049

Ghana Takes Steps to Overcome Nkrumah's Legacy, by Gertrud Mander, 6 pp.

GERMAN, np, Die Zeit, Vol 21, No 18, 29 Apr 1966, pp. 6-7.
JPRS 35882

Soviet View of Problems Confronting the Organization of African Unity, by V. Kudryavtsev, 5 pp.

RUSSIAN, np, Izvestiya, 20 Apr 1966, p. 2.
JPRS 36300

Strife in Burundi Attributed to Outside Interference, by D. Lozinov, 5 pp.

RUSSIAN, np, Izvestiya, 15 May 1966, p. 5.
JPRS 36300

Mali Political Leader Stresses the Importance of African Unity, by Madeira Keita, 5 pp.
RUSSIAN, np, Pravda, 25 May 1966, p. 5.
JPRS 36300

Soviet Journalist Predicts Emergence of a Free Africa in Spite of Imperialist Subversive Actions, by V. Kudryavtsev, 5 pp.

RUSSIAN, per, La Rubeshom, No 22, 27 May/2 Jun 1966, p. 9.
JPRS 36300

Madrid Journal Assesses President Luebke's Trip to Africa, by Bernabe Rato, 5 pp.

SPANISH, per, Africa, Vol 23, No 292, Apr 1966, pp. 30-32.
JPRS 35988

Africa
Military

Reorganization of Administrative Services of the Central African Republics Armed Forces and Duties of Ministry of National Defense Described, 7 pp.

FRENCH, per, Journal Officiel de la Republique Centrafricaine, Vol 8, No 7, 1 Apr 1966, pp. 195-196.
JPRS 35882

Sociological

Social Changes among the Baka Pygmies of East Cameroon, by Gerard Althabe, 26 pp.

FRENCH, per, Cahiers d'Etudes Africaines, Vol 5, No 4, 1965, pp. 561-592.
JPRS 35882

Three Congo (Leopoldville) Labor Unions: Doctrines and Programs, 19 pp.

FRENCH, per, Congo-Afrique, Vol 6, No 5, May 1966, pp. 234-255.
JPRS 36191

Resolutions of Fourth National Congress of the Union of Congolese Workers, 8 pp.

FRENCH, per, Etudes Congolaises, Vol IX, No 2, Mar-Apr 1966, pp. 73-80.
JPRS 36172

Dim Future Foreseen for Congo (Leopoldville) University Graduates, by Espoir Amonakala, 5 pp.

FRENCH, np, La Gauche, Vol 10, No 20, 21 May 1966, p. 9.
JPRS 36049

Progress Requires People's Total Commitment, 5 pp.

FRENCH, np, Horoya, 24 May 1966, pp. 1-2.
JPRS 36103

President Toure On the Guinean Concept of Education, by Sekou Toure, 6 pp.

FRENCH, np, Horoya, 31 May 1966, pp. 1-3.
JPRS 36172

Africa
Sociological (Contd)

Law Establishing Family Assistance Program for Wage Earners in the Central African Republic, 9 pp.

FRENCH, per, Journal Officiel de la Republique, 1 Jul 1965, pp. 487-491.

JPRS 36172

The Harrist Churches and Ivory Coast Nationalism, by Ernest Amos-Djoro, 10 pp.

FRENCH, per, Le Mois en Afrique, Vol 1, No 5, May 1966, pp. 26-47.

JPRS 36172

The Practice of Mahdism in Africa, by Pierre Rondot, 11 pp.

FRENCH, per, Le Mois en Afrique, Vol 1, No 5, pp. 48-60.

JPRS 36172

Past and Present of Religious Innovations in Congo (Leopoldville), by Caludine Vidal, 18 pp.

FRENCH, per, Le Mois en Afrique, Vol 1, No 5, May 1966, pp. 61-79.

JPRS 36172

The Toko Church and the Angolan Liberation Movement, by Alfredo Margarido, 15 pp.

FRENCH, per, Le Mois en Afrique, Vol 1, No 5, May 1966, pp. 80-97.

JPRS 36172

Muslim Sects and Negro-African Civilizations, by Jean-Claude Froelich, 8 pp.

FRENCH, per, Le Mois en Afrique, Vol 1, No 5, May 1966, pp. 98-105.

JPRS 36172

The Flup Kings and the Ewag Initiation Rites, by L.-V Thomas, 16 pp.

FRENCH, per, Notes Africaines, No 109, Jan 1966, pp. 10-19.

JPRS 36300

Preliminary Work Completed in Construction of Kouilou Dam in Congo (Brassaville), by P. N. Breil, 7 pp.

FRENCH, np, La Semaine, Vol 15, No 711, 17 Apr 1966, pp. 1 & 6; Vol 15, No 713, 1 May 1966, p. 3.

JPRS 35882

Africa
Sociological (Contd)

Shortcomings Revealed by Cotton Conference in Moundou, Chad, 7 pp.

FRENCH, per, Le Tchad en Marche, No 13, Apr-May 1966, pp. 2-9.

JPRS 36172

Infrastructure of the Republic of Guinea, by Mamadou Traore Ray Autra, 12 pp.

GERMAN, per, Afrika heute, No 9, 1 May 1966, pp. 132-133.

JPRS 36300

The Development of Bambara As a Trade Language, by Eno Beuchet, 9 pp.

GERMAN, per, Afrika Heute, No 10, 15 May 1966, pp. 143-147.

JPRS 36049

Present Situation at Somali Technical Schools for Accountants and Surveyors, 5 pp.

ITALIAN, np, Corriere della Somalia, 4 May 1966, pp. 3-4.

JPRS 35882

SYL Party Celebrates 23d Anniversary, 5 pp.

ITALIAN, np, Corriere Della Somalia, No 111, 16 May 1966, pp. 1, 4.

JPRS 36172

The Market for Pocket-Books in Africa, by A. Retif, 10 pp.

ITALIAN, per, Nigrezia, No 1, Jan 1966, pp. 10-13.

JPRS 35882

Nigeria: From Slave-Trade to Capitalism, by Francesco Pistolese, 9 pp.

ITALIAN, per, L'Unita, May 11, 1966, p. 11.

JPRS 36172

Soviet Comment on Kenya's Attempt at Building Socialism, by V. Kudryavtsev, 5 pp.

RUSSIAN, np, Investiya, 30 Apr 1966, p. 2.

JPRS 36300

MIDDLE EAST

Economic

Development of Agricultural Professional
Unions, 5 pp.
ARABIC, np, Al-Ahram, 16 Apr 1966, p. 9.
JPRS 35666

Conference on Local Administration Discussed
Yesterday Three Important Proposals for the
Development of Local Administrative Machinery,
by Mahmud Sami, 5 pp.
ARABIC, np, al-Ahram, Apr 20, 1966, p. 7.
JPRS 35958

Textiles of the 'Victory' Spinning and Weaving
Company at Alexandria Increased by 280% in
Four Years, 5 pp.
ARABIC, np, al-Ahram, 22 Apr 1966
JPRS 35958

Current Planning and Development in the Syrian
Arab Region, 15 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 8-12.
JPRS 36075

1965 National Income First Estimates, 10 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 14-18.
JPRS 36075

Industry during 1965; Socialist Transformation
Industrial Problems, Investments, and Produc-
tion, 10 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 30-34.
JPRS 36075

The Development of the Traditional and Artistic
Handicraft Industries, by Hasan Al Hamawi and
Kamal Al Qasimi, 16 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 36-42.
JPRS 36075

Activity and Development of Foreign Currency,
7 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 54-56.
JPRS 36075

Middle East Economic (Contd)

Currency Circulation and Factors Affecting It,
7 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 58-59.
JPRS 36075

The Development of Banking Activity during
1965, 13 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 60-64.
JPRS 36075

The State Budget and Its General Finance,
13 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 68-74.
JPRS 36075

Sources of Foreign Exchange, 7 pp.
ARABIC, np, Al Iqtisadi al-'Arabi, 4 May 1966,
pp. 78-81.
JPRS 36075

Syria's Foreign Trade, by Yahya Aroudaki,
12 pp.
ARABIC, np, Al Iqtisadi al-'Arabi, 4 May 1966,
pp. 84-93.
JPRS 36075

Syria and the Arab Common Market, by Dr.
Kisham Mitwalli, 5 pp.
ARABIC, np, Al Iqtisadi al-'Arabi, 4 May 1966,
pp. 94-97.
JPRS 36075

Economic Chronicle for the Syrian Region --
1965, 11 pp.
ARABIC, np, Al Iqtisadi al-'Arabi, 4 May 1966,
pp. 100-102.
JPRS 36075

Most Important Texts Issued during 1965,
18 pp.
ARABIC, np, Al Iqtisadi al-'Arabi, 4 May 1966,
pp. 103-107.
JPRS 36075

Moroccan Trade Agreements and Export Statis-
tics, 7 pp.
FRENCH, np, Note de Documentation, Jan-Feb
1966, pp. 8-12, 28-31, 32-35, 67, 81, 82, 83,
85.
JPRS 36300

Middle East
Political

The Supreme Administrative Court in Islam,
by Prof. Mu'tamid Muharram "Abd al-Ghani, 5 pp.
ARABIC, per, Minbar al-Islam, Vol 23, No 7,
25 Oct 1965, pp. 184-85.
JPRS 36203

The Time Has Come for a Socialist-Communist
Dialogue in Israel, by Eliezer Feiler, 6 pp.
HEBREW, np, Kol Haam, 29 Apr 1966, pp. 2 & 11.
JPRS 36119

Representatives of Worker-Parties Discuss the
Meaning of May Day, 13 pp.
HEBREW, np, Kol Haam, 29 Apr 1966, pp. 3, 10.
JPRS 36119

Interviews with Konstantine Simonov, by
Tamar Peleg, 5 pp.
HEBREW, np, Kol Haam, 6 May 1966, p. 2.
JPRS 36119

Yiddish Newspaper in Munich on the Question-
naire of Kol Haam on the Problem of Israel-
German Relations, 5 pp.
HEBREW, np, Kol Haam, 13 May 1966, p. 3.
JPRS 35982

May Day 1966 Communist Slogans, 5 pp.
HEBREW, np, Zo Haderekh, 21 Apr 1966, p. 7.
JPRS 36119

Statement of Syrian CP First Secretary
by Khaled Bagdas, 7 pp.
HUNGARIAN, np, Nepszabadsag, 31 May 1966,
pp. 3 & 4.
JPRS 36119

Classes and the Class Struggle in Turkey,
by Yu. N. Rozaliyev.
RUSSIAN, bk, Klassy i Klassevaya Bor'ba v
Turtsii, 1966, pp 1-166.
*JPRS/DC-12515

Iraq, by S. Lagov, S. Alitovskiy.
RUSSIAN, bk, Irak, 1966, pp 1-175.
*JPRS/SF-4314

A Soviet History of Pakistan, by Yu. V.
Gankovskiy and L. R. Gordon-Polonskaya, 422 pp.
RUSSIAN, bk, Istoriya Pakistana, 1961, pp. 1-
374, 381-382.
JPRS 36250

Middle East
Sociological

What Is the Best Way to Check the Accounts
of More than 3600 Cooperatives? by Mukarram
Muhammad Ahmad, Sami Mutawalli and Sa'id Abd al-
Ghani, 6 pp.
ARABIC, np, al-Ahram, 19 Apr 1966, p. 7.
JPRS 35958

Rural Household Industry in Syria, by Marwan
Sahaldawi, 9 pp.
ARABIC, np, Al-Iqtisadi al-'Arabi, 4 May 1966,
pp. 44-49.
JPRS 36075

Arab Communists Call for Unification of Arab
Progressive Forces against the Conspiracies
of Colonialism and Reactionism, 8 pp.
ARABIC, np, al-Nida, 20 May 1966, pp. 1 & 4.
JPRS 36101

Our Attitude Toward the World Jewish Congress,
by Uzi Burstein, 8 pp.
HEBREW, np, Zo Haderekh, 37, 5 May 1966, p. 4.
JPRS 36119

FAR EAST

Economic

The Self-Reliant Way To Develop the Textile
Industry in China, by Li Chu-p'ing, 7 pp.
CHINESE, per, Ching-chi Tao-pao, No 963,
4 Apr 1966, pp. 12-14.
JPRS 36114

More on Rebirth Through Self-Reliance,
by Chen Yung-kwei, 10 pp.
CHINESE, per, Ching-chi Yen-chiu, No 3,
25 Mar 1966, pp. 29-33.
JPRS 35900

How to Make Good Steel, by Wang Ming-chang,
11 pp.
CHINESE, per, Ching-chi Yen-chiu, 25 Mar
1966, pp. 59-64.
JPRS 35900

**Far East
Economic (Contd)**

Sail Transport Co-ops To Exploit Latent Capacities and Fulfill Tasks for 1966, by Chang Wei-mo, 7 pp.
CHINESE, per, Shui-yun, No 2, 7 Feb 1966, pp. 21-23.
JPRS 35874

How To Handle Cargo in Shipment, 6 pp.
CHINESE, per, Shui-yun, No 2, 7 Feb 1966, pp. 31-33.
JPRS 35874

Austerity Drive Yields Initial Results, 7 pp.
CHINESE, per, Shui-yun, No 3, 7 Mar 1966, pp. 5-7.
JPRS 35949

Ready for Revolutionary Progress, 8 pp.
CHINESE, per, Shui-yun, No 3, 7 Mar 1966, pp. 14-17.
JPRS 35949

Use of Dredged Subsoil As Materials to Build River Bed Infrastructures, 5 pp.
CHINESE, per, Shui-yun, No 3, 7 Mar 1966, pp. 31-33.
JPRS 35949

Translations from Ti-li Hsueh-pao.
CHINESE, per, Ti-li Hsueh-pao, Vol 32, No 1, 16 Mar 1966, pp 1-94.
*JPRS/NY-13354

Management Leadership At the Yen Phu Power Plant, by Vu Dang Sieu, 7 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 64-68.
JPRS 35952

Leadership Experiences of the Party Unit of the Hoang Van Thu Paper Mill, by Tran Phu Tuyen, 7 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 69-73.
JPRS 35952

**Far East
Economic (Contd)**

Strengthen Direction of Goods Circulation and Distribution to Serve and Stimulate Strong Development of Production and to Serve Combat and People's Livelihood More Satisfactorily, by Pham Hung, 25 pp.
VIETNAMESE, per, Hoc Tap, No 5, May 1966, pp. 10-29.
JPRS 36012

How to Increase Crop Cultivation, Animal Husbandry, and Agricultural Labor Productivity, by P. V., 25 pp.
VIETNAMESE, np, Nhan Dan, 9 and 10 May 1966, pp. 2-3.
JPRS 36245

Continue to Carry Out the Grain Obligation Stabilization Policy in 1966-1967, by Tran Van Hien, 9 pp.
VIETNAMESE, np, Nhan Dan, 21 May 1966, p. 2; 22 May 1966, p. 2.
JPRS 36232

There Must Be Water-Resources Development Regardless of the Situation, by Ha Ke Tan, 5 pp.
VIETNAMESE, np, Nhan Dan, No 4440, 3 June 1966, p. 2.
JPRS 36245

Political

The Victory in Rebuilding Nan-hui Is the Victory of Mao Tse-Tung's Thought, by Wang Chih-ch'i, 6 pp.
CHINESE, per, Ching-chi Yen-chiu, 25 Mar 1966, pp. 34-36.
JPRS 35900

Political Geography, by Chang Chi-Yun.
CHINESE, bk, Cheng-ch'ih Ti-li-hsueh, Taipehn Taiwan, Dec 1965, 91 pp.
*JPRS/DC-12458

The Significance of Ideological-Theoretical Struggles and the Responsibility of Zenai, by Satoshi Yonehara, 33 pp.
JAPANESE, per, Zenai, No 251, Jun 1966, pp. 18-31.
JPRS 36230

Far East
Political (Contd)

Foreign Economic Relations of the Democratic Republic of Vietnam, by I. M. Shchedrov. RUSSIAN, bk, Kratkie Soobshcheniia Instituta Narodov Azii Ak Nauk SSSR, Vol LIX, 1961, pp. 69-81.
RAND

The Only Correct Stand on the Settlement of the Vietnam Problem, 7 pp.
VIETNAMESE, per, Hoc Tap, No 4, 1966, pp. 1-6.
JPRS 35952

Base-Level "Resist America and Save the Nation" Youth Assault Units, by Le Duc Chinh, 5 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 55-59.
JPRS 35952

Do A Good Job of the Party Development Work, by Vu Trac, 6 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 60-64.
JPRS 35952

Let Us Destroy the U.S. Imperialists' False Argument of Being 'Ready To Go Back To the 1964 Geneva Agreement', by Ha Van Lau, 9 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 74-81.
JPRS 35952

Military

Strengthen the Mountain Region Base Area, by Le Quang Ba, 17 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 35-47.
JPRS 35952

Youth Assault Troop Units, by Nguyen Van Da, 9 pp.
VIETNAMESE, per, Hoc Tap, No 4, Apr 1966, pp. 48-54.
JPRS 35952

Instructions for Building Fox Holes, 5 pp.
VIETNAMESE, np, Nhan Dan, 20 May 1966, p. 3.
JPRS 36232

Far East
Sociological

The Standpoint of Which Class Do the Editorial Departments of Ch'ien-Hsien and Peking Jih-Pao Take? by Ch'i Pen-yu, 14 pp.
CHINESE, per, Hung-ch'i, No 7, 1966.
JPRS 36059

Preliminary Research on Agricultural Regions in the Mixed Agro-Pastoral Realm of Kansu and Tsinghai, by Chou Li-san, Wu Chuan-chun, Chao Sung-ch'iao and Sun Ch'eng-lieh, 211 pp.
CHINESE, bk, Kan-ch'ing Mung-mi Chiao-ts'o Ti-chu Mung-yeh Ch'u-hua Ch'u-pu Yen-chiu, JPRS 36077

Providing Spiritual Food for Revolution to Seamen, 7 pp.
CHINESE, per, Shui-yun, No 2, 7 Feb 1966, pp. 33-35.
JPRS 35874

Population and Economy of New Caledonia, by J. Beaujeu-Garnier, 7 pp.
FRENCH, per, Bulletin de L'association de Geographes Francais, Nos. 334-335, May-June 1965, pp. 2-12.
JPRS 36179

Review of Experiences At End of School Year, by Pham Quang Hieu, 7 pp.
VIETNAMESE, per, Giao Duc Cap II, No 6, Apr 1966, pp. 3-5 & 12.
JPRS 36102

Increasing Cultivation and Animal Husbandry Productivity and Increasing Labor Output in Agriculture, 13 pp.
VIETNAMESE, np, Nhan Dan, 10 May 1966, p. 2.
JPRS 36100

All-Army Congress of "Youths Resolved To Win", by P.V., 6 pp.
VIETNAMESE, np, Nhan Dan, 2 June 1966, p. 2.
JPRS 36108

Far East
Sociological (Contd)

Presidential Decree 57-3 (Concerning the Professions of Physician, Dentist, and Midwife), 35 pp.
VIETNAMESE, per, Hoi-San Hoi-Dong Quoc-Gia
Y-Si Doan Viet-Nam, 1965, pp. 4-44.
JPRS 36067

Ho Chi Minh's Opinion on the Use of Chinese Origin Words, by Hoang Van Hanh, 9 pp.
VIETNAMESE, per, Tap Chi Van Hoc, No 3, 1966, pp. 43-49.
JPRS 36102

LATIN AMERICA

Economic

New Sugar-Cane Strains Developed in Cuba, by Mario Hidalgo Gato, 11 pp.
SPANISH, per, Agrotecnia de Cuba, No 2, Apr-June 1965, pp. 4-11.
JPRS 36000

The Industrial Development of Cuba, 25 pp.
SPANISH, np, Cuba Socialista, May 1966, pp. 94-127.
JPRS 36090

Percentage Relationships between Crops and Cultivated Area in Venezuela, by Ramon Santa-ella, 21 pp.
SPANISH, per, GEA - Revista Venezolana de Geografia, Vol II, No 4, Jan-Dec 1962, pp. 25-39.
JPRS 36163

Cayo Largo Del Sur, by Victor Cassus, 6 pp.
SPANISH, per, Mar y Pesca, Apr 1966, pp. 5-11.
JPRS 36000

The Waters Surrounding Cuba, by Victor Boldanov, 8 pp.
SPANISH, per, Mar y Pesca, Apr 1966, pp. 12-15.
JPRS 36204

Latin America
Economic (Contd)

The Revolution Has Brought an Excellent Merchant Marine to Cuba: The Mambisa Lines, 8 pp.
SPANISH, per, Mar y Pesca, Apr 1966, pp. 22-25.
JPRS 36000

Stream Stocking: An Important Task under Way, by Vicente Cubillas, 5 pp.
SPANISH, np, Mar y Pesca, Apr 1966, pp. 34-40.
JPRS 36204

Batabano Roadstead, the Camilo Cienfuegos Fishermen's Cooperative, by Onelio Jorge Cardoso, 6 pp.
SPANISH, per, Mar y Pesca, Apr 1966, pp. 43-53.
JPRS 36000

Annual Shell Report Analysis of Oil Situation, by Jose Gerbasí, 5 pp.
SPANISH, np, El Nacional, 8 May 1966, p. D-6.
JPRS 36041

22nd Annual Assembly of Fedecamaras at Valencia, by Jose Gerbasí, 6 pp.
SPANISH, np, El Nacional, 15 May 1966, pp. D-6.
JPRS 36041

The Distribution of Savannas in Venezuela, by Mauricio Ramia, 5 pp.
SPANISH, per, Revista Venezolana de Geografia, Mar 1964, Vol IV, No 7, pp. 25-32.
JPRS 35989

Latin America
Political

Brazilian Communist Party Condemns Fidel Castro, 6 pp.
FRENCH, per, L'Humanite Nouvelle, Vol 2, No 18, May 1966, pp. 8, 10.
JPRS 35889

Fidel Castro Denounced as Revisionist by Pro-Chinese Belgian CP, by Jacques Grippe, 8 pp.
FRENCH, per, La Voix du Peuple, Vol 4, No 16, 22 Apr 1966, pp. 17, 20.
JPRS 35889

Communist Party in Colombia Seeks Union with Others for National Liberation Front, 6 pp.
SPANISH, per, Documentos Politicos, No 58, Mar-Apr 1966, pp. 1-7.
JPRS 36119

Ilanusa Discusses Cuban Participation in the Olympics, by Jose Solis, Marta Rojas and Luis Baez, 11 pp.
SPANISH, np, Granma, 11 Apr 1966, p. 9.
JPRS 35947

On the Anniversary of Che Guevara's Leave-Taking Letter, by Carmen Villar, 5 pp.
SPANISH, np, Juventud Rebelde, 2 Apr 1966, p. 7.
JPRS 36000

Argentine Communist Party
A. Ideological Struggle, 6 pp.
SPANISH, per, Nueva Era, Vol XVIII, No 4(135), May 1966, pp. 1-7.
JPRS 36230

Argentine Communist Party
B. Youth Movement, by Hector Santaren, 10 pp.
SPANISH, per, Nueva Era, Vol XVIII, No 4, May 1966, pp. 36-47.
JPRS 36230

Argentine Communist Party
C. Financial Campaign, by Felipe Mesrobian, 6 pp.
SPANISH, per, Nueva Era, Vol XVIII, No 4(135), May 1966, pp. 65-72.
JPRS 36230

Argentine Trotskyite Explains Tactics of the Single Front, by J. Posadas, 22 pp.
SPANISH, per, Voz Proletaria, Vol XVIII, No 441, 13 May 1966, pp. 4-7.
JPRS 36057

Latin America
Military

Military Service Law - Complete
PORTUGUESE, rpt. August 1964.
DIA 2809027866

The Cuban Military Units for Aiding Production, by Luis Baez, 6 pp.
SPANISH, np, Granma, 14 Apr 1966, p. 8.
JPRS 36204

Geographic

The Conquest of Amazonia Begins in Araguaia, by Oswaldo Amorim, 10 pp.
PORTUGUESE, per, O Cruzeiro, 20 May 1966, pp. 51-66.
JPRS 36041

Classification of the Venezuelan Andean Climatic Zones According to the Koeppen System, by Major Alberto Contramaestre Torres, 28 pp.
SPANISH, per, GEA -- Revista Venezolana de Geografia, Vol 1, No 3, Dec 1961, pp. 209-240.
JPRS 36166

Geomorphological, Geological and Topographical Description of Uruguay, by Jorge Chebataroff, 69 pp.
SPANISH, monograph, Tierra Uruguaya, 1960, pp. 51-132.
JPRS 35887

Sociological

Colombia to Request Thirteen Billion Peso Loan from International Organizations for Development, by Gabriel Ortis, 6 pp.
SPANISH, np, El Tiempo, Vol 56, No 18,997, 22 May 1966, pp. 1, 28.
JPRS 35989

SCIENTIFIC

Aerospace

Methods of Investigating the Vestibular Apparatus, by R. M. Bayevskiy.
RUSSIAN, rpt, Fiziologicheskiye Metody v Kosmonavtike, Chapter 10, 1965, pp 246-250.
NASA TT F-10,125

Cosmonaut Training and Selection Determined by Profession rather than Physical Condition, by N. Goruvskiy.
RUSSIAN, np, Izvestiya, No 70, p3, Cols 2-5, 1965, 25 Mar 1965.
*FTD-HT-66-427

Results of Physiological and Biochemical Examinations of Members of the Voskhod Space-ship Crew, by I. S. Balakhovskiy, P. V. Vasil'yev, I. I. Kas'yan, and I. G. Popov, 15 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, No 2, Mar/Apr 1966, pp. 212-220.
JPRS 36227

Energy Accumulator in Optimization Problems of Spaceflight With Limited Power, by G. L. Grodovskiy, et al.
RUSSIAN, rpt, Makopital' Energiy v Zadachakh Optimizatsii Kosmicheskogo Poleta s Ogranichennoy Moshchnost'yu, 1965, 27 p.
*NASA TT F-10,132

Spacecraft "Magnetic Walls", by A. Petrov.
RUSSIAN, per, Nauchno-Tekhnicheskiye Obshchestva SSSR, 1964, No 6, pp 60-61.
*FTD-HT-66-440

Radiation Safety During Space Flights, by V. G. Bobkov, V. P. Demin, et al, 416 pp.
RUSSIAN, bk, Radiatsionnaya Bezopasnost' pri Kosmicheskikh Poletakh, Moscow, 1964. 9231458-V
NASA TT F-356

The Effects of Space Flight Factors on the Function of the Central Nervous System, by N. N. Livshits, et al.
RUSSIAN, rpt, Vliyaniye Faktorov Kosmicheskogo Poleta na Funktsii Tsentral'nogo Mozgovogo Sistemy, 1966, 272 pp.
NASA TT F-413

Scientific Aerospace (Contd)

Description of Flight Exercises, by Piro Nace, 5 pp.
ALBANIAN, np, Ylli, Apr 1966, pp. 11-13.
JPRS 36235

Experimental Study of the Combustion of Ammonium Perchlorate Spheres in a Gaseous Fuel Flow, by L. Nadaud.
FRENCH, per, La Recherche Aerospatiale, No 108, 1965, pp 39-51.
Dept of Navy Tr 4747/APL/JHU T-1816

Linear Pyrolysis rate of Ammonium Perchlorate in a One-Dimensional Flow, by M. Guinet
FRENCH, per, La Recherche Aerospatiale, No 109, 1965, pp 41-49.
Dept of Navy Tr 4745/APL/JHU T-1791

New Technologies and the Utilization of Space Research, by O. Bauschinger.
GERMAN, rpt, Paper Presented at a Symposium on the Utilization of Space Research, Held in Cologne, May 14, 1966, 22 pp.
*NASA TT F-10,191

Agriculture

The Temperature Regime of Soils, by A. M. Shul'gin.
RUSSIAN, bk, 1965, 218 pp.
NLL

A Decree on Land Melioration, 5 pp.
RUSSIAN, np, Izvestiya, 28 May 1966, p. 1.
JPRS 36099

On the Properties of Potato Starch Irradiated in Gaseous Media, by I. I. Putilova, et al.
RUSSIAN, per, Iz VUZ Pischhevaya Tekhnologiya, No 1, 1966, pp 48-52.
*ACSI J-0236
ID 2204034266

Cybernetics in Agriculture, by A. F. Chudnovskiy, et al.
RUSSIAN, bk, Kibernetika v Sel'skom Khozyaistve, 1965, 152 pp.
NLL R 39784

Scientific
Agriculture (Contd)

The Absolute Abundance of the Perch and
Its Ichthyomass in Small Lakes, by
E. V. Burmakin,
RUSSIAN, per, Trudy Soveshchani,
Vyp 13, 1961, pp 235-237.
Dept of Inter No
SH211 L9 N.s. No 55

Syrian Agriculture, 16 pp.
ARABIC, np, Al-Iotisadi al-'Arabi, 4 May 1966,
pp. 20-26.
JPRS 36075

Automation Problems in Agriculture, by Stoil
Stankev, 5 pp.
BULGARIAN, per, Mekhanizatsiya i elektrifikatsiya,
No 5, May 1966, pp. 18-19.
JPRS 36133

Major Concepts of Modern Preservation of
Food Products, by F. Kuprianoff,
CZECH, per, Prumysl Potravin, No 4,
1966, pp 195-197.
*ACSI J-0316
ID 2204036966

Determination of a Quality Parameter for
Rye (Bread), by R. Heckel, 9 pp.
GERMAN, per, Die Lebensmittel-Industrie,
Vol XIII, No 3, 1966, pp 100-105.
ACSI J-0314
ID 2204036766

Agricultural Acaridicide Composite,
by Taniguchi, Takuzo, 7 pp.
JAPANESE, Patent No 8147, 5 Jun 1963.
SA Code-P-303

Prognoses of the Appearance of Some Plant
Diseases and Pests in Poland in 1966, by F.
Kagan, Dr. K. Piekarczyk and A. Studzinski,
11 pp.
POLISH, per, Nowe Rolnictwo, Vol 15, No 8,
16-30 Apr 1966, pp. 20-22.
JPRS 36072

The Classification of Slaughter Animals,
by Dr. Witold Buchwald, 7 pp.
POLISH, per, Nowe Rolnictwo, Vol 15, No 8,
16-30 Apr 1966, pp. 26-28.
JPRS 36072

Scientific
Agriculture (Contd)

Actual Possibilities for Expansion of Animal
Husbandry 1966-1970, by Antoni Leopold, 5 pp.
POLISH, per, Zycie Ekonomiczne, No 22, 29
Mar 1966, p. 6.
JPRS 36131

Perspectives of Scientific Research in Zoo-
technology, by Vasile Herdea, 6 pp.
RUMANIAN, per, Lupta de Clasa, Vol 46, No 4,
Apr 1966, pp. 95-99.
JPRS 36037

Current Tasks of Agricultural Research, by N.
Giasan, 10 pp.
RUMANIAN, per, Probleme Agricole, No 3, Mar
1966, pp. 4-12.
JPRS 36084

Problems in the Improvement of Agricultural
Management and Planning, by Barbu Popescu,
12 pp.
RUMANIAN, per, Probleme Agricole, No 3, Mar
1966, pp. 13-22.
JPRS 36131

Scientific Research and Technological Advances
in Agriculture, by Dr. Irimie Staicu, 5 pp.
RUMANIAN, per, Romania libera, Vol XXIX,
No 6695, 26 Apr 1966, pp. 1, 3.
JPRS 36072

Food Preservation by Irradiation, I. Evolution and
Present Status in the World, by M. Del van Cob,
Nicasio Ortin Sune. 63 pp.
SPANISH, rpt, Conservacion de Alimentos por
Irradiacion. I. Evolucion y Estado Actual en el
Mundo, Madrid, 1965, 9233280-V
AEC-tr-6690

Scientific
Biological & Medical Sciences

Photosynthetic Bacteria, by E. N. Kondrat'eva.
RUSSIAN, bk, 1965, 243 pp.
NLL

The Role of DNA in the Differentiation of Somatic Cells in the Embryogenesis of Higher Vertebrates, by Yu. A. Magakyan, 5 pp.
RUSSIAN, per, Akademii nauk Armyanskoy SSR -- Biologiya, Vol 19, No 2, 1966, pp. 21-25.
JPRS 36074

The Problem of the Continuous Cultivation of Microorganisms -- Producers of Antibiotics, 18 pp.
RUSSIAN, per, Antibiotiki, Vol IX, No 7, 1964, pp 565-572.
CFSTI TT-66-10885

Inhibition of Replication of Venezuelan Equine Encephalomyelitis Virus with Use of Puromycin, by V. M. Zhdanov, F. I. Ershov, 9 pp.
RUSSIAN, per, Antibiotiki, Vol X, No 3, 1965, pp 255-259.
CFSTI TT-66-60875

Structural Organization of the Intracardial Nervous Apparatus, by I. A. Chervova, 15 pp.
RUSSIAN, per, Arkhiv Anatom, Gistolog i Embriol, Vol XLVIII, No 2, 1965, pp 60-67.
CFSTI TT-66-60322

Post-Mortem Angiography in Pulmonary Hypertension, by G. S. Kryuchkova, 12 pp.
RUSSIAN, per, Arkhiv Patol, Vol XXVI, No 12, 1964, pp 52-58.
CFSTI TT-66-60323

Certain Mechanical Magnitudes of Perception Characteristic of An Animal Organism, by O. G. Gerasenko, N. A. Chakhovskiy.
RUSSIAN, per, Avtometriya, No 2, 1965, pp 11-17.
*NASA TT F-10,138

Talks on Nutrition, by A. A. Pokrovskiy, 223 pp.
RUSSIAN, bk, Besedy o pitanii, 1964, pp. 1-290.
JPRS 35946

Bioacoustics of Fish, by V. R. Protasov, 214 pp.
RUSSIAN, bk, Bioakustika Ryb, 1965, pp. 3-297.
JPRS 35976

Scientific
Biological & Medical Sciences (Contd)

Effects of Acridine Orange and Safranin on Kinetics of the Enzyme-Substrate Complex of Actomyosin, by E. A. Burshtein, R. G. Lyudkovskaya, et al.
RUSSIAN, per, Biofiz, Vol X, No 2, 1965, pp 217-221.
CFSTI TT-66-60870

Determination of the Quality of Gluten by its Physico-Chemical Properties, by A. B. Vakar.
RUSSIAN, per, Biokhimiya Zerna, No. 7, 1964, pp 3-62.
NLL RTS 2903

The Condition of Amylase in the Processes of Ripening and Germination of Wheat Grain, by T. B. Darkanbaev.
RUSSIAN, per, Biokhimiya Zerna, No 7, 1964, pp 144-150.
NLL RTS 2904

Sensual (Philos: Cognition/Epistemology Knowledge), by F. I. Georgiev, V. I. Dubovskoy.
RUSSIAN, bk, Chuvstvennoe Poznaniye, 1965, pp 1-237.
*FTD-HT-66-431

Pleuston Biocenosis of Siphonophora by A. Savilov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CX, No 3, 1956, pp 476-479.
Dept of Inter No
GCI E57 No 51.

Studies on Work Fitness and Work Arrangements, by P. A. Makhavetskiy, 18 pp.
RUSSIAN, bk, Ekspertiza trudosposobnosti i trudooustroystvo pri nervnykh i psikhicheskikh zabolevaniyakh, 1965,
JPRS 36164

The Teratogenic Action of Triparanol, A. I. Yakovleva, N. G. Shakhnazarova, 9 pp.
RUSSIAN, per, Farmakol i Toksikol, Vol XXVIII, No 1, 1965, pp 108-111.
*FTSI TT-66-60406

Scientific
Biological & Medical Sciences (Contd)

Effect of Local Anesthetics on Adenosine Triphosphatase Activity of Brain Tissue, by N. I. Kuzhman, E. A. Bisyarina, et al. RUSSIAN, per, Farmakol i Toksikol, Vol XXVIII, No 2, 1965, pp 228-230. CFSTI TT-66-60894

Physiological Principles of Conditioning of a Human Organism, by M. Ye. Marshak, 136 pp. RUSSIAN, bk, Fiziologicheskiye Osnovy Zakalivaniya Organizma Cheloveka, 1965, 2nd Edition, pp. 1-151. JPRS 35864

Variations of Blood Sugar and Lactic Acid Levels in Athletes Performing Standard Tasks with the Establishment of Good Form, by N. N. Yakovlev, A. F. Krasnova. RUSSIAN, per, Fiz Zhur, Vol XLVIII, No 10, 1962, pp 1265-1269. NLL RTS-2885

The Effect of Ultrasound and High-Frequency Noise on the Blood Sugar Level, by Z. Z. Ashbel', 5 pp. RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniye, No 2, 1965, pp. 29-32. JPRS 36252

The Toxic Properties of Hexafluorodichlorocyclopentane, by L. V. Buevich, E. R. Uzhdavini, 18 pp. RUSSIAN, per, Gigi Truda i Profession Zabol, Vol IX, No 5, 1965, pp 39-44. CFSTI TT-66-60895

Analysis of Bronchoscopic Symptoms of Pulmonary Cancer with a Digital Electronic Computer, by G. I. Lukomskiy, Yu. V. Surin, A. L. Brudno, A. S. Kronrod and P. Ye. Kunin, 8 pp. RUSSIAN, per, Grudnaya Khirurgiya, No 2, pp. 74-79. JPRS 36162

The History of the Blind, by A. G. Tomilin. RUSSIAN, bk, Istoriya Slepogo Kashalota, Moskva, 1965, pp 1-191. *FTD-HT-66-434

A Mathematical Method of Taxonomy, by P. Gambaryan. RUSSIAN, per, Iz Ak Nauk Arm SSR, Biol Nauk, Vol XVII, No 12, 1964, pp 47-53. NLL RTS-3101

Scientific
Biological & Medical Sciences (Contd)

Problems Concerning the Physical and Physico-chemical Basis of Muscular Contraction, by G. M. Frank. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Biol, Vol XXX, 1965, pp 335-359. CFSTI TT-66-60897

Motor Function of the Dorsal (Isolated) and Ventral Blind Projections in the Rumen of the Multi-Chambered Stomach, by P. I. Zherebtsov, V. F. Vraikin. RUSSIAN, per, Izvestiya Timiryazev Sel'akad, No 1, 1962, pp 153-166. NLL RTS 2911

Research into Buffalo Milk Fat and Its Fractions, by G. V. Tverdokhlev, et al. RUSSIAN, per, Iz VUZ Pishchevaya Tekhnologiya, No 1, 1966, pp 25-30. *ACSI J-0182 ID 2204032966

Chemical Dosimetry of Ionizing Radiations, by A. M. Kabakchi, Ya. I. Lavrentovich, et al. 162 pp. RUSSIAN, bk, Khimicheskaya Dozimetriya Ioniziruyushchikh Izlucheniye, Kiev, 1963, pp 1-76; 86-92; 105-135. 9700461-V FTD-TT-65-420

The Functional State of the Adrenal Cortex and its Potential Reserves during Acth Stimulation in Patients with Peptic Ulcer, by E. V. Andrukhiv, 7 pp. RUSSIAN, per, Klini Medit, Vol XLII, 1964, No 5, pp 71-75. NLL RTS-2993

Effect of Anticoagulants on Vascular Permeability in Myocardial Infarction and Angina Pectoris, by V. G. Chistyakova, 11 pp. RUSSIAN, per, Klini Medit, Vol XLIII, No 3, 1965, pp 68-72. CFSTI TT-66-60418

Functional State of the Cardiovascular System in Women Working in Spinners, by I. I. Filatov, 10 pp. RUSSIAN, per, Klini Medit, Vol XLIII, No 3, 1965, pp 72-75. CFSTI TT-66-60419

Combined Effect of Space-Flight Factors on Certain Functions of an Organism, by G. M. Frank, N. N. Livshits, 81 pp. RUSSIAN, rpt, Kombinirovannoye Vozdeystviye Faktory Kosmicheskogo Poleta na Nekotoryye Funktsii Organizma, 14-18 Jun 1965, 61 pp. 9233102 AEC UCRL-Trans-1232

Scientific
Biological & Medical Sciences (Contd)

Investigation of the Use of Sorbic Acid for the Preservation of Fruit and Vegetable Products, by Ya. Osin'ska, L. Kosevska.
RUSSIAN, per, Konserv. Ovoshch. Prom., Vol 20, No 6, 1965, pp 34-36.
NLL Ref: 5828.4 1965 (5803)

Species Composition and Quantitative Distribution of the Zooplankton off South-West Greenland, E. A. Pavshchik.
RUSSIAN, rpt, Materials of the Session of the Scientific Council of PINRO on the Results of Investigations Carried out in 1962-63, Murmansk, 1964.
Dept of Inter No
SH211 L9 n.s. no 58

Methodological Problems of Health and Medical Statistics, by A. M. Merkov, 203 pp.
RUSSIAN, bk, Metodologicheskiye Voprosy Sanitarnoy i Meditsinskoy Statistiki, 1965, pp. 1-228.
JPRS 36231

The Influence of Low Temperature on Microorganisms. II. The Influence of Low Temperature on the Development of Moulds, by F. M. Chistyakov, Z. Z. Bocharova.
RUSSIAN, per, Mikrobiologiya, Vol VI, No 9-10, 1957, pp 1293-1309.
*NASA TT F-10,144

Influence of Low Temperatures on the Development of Microorganisms. III. Influence of Low Temperatures on the Development of Bacteria and Yeasts, by F. M. Chistyakov, G. L. Noskova.
RUSSIAN, per, Mikrobiologiya, Vol VII, No 5, 1958, pp 565-578.
NASA TT F-10,142

The Influence of Low Temperature on the Development of Microorganisms. IV. The Influence of Low Temperature on the Development of Moulds, by F. M. Chistyakov, Z. Z. Bocharova.
RUSSIAN, per, Mikrobiologiya, Vol VI, No 7, 1956, pp 838-842.
*NASA TT F-10,145

Growth of Bacteria of Natural Rubber, by R.J.A. Hendry, 15 pp.
RUSSIAN, per, Mikrobiol, Vol XXI, No 2, 1952, pp 146-154.
RAPRA

Scientific
Biological & Medical Sciences (Contd)

An Evaluation of Contemporary Parapsychology, by P. Simonov, 10 pp.
RUSSIAN, per, Nauka i Zhizn', No 4, Apr 1966, pp. 54-58.
JPRS 35969

Biometric Studies of the Cimmerian Representatives of Genus Viviparus, by V. Ya. Taboyakova.
RUSSIAN, per, Paleontolog Zhur, No 2, 1960, pp 97-109.
NLL RTS-3154

Immunological Indices from Histomorphologic Study of Liver of Rats of Various Ages Subjected to Combined Influence of Carbon Tetrachloride and Hepatocytotoxic Mitochondrial Serum, by S. A. Korol, G. A. Rodionov, 25 pp.
RUSSIAN, per, Patol Fiziol i Eksperimen Terap, Vol IX, No 2, 1965, pp 54-60.
CFSTI TT-66-60896

The Investigation of Biological Systems with Many Variable Characteristics, by L. K. Vykhandu.
RUSSIAN, per, Primenenie Matematicheskikh Metodov v Biology, Vol 3, 1964, pp 19-22.
NLL RTS 2881

The Phenomenon of Nuclear Fragmentation of Monocytes in the Diagnosis of Atypical Forms of Infectious Mononucleosis, by K. Mushetsyanu, V. Mushetsyanu, 6 pp.
RUSSIAN, per, Problemy Gematol i Perelivan Krovi, Vol X, No 2, 1965, pp 35-36.
CFSTI TT-66-60314

Problems in Aerospace Medicine; Data on the Conference Held 24-27 May 1966, by V. V. Parin.
RUSSIAN, bk, Problemy Kosmicheskoy Konferentsii Materialy Konferentsii (24-27 May 1966), Moscow, 1966, 414 pp.
*JPRS/DC-12459

Problems of Space Medicine, by V. V. Parin, RUSSIAN, bk, Problemy Kosmicheskoy Meditsiny, Moscow, 1966, 416 pp.
*NASA TT F-440

Drugs for Radiation Protection, by L. A. Tiunov, G. A. Vasil'yev, et al. 581 pp.
RUSSIAN, bk, Protivoluchevyye Sredstva, 1964, 9700463-V
FTD-TT-65-556

Scientific
Biological & Medical Sciences (Contd)

Effect of Common Salt Solution Upon
the Gastric Secretion in Pigs,
by A. N. Cheredkova.
RUSSIAN, per, Sbornik Rabot Leningrad
Vet. Inst., Vol 19, 1959, pp 188-194.
NLL RTS 2929

Changes in the Submicroscopic Structure of
Cells of Walker's Carcinoma during its Regres-
sion Induced by Sarvolysine,
by V. G. Proshchenko, 21 pp.
RUSSIAN, per, Sovet Medit, Vol XXVIII, No 5,
1965, pp 80-84.
CFSTI TT-66-60869

Characteristics of Disturbances of Vascular
Tone in Man following Chronic Irradiation,
by V. P. Zhmurkin, E. A. Denisova, et al, 12 pp.
RUSSIAN, per, Terapev Arkhiv, Vol XXXVII, No 2,
1965, pp 46-51.
CFSTI TT-66-60318

Use of a Metopirone Test to Investigate
the Function of the Hypophysis--Adrenal
Cortex System in Patients Receiving Prolonged
Corticosteroid Therapy, by E. V. Fleishman.
RUSSIAN, per, Terapev Arkhiv, Vol XXXVII,
No 2, 1965, pp 75-80.
CFSTI TT-66-60319

Investigations of Control Processes
in Living Organisms and Ways of Creating
New Cybernetic Systems, by M. A. Khvedelidze.
RUSSIAN, per, Trudy Instituta Kibernetiki,
AN Gruzii, 1963, Vol 1, pp 169-190.
*72D-M-66-66

Zooplankton of the Dniester and its
Changes under Conditions of the Dubossary
Reservoir, by V. D. Grimal'skiy.
RUSSIAN, per, Trudy vi Soveshchaniya
Po Probl. Biolog. Vnutrennikh Vod,
1959, pp 365-370.
NLL RTS 2929

Special Features of the Formation of the
Hydrobiological Regime in Dubossary
Reservoir, by M. F. Yaroshenko, A. I.
Naberezhnyi.
RUSSIAN, per, Trudy vi Soveshchaniya
Po Probl. Biolog. Vnutrennikh Vod,
1959, pp 371-377.
NLL RTS 2928

Scientific
Biological & Medical Sciences (Contd)

The Quantitative Distribution of Plankton
in Southeastern Bering Sea in the Summer
of 1958 and 1959, by I. M. Meshcheriakova.
RUSSIAN, per, Trudy Vses Nauchno-
Issledovatel'skogo Instituta Rybnogo
Khoziaistvo i Okeanografii, 49, Vol LI,
pp 141-150, 1964
Dept of Inter No
ACS E57 No 174

Effect of Certain Forms of Nitrogen on the
Productivity of *Scenedesmus Quadricauda* (Turp),
by L. H. Lytvynenko, O. H. Volovsk.
RUSSIAN, per, Ukrains Botan Zhur, Vol XIX, No 3,
1962, pp 28-33.
NLL RTS-2256

The Tasks and Research Programme of the
New Scientific Council, by V. N. Sukachev.
RUSSIAN, per, Vestnik Akademii Nauk SSSR,
No 10, 1965, pp 55-57.
NLL Shelfmark: 0026 Holding 1942-

Accumulation of Glutamine by Tumors and its
Incorporation into Proteins of Tumor and
Normal Cells, by K. A. Perevoshchikova,
A. P. Belusov, et al.
RUSSIAN, per, Voprosy Medit Khim, Vol XI, No 2,
1965, pp 32-36.
CFSTI TT-66-60889

Natural Forms and Mechanism of Action of Folic
Acid and Participation of Vitamin B12 in this
Mechanism, by A. V. Trufanov.
RUSSIAN, per, Voprosy Medit Khim, Vol XI, No 3,
1965, pp 3-10.
CFSTI TT-66-60899

Acclimatization to the Far North, by G. M.
Danishevskiy, 5 pp.
RUSSIAN, per, Zdorov'ye, No 4, 1966, pp. 4-5.
JPRS 36229

Matort-Produced Diet for Cattle,
by Heinz Wetterau, 4 pp.
GERMAN, per, Urania, No 3, 1966, pp 29-31.
ACSI J-0181
ID 2204032866

Scientific
Biological & Medical Sciences (Contd)

Life Span of Plants and their Organs,
by N. I. Dubrovitskaya.
RUSSIAN, per, Uspekhi Sovremennoi Biologii,
Vol 43, No 1, 1957, pp 104-114.
NLL RTS 2956

New Data Relating to the Biology of the Cau-
casian Goby--*Pomatoschistus caucasicus*
(KAWRAJSKY) Berg--from the Foredelta of the
Volga, by A. F. Koblitskaya.
RUSSIAN, per, Voprosy Ikhtiolog, Vol I, No 2(19)
1961, pp 253-261.
NLL RTS-3108.

Conference on Biological Principles of Use
of Fish Reserves in Reservoirs of Central
Asia and Kazakhstan, by N. Z. Khusainova,
5 pp.
RUSSIAN, per, Voprosy Ikhtiologii, Vol 6,
No 1 (38) 1966, pp. 186-188.
JPRS 35816

Investigation of the Free Amino Acids and
Phosphorus Fractions of the Blood After
Administration of Streptomycin and Phthivazid,
by M. A. Chertkova, Zh. Z. Kharakter.
RUSSIAN, per, Voprosy Medit Khim, Vol XI, No 3,
1965, pp 40-45.
CFSTI TT-66-60865

Electrophoretic Separation of Proteins of
Human Mammary Gland Tumors, by A. N. Parshin,
T. A. Goryukhina, et al.
RUSSIAN, per, Voprosy Onkolog, Vol XI, No 5,
1965, pp 40-43.
CFSTI TT-66-60888

Induction of Tumors of the Spinal Meninges
of Rabbits by Radioactive Cobalt,
by I. D. Dimant, G. M. Loktionov, et al, 34 pp.
RUSSIAN, per, Voprosy Onkolog, Vol XI, No 5,
1965, pp 46-54.
CFSTI TT-66-60367

Hygienic Assessment of a New Type of
Margarine, by N. N. Aleksandrova, et al.
RUSSIAN, per, Voprosy Pitaniya, No 2,
1966, pp 68-71.
*ACSI J-0237
ID 2204034366

Occupational Pathology, by A. P. Shitakova,
21 pp.
RUSSIAN, bk, Voprosy Profpatologii, pp. 169-
175; 176-182; 183-187;
JPRS 36192

Scientific
Biological & Medical Sciences (Contd)

The Antibody Accumulation Rate in Man
in Early Stages After Vaccination and
Revaccination Against Tick-Born Encep-
halitis, by M. P. Chumakov.
RUSSIAN, per, Voprosy Virusologii, No 5,
1964, pp 601-604.
NLL RTS 2910

Etiology of the 1965 Influenza Epidemic, by
V. D. Solov'yev, N. R. Gutman, L. I. Neklyudova,
A. A. Pichkovskaya and G. S. Churkin, 9 pp.
RUSSIAN, per, Voprosy Virusologii, No 2, Mar/
Apr 1966, pp. 197-202.
JPRS 36025

Perception and the Conditioned Reflex,
by Evgenii Nikolayevich Sokolov, 309 pp.
RUSSIAN, mono, Vospriyatie i Uslovnii
Refleks, Moscow, 1958, 330 pp.
NACN

Study of Immunologic Properties of Rickettsia
Prowazeki Soluble Antigen. Rept. II, Isolation
of Soluble Antigen Rickettsia Prowazeki by
Means of Deae-Cellulose and its Immunologic
Significance, by E. P. Lukin, N. N. Vasilev,
et al, 18 pp.
RUSSIAN, per, Zhur Mikrobiol Epidemiol i Immuno-
biol, Vol XLII, No 5, 1965, pp 114-119.
CFSTI TT-66-60898

Formation of the Zooplankton and Bottom
Fauna of Simferopol Reservoir in the Crimea,
by G. B. Melnikov, I. P. Lubyantov.
RUSSIAN, per, Zool Zhur, Vol XXXVII, No 6,
1958, pp 820-831.
NLL RTS-2998

A New Model of volumenometer for Rapid
and Precise Plankton Volumetric Determination
Under Field Conditions, by V. A. Iashnov.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol XXXVIII,
(11) 1959, pp 1741-1744.
Dept of Inter No
GCI ES7 No 50

Changes in the Fauna of Lake Arpilich as
a Result of its Conversion into a reservoir,
by T. M. Meshkova.
RUSSIAN, per, Zoologicheskii Zhurnal,
Vol 39, No 11, 1960, pp 1597-1606.
NLL RTS 2996

Scientific
Biological & Medical Sciences (Contd)

Entomological, Ornithological, and
Hydrobiological Research,
RUSSIAN, per, Zoologicheskii Zhurnal,
Vol XLIII, No 2, 1964.
Dept of Inter No
AS36 US4 24198

Serological Examinations in Immunisation
Research for the Prevention of Red Fever in
Pigs, by O. Zak, A. Zuffa, et al, 18 pp.
Czech, per, Veterinarstvi, Vol XIV, No 4, 1964,
pp 162-166.
CFSTI TT-66-10926

On the Purification of Anti-Diphtheria and Antitetanus
Plasma, by A. J. van Triet, 35 pp.
DUTCH, rpt, Delft Univ. Doctoral Thesis, 1957, pp 11-41;
92, 93.
CFSTI TT-66-10937

Spawning Ground Catalog of the Kvichak
River System, Bristol Bay, Alaska.
Compiled by Robert L Demory.
FRENCH, rpt, 1964, 292 pp.
Dept of Inter No
SK 361 A2S7f No 488

First Clinical Report on a G 246,
by G. Laborit, 21 pp.
FRENCH, per, Agressologie, Vol VI, 1965,
pp 505-515.
CFSTI TT-66-10988

Clinical Applications of the Measurement of
Aldosterone Secretion by a Method of Double
Isotope Dilution, by F. Thervet,
A. Salas, et al.
FRENCH, per, Annales d Endocrinologie,
Vol XXVI, No 2, 1965, pp 161-167.
CFSTI TT-66-10739

Some Aspects of Sensory-System Activity
in Application to Problems of Space Physiology,
by V. D. Glezor, V. A. Kislyakov, 29 pp.
FRENCH, rpt, International Symposium on Basic
Environmental Problems of Man in Space,
1965. 9233073
ABC UCRL-TR-1233

Bariolitos, by C. do P. Valladares, 8 pp.
FRENCH, per, Revista Brasileira de Gastroen-
terologia, Vol II, No 6, 1950, pp 595-608.
CFSTI TT-66-10994

Scientific
Biological & Medical Sciences (Contd)

Examining and Operating Chair, by Paul Chavanon,
4 p.
FRENCH, pat, Patent No 628,965.
Dept of Comm
Patent Office

Improved Chairs used in Surgery, by Eduard Jos-
eph Guyot, 5 p.
FRENCH, pat, Patent No 631,954.
Dept of Comm
Patent Office

Man and Mammoth in Mexico, by
Helmut, De Terra.
GERMAN, rpt, 1957, 191 pp.
Dept of Inter
No 679.9(300) T27m

A Contribution to the Therapy of Ulcus Cruris
in Practice, by G. Pfeifer, 5 pp.
GERMAN, per, Deutsches Medizinisches Journal,
Vol XVI, No 1, 1965, pp 22-26.
CFSTI TT-66-10741

Energy Balances of Persons Without
Physical Activity and Concentrated Rations,
by Von W. Wirths. 14 pp.
GERMAN, per, Int. Z. Angew Physiol
Einschl Arbeitsphysiol, Vol XXI, 1965,
pp 230-246.
ACSI J-0106
ID 2834008866

Report of the RBE Committee to the International
Commission for Radiation Protection and for
Radiological Units and Measurements.
GERMAN, per, Kernenergie, Vol VII, No 10,
1964, pp 181-203.
*FTD-HT-66-438

Hereditary Diabetes in Animal Experiments,
by W. Schweisheimer, 5 pp.
GERMAN, per, Medizinische Klinik, Vol LX, No 31,
1965, pp 1252-1253.
CFSTI TT-66-11080

Recent Views on the Drug-Receptor Relation. Pt II.
Conclusion, by W. Haseley, 13 pp.
GERMAN, per, Schweizerische Medizinische Wochensh.
Vol XCV, No 14, 1965, pp 460-466.
CFSTI TT-66-10740

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

Magnetism and Orientation of European Robin (*Erithacus Rubecula*) in Migratory Unrest, by F. W. Merkel, W. Wiltshko, 9 pp.
GERMAN, per, die Vogelwarte, Vol XXIII, 1965, pp 71-77.
CFSTI TT-66-11083

The Effect of Light on the Ketosteroid Excretion, by E. Wallner, M. Keresesi, et al. 11 pp.
HUNGARIAN, per, Acta Chirurgica (Academiae Scientiarum Hungaricae), Vol 4, No 3, 1963, pp 181-188. 9700959
FTD-TT-65-1867

Development of Veterinary Internal Medicine over the Past 20 Years in Hungary, by Dr. Prof. Zoltan Horvath, 11 pp.
HUNGARIAN, per, Magyar Allatorvosok Lapja, No 3, 1966, pp. 97-100.
JPRS 36193

Progress in the Departments of Anatomy and Histology over the Past Twenty Years, by Dr. Gyula Kovacs and Dr. Gyorgy Feher, 11 pp.
HUNGARIAN, per, Magyar Allatorvosok Lapja, No 3, 1966, pp. 102-105.
JPRS 36150

Possibility of Activating the processes of Hepatic Conjugation and Excretion of Bilirubin by means of Some Drugs. Experimental Studies with Nicotinic Acid Diethylamide (Coramine) and Phenylethylbarbituric Acid, by P. Careddu, 9 pp.
ITALIAN, per, Minerva Medica, Vol LV, No 69, 1964, pp 2539-2562.
CFSTI TT-66-10856

Use of Radioactive Krypton (⁸⁵Kr) in the Study of Ventilatory Uniformity and Distribution of Perfusion in Separate Lungs. I. Presentation of the Method, by A. Cellorino, R. Catolla Cavalcanti, 26 pp.
ITALIAN, per, Minerva Nucl, Vol IX, 1965, pp 160-171. 9233077
AEC NP-TR-1382

Immunizing Activity of the Combined Streptococcus Agalactiae and Staph Aureus Vaccine against Experimental Staphylococcal Infection of Mice, by F. Negretti, 6 pp.
ITALIAN, per, Societa Italiana delle Scienze Veterinarie, Ann. Vol XVII, 1964, pp 765-768.
CFSTI TT-66-10923

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

On the Chemical Conversion of Atropine in the Liver; Pharmacological Action of Atropine Oxidized to Aldehyde (atropanal). by K. Matsuda.
JAPANESE, per, Jap. Journal of Medical Sciences, Vol 13, No 4, 1940, pp 4-5 No.1/2.
NLL Ref: 3542 1965 (T 114 G)

Radiation Effect on Intestinal Function (I) Studies on Rabbits Intestinal Damage by Abdominal Window Method, by Osamu MATSUOKA, Takehiko TSUCHIYA, et al.
JAPANESE, per, Nippon Act. Radiol, Vol 24, No 2, May 1964, pp 157-162. 9233268
AEC NSJ-tr-44

Effects of Gamma-irradiation on Tulip (II) Effects on Various Stages of the Development, by Hisao MATSUBARA, Shozo IBA, et al.
JAPANESE, rpt, Tokyo Metropolitan Isotope Centre, Ann. Rept, No 2, 1963, pp 157-162. 9233270
AEC NSJ-tr-53

Research Work Done at Elevated Temperature in an Unventilated Environment, by W. Liberson, P. Marques.
SPANISH, per, Le Travail Humain, Vol II, 1934, pp 39-69.
NASA TT F-10,122

Results of First Clinical Trials of CIBA 32,644-aa in the Therapy of Vesical Bilharziasis, by C. R. Lambert, F.S.Da. Cruz Ferreira.
SWISS, per, Bulletin of World Health Organization, Vol XXXII, No 1, 1965, pp 73-82.
CFSTI TT-66-10989

Investigations about the Fibre Connections Between Diencephalon and Mesencephalon of the Cat, by V. Bucher, S. Buerki.
SWISS, per, Confina Neurologica, Vol VI, 1944, 1945, pp 317-340.
CFSTI TT-66-10863

Enzymatic Determination of Ketone Bodies in Blood, by H. U. Bergmayer, E. Bernt.
SWISS, per, Enzymologia Biologica et Clinica, Vol V, No 2, 1965, pp 65-76.
CFSTI TT-66-10884

Scientific
Biological & Medical Sciences (Contd)

Physical Experiments concerning the Sense of Equilibrium of Man, by E. Mach, 19 pp. SWISS, per, Mathematischnaturwissenschaft Klasse Sitzungsberichte Ak der Wissenschaft, Vol LXVIII, No 8, 1873, pp 124-140. CFSTI TT-61-14722

Tuberculosis Prevention: Vaccination or Chemoprophylaxis, by H. Bloch, 8 pp. SWISS, per, Paediatriche Fortbildungskurse fuer die Praxis, Vol X, 1964, pp 53-62. CFSTI TT-66-10855

Clinical Results of Treatment with Locacorten, by D. Jenny, 14 pp. SWISS, per, Therapeutische Umschau und Medizinische Bibliographie, Vol XXII, No 8, 1965, pp 410-417. CFSTI TT-66-10858

Reflexograph -- A Device for the Study of Human Higher Nervous Activity, by K. O. Shkabar, Ye. A. Rushkevych, V. V. Korneyev, and O. Ya. Mazurenko, 7 pp. UKRAINIAN, per, Fiziologichnyy zhurnal, Vol XII, No 2, Mar-Apr 1966, pp. 269-272. JPRS 36165

Chemistry

Prevention of Sedimentation in Petrochemicals, by G. A. Babalyana, ed. RUSSIAN, bk, Bor'ba s Otlozheniyami Parafina, 1965, 340 pp. NLL R 40234

Study of the Formation of Polybenzimidazoles by V. V. Korshak, et al. RUSSIAN, per, Dokl Akad Nauk SSSR, Vol CXLIX, No 1, 1963, pp 104-106. *NASA TT F-10,174

Chemical Concentration of Ores, by A. S. Chernyak. RUSSIAN, bk, Khimicheskoe Obogashchenie Rud, 1965, 203 pp. NLL R 40058

Stabilization of Polysiloxanes by Antioxidant Additives, by R.I. Kobrova, G.S. Tubyanskaya, et al. 8 pp. RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Masel, No 9, 1964, pp 53-56. 9700216 FTD-TT-65-1845

Scientific
Chemistry (Contd)

Some Problems of Heat Calculations for Batch Reactors for the Manufacture of Alkyd Resins, by E. B. Manusov et al. RUSSIAN, per, Lakokrasoch. Material. i Primen., No 1, 1965, pp 56-63. NLL R: 5828.4F 1965 (5806)

Mechanization and Automation in the Glucose Industry, by A. I. Asanov et al. RUSSIAN, bk, Mekhanizatsiya i Avtomatizatsiya v Krakhmalopatochnoi Promyshlennosti, 1965, 184 pp. NLL R 39827

Nature of the MgO and Al₂O₃ Conductivity, by V. P. Luzgin, et al. RUSSIAN, per, Ogneupory, Vol XXX, No 4, 1965, pp 42-44. NASA TT F-10,093

On Microseismic Sources, by T. A. Proskuryakova. RUSSIAN, per, Rezultaty Issled. po Programme Mez. Geofiz. Goda, Razdel 12, No 6, 1965, pp 23-30. NLL Ref: 6113.199 1965 (88)

Wave Structure of Microseisms, by L. N. Rykunov, V. V. Sedov. RUSSIAN, per, Rezultaty Issled. po Programme Mez. Geofiz. Goda, Razdel 12, No 6, 1965, pp 31-36. NLL Ref: 6113.199 1965 (89)

The Structure of Shock Waves in Air With Account Being Taken of the Kinetics of Chemical Reactions and the Excitation of Molecular Vibrations of Nitrogen, by S. N. Anisimov, N. M. Kuznetsov, et al. RUSSIAN, per, Teoreticheskaia i Prikladnaya Aerodinamika, Vol II, No 3, 1964, pp 337-343. 9700839 Dept of Navy/ONI Tr No 2142

The Effect of Chemical Reactions on Diffusive-Convective Energy Transfer, by V. I. Makaryavichius, M. M. Tamonis. RUSSIAN, per, Tr Akad Nauk Litovsk SSR, Ser B, No 4(43), 1965, pp 153-164. *Dept of Navy/APL/JHU J-838

Extraction of Metal Compounds From Pyrazoline Dithiocarbamates, by V. N. Byr'ko. RUSSIAN, per, Tr. Komis po Analit Khim, Vol XIV, 1963, pp 191-201. NASA TT F-417

Biological Mechanisms of Oxalic Acid Decarboxylation, by N.K. Magradova. RUSSIAN, per, Tr. Svyaz. Mol., Vol LII, No 1(4), 1961, pp 3-18. *NASA TT F-10,143

Scientific
Chemistry (Contd)

Comparative Study of Action of Gamma Rays and Thermal Sterilization on Thiamine, Riboflavin, Nicotinic Acid, and Tocopherol Content in Beef, by Z. M. Syumyakova.

RUSSIAN, per, Voprosy Pitaniya, No 2, 1966, pp 52-55.

*ACSI J-0303

ID 2204036166

Present State and Prospects for Development of Marine Chemistry, by S. V. Bruyevich, 6 pp. RUSSIAN, per, Works of the Oceanology Institute of the Academy of Sciences of the USSR,

Vol XXVI, 1958, pp 3-7. 9700604

Dept of Navy/ONI Tr No 1010

Experimental Studies on Substituting Hydrochloric Acid Waste For Part of Sulfuric Acid in Producing Calcium Superphosphate, 7 pp.

CHINESE, per, Hua-hsueh Shih-chieh, No 3,

10 Mar 1966, pp. 121-123.

JPRS 36011

Trial Manufacture of Iron (Nickel) Compounded Electrotyping Molds, 6 pp.

CHINESE, per, Hua-hsueh Shih-chieh, No 3,

10 Mar 1966, pp. 124-125.

JPRS 36011

Pressure Pickup for Use in Air, by K. E. Widell, 9 pp.

DANISH, rpt, Tryk Pick-up Til Luft,

December 1962, pp 1-9. 9700746

Dept of Navy/ONI Tr No 2186

Coatings of Polyvinylidene Chloride, by R. Lefaux, Interpack 66.

FRENCH, per, L'Auxiliaire, No 293,

April 1966, pp 15-19; 25-31.

ACSI J-0118

ID 2204031066

A New Method for the Determination of Caprolactam, by L. Polaczek.

GERMAN, per, Chemia Analytica, Vol 8,

1963, pp 961-964.

NLL Ref: 5828 1965 (5804)

On the Autothermal Cracking of Liquid Hydrocarbons, by Von Alfred Schmidt, Herbert Schmidt et al.

GERMAN, per, Erdol und Kohle-Erdgas-Petrochemie, No 9, Sept 1963,

pp 940-944.

*ACSI J-0317

ID 2204037066

Scientific
Chemistry (Contd)

Vibration Excitation and Molecular Dissociation of Gaseous Oxygen and Carbon Dioxide Behind the Shock Front, by N. A. Generalov, S. A. Losev.

RUSSIAN, per J. Quant Spectr Radiative Transfer, Vol VI, No 1, 1966, pp 101-115.

*NASA TT F-10,160

A Quick Process for Nitrogen Micro Estimation in Organic Substances using Co_3O_4 as the Combustion Catalyst, by M. Vecera. FRENCH, per, Mikrochimica Acta, Vol II, 1960, pp 208-219.

*AEC

Protection Against Oxidation of Niobium by Means of a Layer of NbSi_2

Impregnated With SnAl , by B. Lux, et al.

FRENCH, rpt, Paper Presented at the International Conference Organized by the CNRS in Paris, 1966, pp 7-12.

*NASA TT F-10,183

Contributions to the Physiology of Water and Sodium Chloride, by

O. Cohnheim, et al.

GERMAN, per, Z. Physiol Chem, Vol LXIII, 1910, pp 413-431.

NASA TT F-10,131

Physiology of Water and Sodium Chloride, by O. Cohnheim, et al.

GERMAN, per, Z. Physiol Chem, 1912,

Vol LXXVIII, pp 62-88.

NASA TT F-10,146

Alkalimetric Microanalysis of Amino Acids and Peptides, by W. Grassmann, W. Heyde.

GERMAN, per, Z. Physiol Chem, Vol CLXXXIII, 1929, pp 32-38.

NASA TT F-9866

The Critical Supersaturation of Slightly Soluble Salts Homogeneous Precipitation by the Two-Phased Method, by A. Fabrikanos, K. H. Lieser.

GERMAN, per, Z fur Phys Chem, Vol XXXVI, 1963, pp 232-235.

AEC-RFP-tr-15

Chromato-mass-spectrometry. Communication 2. Problems of Combining Chromatographic Columns with a Mass-Spectrometric Detector, by V. L. Tal'rose et al.

GERMAN, per, Zh. Analit. Khim, Vol 20, No 1, 1965, pp 103-111.

NLL Ref: 9022.9 1965 (1114)

Scientific
Chemistry (Contd)

Hungarian Scientist Reports on His Studies in Nuclear Chemistry at Warsaw University, by Mrs. Danoczy, Richard, 5 pp.
HUNGARIAN, per, A Magyar Tudományos Akademia
Kemiai Tudományok Osztályának Közleményei, Vol 25, No 3, 1966, pp. 310-312.
JPRS 36026

Hungarian Scientist Reports on Molecular Studies at Moscow State University, by Istvan Hargittai, 5 pp.
HUNGARIAN, per, A Magyar Tudományos Akademia
Kemiai Tudományok Osztályának Közleményei, Vol 25, No 3, 1966, pp. 312-314.
JPRS 36027

Recent Progress in Radiation Chemistry on Polymers in Japan, by Koichiro HAYASHI.
JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 5, No 12, Dec 1963, pp 997-1005. 9233272
AEC NSJ-tr-56

Radiation Induced Copolymerization of Tetra-Fluoroethylene With Vinylchloride at Low Temperature, by Yoneho TABATA, Kumao HAMANOUE, et al.
JAPANESE, per, J. Chem. Soc. Japan, Ind. Chem. Sect., Vol 67, No 3, May 1964, pp 482-484, 9233269
AEC NSJ-tr-45

Absolute Measurement of Disintegration Rate of Radioisotope Sources by X-Gamma Ray Coincidence Counting Method, by Tamaki WATANABE, Norio TAKEUCHI.
JAPANESE, per, Oyo Buturi (Tokyo), Vol 33, No 5, May 1964, pp 322-327. 9233267
AEC NSJ-tr-43

Production of Unsaturated Hydrocarbons by the Dehydration of Alcohols, by Ohara Soichiro.
JAPANESE, Patent No Showa 39-30263 (168)
Dec 25, (4 Jul 1961), 2 pp.
*AEC

Scientific
Earth Sciences & Astronomy

Report of the Investigations in the Field of Gravimetry Conducted in the USSR from 1962-65, by Yu. D. Boulanger, L. P. Pellinen.
RUSSIAN, rpt, Attach to IR 1502006366
Dept of Navy Tr 4752/ONI Tr 2191

Mechanization of Development of Frozen Ground, by G. A. Svistunov, 4 pp.
RUSSIAN, per, Avtomobilnyye Dorogi, Jan 1966, 2 pp.
ACSI I-9701
ID 2204026466

Studies of the Motion of Artificial Lunar Satellites, by G. A. Chebotarev and S. N. Kirpichnikov,
RUSSIAN, rpt, Bulletin of the Institute of Theoretical Astronomy, Vol X, No 2(115), 1965, pp 109-117.
*ACIC TC-1082

Telescopic Meteor Stream in the Region of the Celestial Pole, by A. M. Baknarev.
RUSSIAN, per, byul Vses Astron Geodez Obshch., Vol XXXVII, 1965, pp 29-34.
RAND

A Linear Theory of the Structure of the Wing Back Clouds in Super Critical Currents, by Wu. Chin-yueh.
CHINESE, per, Chung-kuo K'o-hsueh Chi-shu
Ta-hsueh Hsueh-pao, Vol 1, No 1, Feb 1965, pp 102-195.
*JPRS/NY-13360

Abyssal Structure of the Earth's Crust According to Seismic Data Under the Black Sea Towards the Southwest of Crimea, by Yu. P. Neprochnov,
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol CXXV, No 5, 1959, pp 1119-1122.
ACIC TC-1042

On Determining the Cross-Section of Inelastic Collisions of Molecules of CO₂ with Molecules of Air through Measurements of the Heat Radiation in the Upper Atmosphere, by G. M. Shved.
RUSSIAN, per, Iz Ak nauk SSSR, Vol 1, 1965, pp 1000-1002.
RAND

Polar Ice and Climate, by M. I. Budyko.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf., No 6, 1962, pp 3-10.
RAND

Scientific
Earth Sciences & Astronomy (Contd)

Cretaceous Formations of Ferghana Depression, by Lev Borisovich Rukhin. RUSSIAN, rpt, Leningrad Universitet Institut Zemnoi Kory Leningrad 1961, Dept of Inter No 343(690) R858mEe

Method of Calculating Deviations from Kirchhoff's Law in the Mesosphere in the Presence of Radiation Transfer in the 15 mk Carbon Dioxide Band, by G. M. Shved. RUSSIAN, per, Lenin Univ Vest Ser Fiz i Khim, Vol IV, No 1, 1964, pp 67-79. RAND

Single Line Approximation during the Transfer of Radiant Energy in the Upper Atmosphere, by G. M. Shved. RUSSIAN, per, Lenin Univ Vest Ser Fiz i Khim, Vol IV, No 1, 1964, pp 79-81. RAND

Mineralogical-Structural Features of the Saryuk Stony Meteorite, by I. A. Yudin. RUSSIAN, per, Meteoritika, No 14, 1956, pp 101-109. NASA TT F-10,126

Opaque Minerals of Stony Meteorites, by I. A. Yudin. RUSSIAN, per, Meteoritika, No 16, 1958, pp 78-104. NASA TT F-10,127

Regularities in Composition and Structure of Meteorites and Problem of Their Origin, by A. A. Yavnel. RUSSIAN, per, Meteoritika, No 26, 1965, pp 26-34. NASA TT F-10,128

On the Structure of Chondrules and Chondrites, by L. G. Kvascha. RUSSIAN, per, Meteoritika, No 26, 1965, pp 35-57. *NASA TT F-10,129

Classification of Ferrous Meteorites by Structure, by A. A. Yavnel. RUSSIAN, per, Meteoritika, No 26, 1965, pp 140-145. *NASA TT F-10,130

The Amount of Summer Lightning Over the European USSR, by N. I. Leushin. 15 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 9, 1964, pp 22-28. 9700955 FTU-TT-65-1798

Scientific
Earth Science & Astronomy (Contd)

Energy Spectra of Wind Velocity Fluctuations in the Free Atmosphere, by N. Z. Pinus, 13 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 3-11. JPRS 35828

Forecasting the Mean Value of Indices of Atmospheric Circulation for a Natural Synoptic Period, by M. N. Fedulova, 6 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 26-29. JPRS 35828

Systematic Errors in Estimates of the Parameters of River Runoff Computed by the Moments Method, by Ye. G. Blokhinov, 7 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 32-38. JPRS 35828

Interpretation and Meteorological Use of Satellite Information, by I. P. Vetlov, 9 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 41-44. JPRS 35828

Use of Television Observations of Meteorological Satellites in Synoptic Analysis at the Central Institute of Forecasts, by L. S. Minina, 7 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 45-48. JPRS 35828

Review of the Book Elektrichestvo Svobodnoy Atmosfery (Electricity in the Free Atmosphere), by I. M. Imyaninov and Ye. V. Chubarina, Gidrometeoizdat, Leningrad, 1965, by L. G. Kachurin and V. M. Muchnik, 6 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 57-59. JPRS 35828

Literature on Meteorology and Hydrology for 1965, 12 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 4, 1966, pp. 59-63. JPRS 35828

Steps Above the Earth (Data on Leonov's "Walk in Space"), by A. Yafim'yev. RUSSIAN, per, Mirovoe Priblizhenie Abkhazetva SSSR, 1965, No 5(77), pp 6-8. *FTD-TT-66-443

Scientific
Earth Sciences & Astronomy (Contd)

A Ray Which Penetrates the Future,
by N. Aleksandrov.
RUSSIAN, per, Nauchno-Tekhnicheskiye
Obshchestva SSSR, No 8(68), 1964,
pp 41-43.
*FTD HT-66-439

First Panorama of the Lunar Surface,
by A. I. Lebedinskiy.
RUSSIAN, bk, Pervyye Panoramy Lunnoy
Poverkhnosti, Part I & II, 1966, pp 1-100.
*FTD-MT-66-65

A Statistical Estimate of the Accuracy of Av-
eraging Up the Disturbed Value of the Gravitat-
ional Acceleration for a Finite Period of Time,
by Yu. A. Tyazhesti,
RUSSIAN, per, Prikladnaya Geofizika, No 37, 1963,
pp 135-146.
*ACIC TC-1066

Equations of the Motion of an Earth's Satellite
Taking into Account Atmospheric Resistance, by
K. G. Valeyev,
RUSSIAN, per, Prikladnaya Matematika i Mekhanika,
Vol XXIX, No 6, 1965, pp 1100-1104.
ACIC TC-1085

Earth Model of Cosmic Hot-House, by
M. A. Mil'khikher.
RUSSIAN, per, Priroda, No 2, Feb 1966,
pp 102-105.
*ACSI J-0302
ID 2204036066

On the Heat Effect of the 15 μ m CO₂ Band in
the Upper Atmosphere, by G. M. Shved.
RUSSIAN, bk, Problemy Atmosfericheskoi Fiziki
Sbornik 3, 1965, pp 96-104.
RAND

On the Computation of Certain Integrals in the
Theory of Absorption, by V. A. Baryshev.
RUSSIAN, bk, Problemy Atmosfericheskoi Fiziki,
Sbornik 3, 1965, pp 145-150.
RAND

The Time of Vertical Water Transport in
the Ocean, by K. A. Chekotillo.
RUSSIAN, per, Rezultaty Issled. po
Programme Mez. Geofiz. Goda, Razdel 10,
No 13, 1965, pp 37-40.
NLL Ref: 6113.199 1965 (90)

Scientific
Earth Sciences & Astronomy (Contd)

A Bathymetric Chart of the Northwest
Indian Ocean, by I. M. Belousov.
RUSSIAN, per, Rezultaty Issled. po
Programme Mez. Geofiz. Goda, Razdel 10,
No 13, 1965, pp 163-171.
NLL Ref: 6113.199 1965 (87)

Studies of the Earth's Figure Without the Use
of the Normal Field, by I. F. Monin,
RUSSIAN, per, Sbornik Statey po Geodesii, No 11,
1960, pp 63-71.
*ACIC TC-1078

Undersea Research Vehicles, by
I. N. Sakhalov, 3 pp.
RUSSIAN, per, Sudostroyeniye, Aug 1965,
pp 18-19. 9700744
Dept of Navy/ONI Tr No 2092

Determination of the Maximal Values of
the Gravitational Drift and the Drift Due to
Irregular Rigidity in Integrating Floated-
Type Gyroscopes, by G. A. Slonyanskiy.
RUSSIAN, rpt, Tekhnologiya i Konstruktsiya
Giroprilborov, 1964, pp 74-82.
NASA TT F-10104

Operation of an Integrating Floated-
Type Gyroscope in the Capacity of an
Angular-Motion Nonfollow-Up Pickup,
by G. A. Slonyanskiy.
RUSSIAN, rpt, Tekhnologiya i Konstruktsiya
Giroprilborov, 1964, pp 83-90.
NASA TT F-10,105

On the Conditions for the Development
of Strong Winds in the Arctic,
by L. A. Dykina.
RUSSIAN, per, Trudy Arkt. i Antarkt.
Nauchno-Issledovatel Inst. Vol 255,
pp 158-168.
NLL Ref: 9022.551 1965 (341 N)

On the Relation Between Salinity,
Chlorinity, and Density of the Water
of the Sea of Azov, by A. P. Tsurikova,
26 pp.
RUSSIAN, per, Trudy Gosudarst Okeanograf
Inst. Vol LII, 1960, pp 28-48. 9700747
Dept of Navy/ONI Tr No 2187

A Method of Calculating the Temperature of
the Water in the Active Layer of the White
Sea, by N. Ya. Arsen'yeva, 27 pp.
RUSSIAN, per, Trudy Gosudarstvennogo okeano-
graficheskogo instituta, Vol XXVI, 1965,
pp. 75-94.
JPRS 36254

Scientific
Earth Sciences & Astronomy (Contd)

On Calculating the Vertical Temperature Profile in the Sea, by S. V. Kochetov and K. S. Pomeranets, 12 pp.
RUSSIAN, per, Trudy Gosudarstvennogo okeanograficheskogo instituta, Vol XXCVI, 1965, pp. 144-152.
JPRS 36256

Inertial Errors of Electrobathythermographs and Methods of Compensating For Them, by V. G. Volkov.
RUSSIAN, per, Trudy Instituta Okeanologii, Ak Nauk SSSR, Vol XXXIX, 1960, pp 33-38.
Dept of Inter No
GCI E57 No 53

Methods of Quantitative Studies of Deep Water Benthos by G. M. Belyayev, M. P. Sokolova.
RUSSIAN, per, Trudy Instituta Okeanologii, Vol XXXIX, 1960, pp 96-100.
Dept of Inter No
GCI E57 No 52

Principal Characteristics of the Radiation balance of the Underlying Surface and of the Atmosphere in the Arctic, by M. S. Marshunova.
RUSSIAN, per, Trudy Lenin Arkti i Antarkti Nauch Issled Inst, Vol CCXXIX, 1961, pp 5-53.
RAND

On the Radiation Properties of Clouds, by A. P. Koptev, A. I. Voskresenskiy.
RUSSIAN, per, Trudy Lenin Arkti i Antarkti Nauch Issled Inst, Vol CCXXIX, No 2, 1962, pp 39-47.
RAND

On the Heat balance of the Central Arctic, by U. P. Doronin.
RUSSIAN, per, Trudy Lenin Arkti i Antarkti Nauch Issled Inst, Vol CCLIII, 1963, pp 178-184.
RAND

Variability of Solar Radiation in the Arctic, by M. S. Marshunova.
RUSSIAN, per, Trudy Lenin Arkti i Antarkti Nauch Issled Inst, Vol CCLXXIII, 1965, pp 147-156.
RAND

Search for High-Energy Photons From Discrete Sources of Cosmic Radiation, by A. Ye. Chudakov, et al.
RUSSIAN, per, Trudy Byurofizicheskogo Instituta Akad Nauk SSSR, Sibirsk Otd, 1965, pp 46-49.
*JPRS 77-10,190

Scientific
Earth Sciences & Astronomy (Contd)

On the Question of Determining Normal Heights, by V. F. Yeremeyev,
RUSSIAN, per, Trudy Tsentral'nogo Nauchno-Issledovatel'skogo Instituta Geodesii, Aerost'yenki, i Kartografii, No 157, 1965, pp 69-84.
ACIC TC-1046

Sixth Continental Expedition 1960-1962; General Description and Preliminary Scientific Results, 46 pp.
RUSSIAN, per, Trudy Sovetskoy Antarkticheskoy Ekspeditsii, Vol XLIII, 1965, pp. 58-91.
JPRS 35903

Determination the Figure of the Earth Without the Earth Without the Use fo the Concept of a Normal Comparison Planet, by S. V. Gromov,
RUSSIAN, per, Vestnik Leningradskogo Universiteta. Series of Mathematics, Mechanics and Astronomy, No 19, 1957, pp 145-152.
*ACIC TC-1077

Radiative Heat Transfer Near the Stagnation Point of a Blunt Body, by Z. S. Galanova.
RUSSIAN, per, Vestn Leningr Univ Ser Matem Mekh i Astron, No 1, Issue1, 1966, pp 120-130.
NASA TT F-10,087

Research in the Ocean 33rd Trip of Vityaz, by O. A. Kuznetsov, 4 pp.
RUSSIAN, per, Works of the Institute on Oceanology, Vol LXIV, 1964, pp 154-157.
9700617
Dept of Navy/ONI Tr No 1034

The Riddle of Ball Lightning, by Roal'd Aleksandrovich Leonov,
RUSSIAN, bk, Zagadka Sharovoy Molnii, Moscow, 1965, pp 2-75.
*JPRS/NY 13328

The Earth's Crust and the Upper Mantle of the Continents, by V. V. Belousev,
RUSSIAN, bk, Zemnaya Koru i Verkhayaya Mantiya Materikov, Moscow, 1966, pp 5-111.
*JPRS/DC-12519

Formation and Destruction of Thermal Wind in a Simple Baroclinic Atmosphere, by C. Chu'Shih.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol 33, No 1, 1963, pp 51-63.
NII Ref: 7773.723 1965 (EJN 65-22)

Scientific
Earth Sciences & Astronomy (Contd)

A Dynamical Model for the Numerical
Prediction of Baroclinic Flows,
by C. Tseng-Hao.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao,
Vol 33, No 2, 1963, pp 131-144.
NLL Ref: 7773-723 1965 (ENM 65-23)

Formation and Destruction of Thermal
Wind in a Simple Baroclinic Atmosphere,
by C. Chu-Shih.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao,
Vol 33, No 2, 1963, pp 153-162.
NLL Ref: 7773.723 1965 (ENM 65-22)

Evolution of Individual Cumulus,
by C. Jui-Yung.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao,
Vol 33, No 2, 1963, pp 257-270.
NLL Ref: 7773.723 1965 (ENM 65-1)

Spectrum Analysis of Large Scale Atmospheric
Movement at 100 Millibars during the Period
from Jan 1, 1962 to Feb 10, 1962,
by Ch'en Shou-chun.
CHINESE, per, Ch'i Hsiang Hsueh Pao, Vol XXXIII,
No 3, 1963, pp 333-338.
*FTD-HT-66-437

Utilizing Translational Balloon to Detect Ver-
tical Disturbance in the Atmosphere in Clear
Sky over Peiping, by Yen K'ai-wei, Yu Lai-kuang,
Ching Jung-lin and Li Kuo-chieh, 17 pp.
CHINESE, per, Ch'i-hsiang Hsueh-pao, Vol 35,
No 4, Nov 1965, pp. 449-459.
JPRS 36020

Discussion about the Term "Permian-Carboniferous",
by Chao I-yang, 8 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4,
Jul 1958, pp. 328-331.
JPRS 36151

Mineralogical Study of the Carboniferous Bauxite
from Tsu-Po Basin, Shantung, by Liu Ch'ang-ling,
23 pp.
CHINESE, per, Ti-chih Lun-p'ing, Jul 1958, pp.
251-260.
JPRS 36151

Formation of the T'ao-Lin Lead-Zinc Deposit
of Fissure Filling Type, by Wang Yu-min, 18 pp.
CHINESE, per, Ti-chih Lun-p'ing, Jul 1958,
pp. 261-268.
JPRS 36151

Scientific
Earth Sciences & Astronomy (Contd)

On the Geological Characteristics of the
Fukien-Chekiang Area, by Chang Liang-shou,
11 pp.
CHINESE, per, Ti-chih Lun-p'ing, Jul 1958,
pp. 290-294.
JPRS 36151

A Statistical Study of the Relationship
Between Solar Flares and Magnetic Storms,
by J. Bai-Qin.
CHINESE, per, Ti-Ch'iu Wu-Li Hsueh-Pao,
Vol 9, No 1, 1960, pp 38-46.
NLL Ref: 7773.723 1965 (ENM 65-9)

The Applications of Rayleigh and Love Surface
Wave Velocities to Determine the Thickness of
China's Earth Crust, by SUNG Chungo-ho and
T'An Cheng-yeh,
CHINESE, per, Ti Chiu Wu Li Hsueh-pao, Vol XIV,
No 1, 1965, pp 33-44.
ACIC TC-993

On the Weiho Graben,
CHINESE, per, Wang Ts'un Ch'eng, Ti Chi Hsueh-pao,
Vol XLV, No 2, May 1965, pp 153-164.
ACIC TC-1029

Observation Results of the Finnish Triangulations
in 1961 and 1962, by Erkki Hytonen,
FINNISH, rpt, Suomen Geodettisen Laitoksen, No
58, 1963, pp 3-34.
*ACIC TC-1065

On the Determination of the Mineral
Form of Calcium Carbonate in
Living Organisms, by T. Joyner.
FRENCH, per, Annales de l'Institut
Océanographique, Vol XXVI, No 1, 113p.
1961.
Dept of Inter No
SK361 A278 No 36

Astronomical Observations in the Field
Determinations,
FRENCH, rpt, Astronomiques en Campagne.
*ACSI J-0331
ID 2204037566

Gravimetric and Magnetic Measurements in the
Ivory Coast, Upper Volta, and Southern Mali,
by J. Reichenmann,
FRENCH, rpt, Cahiers ORSTOM - Géophysique, No 5,
May 1965, 43 pp.
*ACIC TC-1069

Scientific
Earth Sciences & Astronomy (Contd)

On the Determination of the Figure of the Geoid From the Anomalies of the Horizontal Gradient of Terrestrial Gravity,
FRENCH, per, Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, Vol XVI, NO 1, 1937, pp 49-50.
ACIC TC-1048

On the Determination of the Deflection of the Vertical From the Anomalies in the Horizontal Gradient of Gravity,
FRENCH, per, Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, Vol XVI, No 3, 1937, pp 169-171.
ACIC TC-1049

Properties of the Attenuation of Radiowaves in the 0.86 Band by Rain, by S. Godard.
FRENCH, per, Journal de Recherches Atmospheriques, Vol II, No 4, 1965, pp 121-167.
*Dept of Navy/APL/JHU J-840

Application of the Differential Process in the Tide Wave Computation in the Streams Affected by Tides, by Ernst Schmoor.
GERMAN, per, Der Bauingenieur, Bd34, Heft 6, 1959, pp 231-240.
Dept of Inter No
532 qSch58a

Some General Problems Concerning the Tectonics of Old Platforms Illustrated by the Example of the East European Platform, by A. A. Bogdanov,
GERMAN, per, Geologie, Vol XIV, No 9, Nov 1965, pp 1017-1038.
ACIC TC-1035

Determining the Figure of Geoid of the Unregulated Earth, by N. Moiseyev,
GERMAN, per, Gerlands Beitrage zur Geophysik, Vol XLII, No 2/3, 1954, pp 279-290.
*ACIC TC-1050

The Soft X-Radiation on the Sun's Undisturbed Corona, by Gerhard Elwert,
41 pp.
GERMAN, per, Zeit fur Natur 9A, 1964, pp 637-663.
Dept of Navy Tr 4736/ONI Tr 2190

Scientific
Earth Sciences & Astronomy (Contd)

Tests to Determine the total Surface on Soils, Clays and Related Substances. VI. The Influence of Sodium Carbonate Admixtures on the Waterholding Capacity of Hydrogen-clay, by H. Kuron, 14 pp.
GERMAN, per, Z fur Pflanzenernahrung, Dungung, Bodenkunde, Nol XXXIIIA, No 5, 6, 1934, pp 298-305.
OTS TT-60-16692

On the Definition of Normal Gravity, by G. Silva,
ITALIAN, per, Atti della Reale Accademia Nazionale dei Lincei, Vol VIII, 1928, pp 691-696.
ACIC TC-1071

On the Formula for Normal Gravity, by G. Silva,
ITALIAN, per, Atti della Reale Accademia Nazionale dei Lincei, Vol XI, 1930, pp 641-644.
ACIC TC-1072

The Icebreaker Fuji, by R. Owaki.
JAPANESE, np, Polar News No 1, (Kyokuchi), August 1965, pp 20; 26; 28; 42.
Dept of Navy Tr 4757/ONI Tr 2195

Electronics

State of Cesium Impurities Utilized in Thermionic Converters, by V. I. Subbotin,
M. N. Ivanovskiy, et al.
RUSSIAN, rpt, Report FEI-22 1965, 6 pp.
*ABC

Use of Orthogonal Filters for the Optimization and Study of Statistical Properties of Errors in Adaptive Systems,
by V. V. Solodovnikova.
RUSSIAN, bk, Analiticheskie Summastravayushchiesya Sistemy Avtomaticheskogo Upravleniya, Moskva, 1965, pp 221-232.
*FID-MI-66-67

On Cognition of Speech Sounds With the Air of Self-Organizing Systems With Two Positive Feedbacks, by G. L. Otkhmezuri. 21 pp.
RUSSIAN, per, Avtomatika, Vol 9, No 2, 1964, pp 59-70. 9700566
FID-TT-65-1851

Scientific
Electronics (Contd)

An Assessment of the Intrinsic Safety of Inductive Electrical Circuits With Ferro-Magnetic Cores, by A. I. Sultanovich. RUSSIAN, per, Bezop. Truda v Promyshl, Vol 9, No 9, 1965, pp 40-42. NLL Ref: 8313.4 B 1965 (5212)

Time-Development of a Thermal Explosion by E. I. Vitkin. RUSSIAN, per, Doklady Ak Nauk Belorussk SSR, Vol IX, No 12, 1965, pp 794-797. *Dept of Navy APL/JHU No J-832

Changes in the Internal Air Distribution of Certain Slow-Running Electrical Machines Resulting from Thermal and Ventilation Tests, by L. S. Rodstein et al. RUSSIAN, per, Elektrichestvo, No 6, 1965, pp 81-84. NLL Ref: 3774.5 1965 (1337)

On the Magnetotelluric Method of Investigation of the Upper Portion of The Earth's Crust, by N. P. Vladimirov, 5 pp. RUSSIAN, rpt, Electromagnetic Probing and Magnetotelluric Methods of Prospecting, April 1961, pp 118-123. 1963. 9700641 Dept of Navy/ONI Tr No 1000a

Microvariation Magnetic Station With a Passband From 0.003 to 10 cps. by Yu. M. Egorov, 8 pp. RUSSIAN, rpt, Electromagnetic Probing and Magnetotelluric Methods of Prospecting, April 1961, pp 157-164, 1963. 9700639 Dept of Navy/ONI Tr No 1000-b

Electron-Beam Apparatus, by A. A. Zhigarev. RUSSIAN, bk, Elektronnoluchevye Pribory, 1965, 336 pp. NLL R 38986

Exposing Defects in the Insulation of Electrical Machines by means of Defectoscopes, by V. B. Kulakovskiy. RUSSIAN, per, Elektr. Stants, Vol 36, No 5, 1965, pp 51-53. NLL Ref: 3774.5 1965 (1299)

Electron Telescopes, by P. B. Shcheglov. RUSSIAN, rpt, Elektronnaya Teleskopiya, Dept of Navy/Tr No 4734/ONI Tr 2176

Scientific
Electronics (Contd)

Radio - Electronic Automation for Shipping, by V. V. Krachino. RUSSIAN, bk, Elektro-radio-Avtomatika na Morskoy Flote, 1965, 218 pp. NLL R 39786

On Methods of Measuring VH AC Test Voltages, by J. Kucera. RUSSIAN, per, Elektrotechn. Obzor, Vol 54, No 4, 1965, pp 155-159. NLL Ref: 3774.5 1965 (1319)

Some New Possibilities for Increasing the Transmission Rate of Discrete Information, by M. J. Pelekhatyy, 13 pp. RUSSIAN, per, Elektrosvyaz', No 3, Mar 1966, pp. 33-41. JPRS 36028

Steady-State Regimes in Linear and Nonlinear Circuits, by I. Ye. Sredniy, 154 pp. RUSSIAN, bk, Impul'snyy Analiz, Kiev, 1963, 168 pp. 9700695-V FTD-TT-65-1556

USSR Direct Current Research Reports of The Leningrad Direct Current Research Institute. RUSSIAN, bk, Iz Nauchno-Issledovatel'skii Institut Postolannogo Toka, Vol I, 1957, 287 pp. Dept of Inter TK 3111 L5

The Design of one Class of Servo Systems Close to the Optimal, by A.A. Vavilov, F.F. Kotchenko. 19 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Elektromekhanika, No 8, 1963, pp 961-972. 9700935 FTD-MT-64-305

Economical Binary-Decimal Code Diode Converters, by V. V. Obratov. RUSSIAN, per, Iz VUZ Elektromekh, No 5, 1965, pp 586-589. RAND

Experimental Observation of Fluctuations of the Temperature of Atmospheric Radio Emission, by V.P. Lastochkin, K. S. Stankevich. 4 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Radiofizika, Vol 7, No 4, 1964, pp 789-790. 9700948 FTD-TT-65-1468

**Scientific
Electronics (Contd)**

Direction-Finding Characteristics of Monopulse Automatic Tracking Systems by S. A. Vakin, B. Kh. Krivitskiy, et al. RUSSIAN, per, Iz VUZ Radiotekhnika, Vol VIII, No 5, 1965, pp 550-560. *Dept of Navy APL/JHU No J-833

Common Problems of the Development of Laser Technique and Ultrahigh-Frequency Techniques, by I. V. Lebedev, 8pp. RUSSIAN, per, Iz VUZ Radiotekhnika, Vol VIII, No 6, 1965, pp 625-631. ACSI I-9784 ID 2204006566

Materials Used in Radio Electronics, by A. G. Sobolevskiy. 51 pp. RUSSIAN, bk, Materialy V Radioelektronike, 1963, pp 1-48. 9700932 FTD-MT-65-69

Mechanization and Automation of Winding Operations in Electrical Instrument Making, by P. P. Serebrenitskii, V. N. Chokhov. RUSSIAN, bk, Mekhanizatsiya i Avtomatizatsiya Namotnykh Rabot v Elektropriborostroeni, 1965, 142 pp. NLL R 39748

Networks: Theory and Methods of Calculation, by G. T. Adoms. RUSSIAN, bk, Magopolysnik: Teoriya i Metody Rascheta, 1965, 467 pp. NLL R 39307

Accuracy in Determining the Vertical Component of the Geomagnetic Field for an Electromagnetic Current Measuring Instrument, by V. V. Novykh, 18pp. RUSSIAN, per, Okeanologiya, Vol V, No 4, 1965, pp 718-724. Dept of Navy Tr No 4733/ONI Tr 2094

The Transmission of Discrete Information in Phased Keyed Channels, by N. T. Petrovich. RUSSIAN, bk, Peredacha Diskretnoy Informatsii v Kanalakh s Fasovoy Manipulyatsiyey, Moscow, 1965, pp 1-265. *JPNS/DC-R-7200/4

Miniature Semiconductor Pressure Sensor, by L. A. Gaispovich, I. I. Sayalov. RUSSIAN, per, Priborostroyeniye, No 10, 1965, pp 24-25. *FTD-MT-66-316

**Scientific
Electronics (Contd)**

Use of Lasers in Communication, by B. B. Kobzev et al. RUSSIAN, bk, Primenenie Opticheskikh Kvantovykh Generatorov dlya Tseli Svyazi, 1965, 120 p. NLL R 39722

Designing of Magnetic Devices for Electron Computers, by E. P. Balashov. RUSSIAN, bk, Proektirovaniye Magnitnykh Elementov i Ustroystv Elektronnykh Bydhis-litel'nykh Mashin, Leningrad, 1964, 290 pp. *FTD-MT-66-71

Modern Methods of Radionavigation, by O. V. Belavin, M. V. Zerova. RUSSIAN, bk, Sovremennyye Sredstva Radionavigatsii, 1965, 279 pp. NLL R 40204

Determination of Propagation of Short-wave Signals by the Characteristic Distortions at the Point of Reception, by N.A. Tel'pukhovskiy. 16 pp. RUSSIAN, per, Trudy AN SSSR, 15-y Astrometri-cheskoy Konferentsii SSSR, Glavnaya Astronomi-cheskaya Observatoriya (Pulkovo), 1963, pp 365-373. 9700931 FTD-MT-65-166

Certain Questions of the Theory of Detection of Single Pulses, by V.F. Nesteruk, N.N. Porfiryeva. 15 pp. RUSSIAN, per, Trudy Leningradskogo Korablistroitel'nogo Instituta Sudostroyeniya i Sudovoye Mashinostroyeniye, No 36, 1962, pp 121-133. 9700934 FTD-MT-65-62

Transistorized Analog Computer MEDA 40T by Bohumil Mirtas. CZECH, per, Sdelovaci Technika, No 2, 1965, pp 57-60. *ACSI J-0325 ID 2204037166

Cable Factories Prepare to Meet Cable Needs for the Power that Will Be Transmitted from the High Dam, 5 pp. ARABIC, np, Al-Ahram, No 28993, 28 Apr 1966, p. 3. JPNS 36135

Semiconductor Electrode System, e. g. Crystal Diode or Transistor, by M. V. Philips, 4 p. FRENCH, pat, Patent No 1,179,196. Dept of Comm Patent Office

Scientific
Electronics (Contd)

Single Crystal Semiconductor Rectifiers of Medium and High Power, by E. Dura, 21 pp. GERMAN, per, Elektrie, Nos. 4 & 5, 1966, pp. 148-149 and 181-185. JPRS 36178

Electron and Photon Cascades in Lead Due to 6 Gev Primaries, by U. Volkel, 16 pp. GERMAN, rpt Elektron-Photon-Kaskaden in Blei fur Primarteilchen der Energie 6 Gev, 1965. 9233079 AEC SLAC-TR-41

Group Antennas - Design and Use, by E. Spindler, 12 pp. GERMAN, per, Radio und Fernsehen, No 3, Feb 1966, pp 72-76. ACSI J-0117 ID 2204030966

Development Trends in Cathode Ray Technology, by M. von Ardenne, 30 pp. GERMAN, per, Die Technik, Vol 21, No 4, Apr 1966, pp. 257-263; No 5, May 1966, pp. 307-313. JPRS 36263

Method and Device for Starting Electric Motors, by A. G. Brown, 2 p. ITALIAN, pat, Patent No 286,336. Dept of Comm Patent Office

Thin Film Capacitors in Microelectronics, by Andrzej Wolkenberg. POLISH, per, Pomiar Automatyka Kontrola, No 8, 1965, pp 358-359. *FTD-INT-66-444

A New Method for Determining Cable Defects Using Pulse Techniques, by Ing. Eneas Barbu. ROMANIAN, per, Telecomunicatii, Vol IX, No 10, Oct 1965, pp 410-414. *ACSI J-0186 ID 2204033266

New Long-Wave Broadcast Transmitter at Bod, by Cesar Borescu, 11 pp. ROMANIAN, per, Telecomunicatii, Vol 10, No 1, Jan 1966, pp. 3-8. JPRS 36207

The Radiating System of the Planned High Power Long Wave Broadcast Transmission, by Ernest Kornis, 14 pp. ROMANIAN, per, Telecomunicatii, Vol 10, No 1, Jan 1966, pp. 9-14. JPRS 36207

Scientific
Engineering

Collected Works of K. E. Tsiolkovskiy, Vol III. Dirigibles, by A. A. Blagonravov. RUSSIAN, bk, Izdatel'stvo Akademii Nauk SSSR Moscow, 1959. NLL Ref: 6015.49F 1965 (F-238)

Automation of Oxygen Production Plants, by E. I. Mikhailov, V. N. Tonkin. RUSSIAN, bk, Avtomatizatsiya Kislorodnykh Stantsii, 1965, 184 pp. NLL R 33956

Automated Electric Drives for Machines in Synthetic Fibre Factories, by Ya. V. Mil'man, V. G. Leshchenko. RUSSIAN, bk, Avtomatizirovannyi Elektroprivod Mashin Zavodov Sinteticheskogo Volokna, 1965, 196 pp. NLL R 39603

Numerical Methods in Gas Dynamics, by G. S. Rosiyakov, L. A. Chukov. RUSSIAN, bk, Chislennyye Metody v Gazovoi Dinamike, 1963. 9231457-V CFSTI TT 65-50138 NASA TT F-360

On the Construction of a Mathematical Model of a "Biological Clock" by B. S. Moshkov, et al. RUSSIAN, per, Dokl Ak Nauk SSSR, Vol CLXVII, No 2, 1966, pp 448-449. NASA TT F-10,107

A Method of Designing a Universal Rotor for a Two-Speed Reversible Motor, by S. Charvat. RUSSIAN, per, Elektrotechn. Obozr, Vol 54, No 8, 1965, pp 371-374. NLL Ref: 3774.5 1965 (1352)

On Choosing Methods for the Dimensioning of Water-Turbines, by D. Pavel. RUSSIAN, per, Energetika, No 7, 1964, pp 301-310. NLL Ref: 3774.5 1965 (1307)

Explosion Energy and Charge Design, by M. V. Mal'nikov and L. N. Marchenko, 128 pp. RUSSIAN, bk, Energia Vozvra i Konstruktsiya Zaryada, 1964, pp. 3-138. JPRS 35928

**Scientific
Engineering (Contd)**

Classification of Products and Their Components and Technical Documentation of the Basic Production of Turbine Construction Works, by P. F. Yerevin, B. A. Pogodin. RUSSIAN, per, Energomashinostroenie, No 12, 1964, pp 27-31.
NLL Ref: 3774.5 1965 (1317)

The Effect of Design and Operational Factors upon the Efficiency of Turbine Thrust Bearings, Methods of Supervising their Operation and of Protecting Them from Breakdown Damage, by S. L. Yampol'skiy. RUSSIAN, per, Energomashinostroenie, Vol 11, No 7, 1965, pp 17-21.
NLL Ref: 3774.5 1965 (1354)

Hydraulic, Technical and Economic Calculations for Canals, by A. A. Uginchus. RUSSIAN, bk, Gidravlicheskie i Tekhniko-Ekonomicheskie Raschety Kanalov, 1965, 274 pp.
NLL R 40088

Hydrodynamic Characteristics of Valves and Pipeline Components, Convergencies, Divergencies and Valves, by B. I. Yan'shin. RUSSIAN, bk, Gidrodinamicheskie Kharakteristiki Zavorov i Elementov Truboprovodov, Confuzory, Diffuzory i Zavorov, 1965, 260 pp.
NLL R 40178

Galloping of Landing Gear Trolleys During the Movement of the Aircraft Over a Dirt Airfield, by V. S. Godek. 6 pp.
RUSSIAN, per, Inzhenernyy Zhurnal, Vol 5, No 4, pp 743-745. 5700564
FTD-HT-66-223

Investigation of the Heating of Solids by Convective and Radiant Flows, by V. V. Ivanov, A. V. Furman. RUSSIAN, per, Izv Ak Nauk SSSR, Energetika i Transport, No 1, 1964, pp 131-134.
*Dept of Navy/APL/RNU No 836

Effect of surface Curvature on the Characteristics of Turbulent boundary Layer (USSR), by A. S. Ginevskiy, Ye. Ye. Solodkin. RUSSIAN, per, Izv Ak Nauk SSSR, OTN, Mekh i Mashino, No 1, 1963, pp 99-110.
*FTD-HT-66-430

**Scientific
Engineering (Contd)**

Effect of the Boundaries of an Incompressible Fluid Flow on the Unsteady Aerodynamic Characteristics of a Profile, by D. N. Gorelov. RUSSIAN, per, Izv Akad Nauk SSSR Mekh, No 5, 1965, pp 157-159.
NASA TT F-10,112

Friction and Windage Losses in Rotor Blade Assemblies of Radial-Flow Turbines of Helicopter and Transport Gas Turbine Power Plants, by N. F. Galitskiy, RUSSIAN, per, Izv VUZ Ser Aviats Tekhn, Vol VII, No 4, 1964, pp 60-66.
NASA TT F-10,118

The Problem of Stereopanoramic Photography, by M. M. Rusinov, 7 pp.
RUSSIAN, per, Investiya vysshikh uchebnykh zavedeniy - Geodeziya i aerofotos'yemka, No 2, Mar-Apr 1965, pp. 123-127.
JPRS 36194

Open-Cast Mine Conveyors, by A. O. Spivakovskii, et al. RUSSIAN, bk, Kar'ernyi Konveiernyi Transport, 1965, 344 pp.
NLL R 40389

Refrigeration Engineering, Encyclopedic Manual No 2, Refrigeration in Industry and Transport by Sh. N. Kobulashvili, 259 pp.
RUSSIAN, rpt, Kholodil'naya Tekhnika, Entsiklopedicheskiy Spravochnik, No 2, Primeneniye Kholoda v Promyshlennosti i na Transporte, Vol II, 1961, pp 5-27; 40-79; 115-139; 153-164; 201-203; 238-252; 306-308; 340-349; 365-368; 386-396; 555-564; 571-575.
ACSI 1-9484
ID 2218030564

Automatic Machines for Forging and Stamping, by G. A. Navrotskyi. RUSSIAN, bk, Kuznechno-Shtampovaya Avtomaty, 1965, 424 pp.
NLL R 39821

Mechanization of Cold Forging in Universal Continuously Reciprocating Presses, by F. V. Nosin. RUSSIAN, bk, Mekhanizatsiya Kholodnoi Shtampakh, 1965, 199 p.
NLL R 40069

Scientific
Engineering (Contd)

Mechanization of Loading and Unloading Refrigeration Plants, by M. I. Gural'nik. RUSSIAN, bk, Mekhanizatsiya Pogruzochno-Razgruzochnykh Rabot na Kholodil'nikakh, 1965, 140 pp. NLL R 40055

Mechanization of Auxiliary Processes in Mine Construction, by A. P. Alimov et al. RUSSIAN, bk, Mekhanizatsiya Vspomogatel'nykh Protseessov v Shakhtnom Stroitel'stve, 1965, 179pp. NLL R 39749

The Use of Polyamides in the Supports of Ships' Propeller Shafts, by Ya. Belakovskiy, V. Buskov, et al, 5 pp. RUSSIAN, per, Morskoy Flot, No VI, 1965, pp 31-32. 9700930
Dept of Navy/ONI Tr No 2000

Certain Data on Investigation of Thermoemission Converter Performance with Auxiliary Ionization, by Yu. Ya. Kravchenko, G. A. Stolyarov. RUSSIAN, rpt, Nekotorye Dannye po Issledovaniyu Raboty Termoemissionnogo Preobrazovatelya s Dopolnitel'noi Ionizatsiei. Report IAE-950, 6 pp. *AEC

New Trends in Welding Techniques, by B. E. Patona. RUSSIAN, bk, Novye Problemy Svarochnoi Tekhnika, 1964, 478 pp. NLL R 36162

Organization of Machinery Replacement Without Stopping Production, by I. N. Kartashov. RUSSIAN, bk, Organizatsiya Perakhoda na Novye Modeli Mashin Bez Prekrashcheniya Vyrabki, 1965, 240 pp. NLL R 39575

Increasing the Effectiveness of Heat-Engineering Equipment, by A. A. Voznesenskiy. RUSSIAN, bk, Povyshenie Effektivnosti Ustanovok Promyshlennoi Teplo tekhniki, 1965, 343 pp. NLL R 39825

Strength Calculation of Hydraulic-Turbine Components, by A. Ya. Aronson. RUSSIAN, bk, Raschet na Prochnost' Detalei Gidroturbin, 1965, 302 pp. NLL R 39781

Scientific
Engineering (Contd)

Building Production the Technology and Mechanization of Building Production: The Economics and Organization of Construction, RUSSIAN, bk, Stroitel'noe Proizvodstvo, 1965, 180 pp. NLL R 38305

Construction and Road Building. RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 3, 1963, Entire Issue
Except pages 8-14; 25-27; 39-40.
*ACSI J-0128
ID 2204030666

Once More About the External Combustion Engine, by G. Smirnov, 10 pp. RUSSIAN, per, Tekhnika Molodezhi, No 1, 1966, pp 34-37. ACSI J-0057
ID 2204029766

The Influence of Creep on the Stress in thin Laminated Shells, by Y. G. Skomarovskiy. RUSSIAN, bk, Teoriya Obolochek i Plastin, 1964, pp 877-883. NLL RTS 2987

Thermal Design of Maritime Steam Turbines, by V. A. Semka. RUSSIAN, bk, Teplovoi Raschet Sudovykh Paroturbinykh Ustanovok, 1965, 260 pp. NLL R 40179

Hydraulic Drive of a Winding Engine and its Dynamics, by J. Kopavsek. RUSSIAN, per, Strojinstvi, Vol 15, No 1, 1965, pp 3-12. NLL Ref: 6075.461 1965 (1664)

Electric Heating Devices for Ships, by V. Z. Gurevich, N. A. Demidov. RUSSIAN, bk, Sudovye Elektronagrevatel'nye Ustroistva, 1965, 244 p. NLL R 39944

Ultrasonic Unit Model OKB-3195 for the Cleaning of Separators and Ring Rails, by G. D. Lubyanskiy. RUSSIAN, per, Tekst. Prom., No 1, 1965, pp 66-70. NLL Ref: 5828.4 1965 (5797)

Experimental Study of Supersonic Flow in Turbine Cascades by E. V. Maiorskii, B. M. Troyanovskiy. RUSSIAN, per, Teploenergetika, No 12, 1965, pp 69-72. *Dept of Navy/APL/RN J-839

Scientific
Engineering (Contd)

Stability of Systems Possessing Properties of Creep, by A. R. Rzhantsyn. 19 pp.
RUSSIAN, per, Trudy AN SSSR. Polzuchest' i Dlitel'naya Prochnost' Sibirskoye Otdeleniye Institut Gidrodinamiki, 1963, pp 15-28.
9700939

FTD-MT-65-171

Choice of Parameters for Design Calculations of Low Head Axial Hydroturbines, by A. E. Shusko.
RUSSIAN, per, Trudy Laboratorii Gidravlicheskih, No 11, 1964, pp 116-128.
NLL RTS 2954

The Problem of Assessing the Accuracy of the Calculation of Welding Deformations, by V. I. Vasilev.
RUSSIAN, per, Trudy Leningrad Inst. ta Vodnogo Transp. Vol 38, 1962, pp 15-.
NLL Ref: 9022.065 1965 (2192)

Study of the Jerk of the Tow Line on Models of High-Powered Tugs, by Ya. I. Voitsunskiy, et al.
RUSSIAN, per, Trudy Leningrad Inst. Vodnogo Transp. No 43, 1964, pp 27-.
NLL Ref: 9022.065 1965 (2211)

Balancing Machines and Instruments, by V. A. Shchepetil'nikov, ed.
RUSSIAN, bk, Uravnoveshivanie Mashin i Priborov, 1965, 571 pp.
NLL R 39928

Strengthening Ferroconcrete Structures of Industrial Buildings and Installations, by N. M. Onufriev.
RUSSIAN, bk, Usilenie Zhelezobetonnykh Konstruktsii Promyshlennykh Zdani i Sooruzhenii, 1965, 342 pp.
NLL R39921

Future Development of Piston and Combined Internal Combustion Engines, by A. S. Orlin, D. N. Vyubov.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 4, 1965, pp 3-8.
*ACSI J-0305
ID 2204036366

On Thermal Fatigue, by N. D. Sobolev. 14 pp.
RUSSIAN, bk, Voprosy Mekhanicheskoy Ustalosti. Tsentral'noye Pravleniye Nauchno-Tekhnicheskogo Obshchestva Mashinostroitel'noy Promyshlennosti, Moskva, 1964, pp 211-219. 9700960
FTD-TT-65-1697

Scientific
Engineering (Contd)

Three-Body Problem. Complete System of Angular Functions, by Yu. A. Simonov.
RUSSIAN, bk, Zadacha Trekh Tel. Polnaya Sistema Uglovykh Funktsii, Moscow, 1965, No 384, 20 pp.
*AEC

Approximate Yield Conditions for Rotational Shells Under Axisymmetric Loading, by Chuh Sheng Nien. 28 pp.
CHINESE, per, Acta Mechanica Sinica, Vol 7, No 1, Mar 1964, pp 12-28. 9700962
FTD-TT-65-1745

On the Manoeuvrability of Catamarans, by Sheng Tsu-Yin.
CHINESE, per, Chinese Journal of Ship-Building, No 4, 1964, pp 7-.
NLL Ref: 9022.065 1965 (2186)

Some New Methods of Constructing Supports of Road Bridges, by Lumir Borovicka
CZECH, per, Inzenyrské Stavby, May 1965, pp 205-212.
*ACSI J-0101
ID 2204030766

Simplified Method of Calculation of Subterranean Protective Constructions, by O. F. Hastrup.
DANISH, rpt, En Simplificeret Metode Til Dimensionering af Underjordiske Dækningsrum, March 1964, Cover to Cover.
Dept of Navy Tr 4756/ONI Tr 2194

Structural Damage Caused by Air Pressure and Vibrations, (Comparison and Evaluation of Existing Damage Criteria), by O. F. Hastrup.
DANISH, rpt, Lufttryk-og Rystelses Fremtaldte Bygningsskader (Sammenligning og Vurdering af Eksisterende Skadekriterier), Feb 1964, Cover to Cover.
Dept of Navy Tr 4754/ONI Tr 2192

Some Considerations of Pressure Conditions in Protective Structures, by K. E. Widell.
DANISH, rpt, Nogle Betragtninger Over Trykforholdene i Bunkere og Lign., April 1962, Cover to Cover.
Dept of Navy Tr 4755/ONI Tr 2193

Prestressed Concrete Caissons of Reactors G-2 and G-3, by F. Conte.
FRENCH, rpt, Commissariat a l'energie Franco-Espagnole Exposition de Madrid October 14-24, 1963.
*AEC ORNL-tr-1282
EDC 8/11/66

Scientific
Engineering (Contd)

Diffraction of a Shock Wave Around
a Pressure Measuring Probe. Application
of the Computational Technique of
Lu Ting, and Ludloff, by C. Thery,
C. Rothea-Laurent, 11 pp.
FRENCH, rpt, Diffraction d'une Onde de
Choc sur Une Sonde de Mesure de
Pression. Application de la Methode de
Calcul de Lu Ting et Ludloff, Report No
N 24/65, pp 3-14. 9700742
Dept of Navy/ ONI Tr No 2183

Automation on the Freighter Oyonnax, 3 p.
FRENCH, per, Journal de la Marine Marchande,
5 May 1966.
Dept of Comm
Maritime Admin

Study of the Experimental Device Utilized,
by Henri Bernier, 39 pp.
FRENCH, rpt, Rapport Commissariat a L'Energie
Atomique - France #CEA-R-2497, 1964, pp 29-54.
9233076
AEC SC-T-66-0729

Prestressed Concrete Caissons - Reactors G-2 and
G-3 - Pilot Experiment.
FRENCH, rpt, Reacteurs G2 and G-3 - Les Caissons
en Beton Precontraint - Experience D'Exploit-
ation - Avril, 1966.
*AEC ORNL-tr-1284
EDC 8/11/66

Sealing Gasket, by M.J.B. Barbarou.
FRENCH, per, Patent No 610,973, 21 Jun 1926.
Dept of Navy Tr 4749/APL JHU T-1821

Method for Preparation of Epoxy Resin Base Pro-
ducts Containing a Filler and Resisting Leakage
Currents, 6 p.
FRENCH, pat, Patent No 1,267,518.
Dept of Comm
Patent Office

The Barge Carrier as Seen by a Navigator, by
Wolfgang Schoenfeldt, 5 p.
GERMAN, per, Hansa, No 7, April 1966.
Dept of Comm
Maritime Admin

Scientific
Engineering (Contd)

Cable Oscillatory Resistance Measurement
With the Polyscope, by W. Bajorat, 5 pp.
GERMAN, per, Die Kurzinformation, No 14,
Mar 1965, pp 31-33.
ACSI I-9691
ID 2204025466

Some Notes on the Overall Symmetry of Spherical
Harmonics, by Hans-Joachim Bunge.
GERMAN, per, Monatsber. Deut. Akad. Wiss. Vol 7,
No 5/6, 1965, pp 351-360.
*AEC ORNL-tr-1286
AEC 7/21/66

On Estimating the Probability of Stability
of Stochastic Systems, by H. Bunke.
GERMAN, per, Monatsberichte der Deutschen
Akademie der Wissenschaften zu Berlin,
Vol V, No 5, 1963, pp 277-280.
*FTD-MT-66-429

Road-Building Machinery at the Leipzig
Spring Fair 1965, by M. Feller, 20 pp.
GERMAN, per, Die Strasse, No 6, June
1965, pp 280-291.
ACSI J-0125
ID 2204031666

Niedemann-Franz-Lerenz Law and Its
Application in the High Temperature Field,
by Roberto Evangelisti, 21 pp.
ITALIAN, per, Rivista di Ingegneria, no 8,
1965, pp 761-771, pp 761-771. 9233099
AEC LA-Tr-66-22

Boiling Heat Transfer at the Coexistence of
Nucleate and Film Regions, by Kaneyasu NISHIKAWA,
Ryutaro SHIMONURA.
JAPANESE, per, Japan Soc. Mech. Engrs, Vol 29,
No 204, Aug 1963, pp 1381-1388. 9233271
AEC NSJ-tr-47

Thermal Stress Analysis for Reactor Pressure
Vessel Nozzles, by Kunio HANADA.
JAPANESE, per, Hitachi Hyoron (Tokyo), Vol 45,
No 12, Dec 1963, pp 91-94. 9233263
AEC NSJ-tr-52

The Experimental and Analytical Determination of
Flow Characteristics of Pneumatic Resistances, by
Lech. M. Kaminski. 14 pp.
POLISH, per, Archiwum Automatyki i Telemekhaniki,
Vol 8, No 3, 1963, pp 335-346. 9700936
FTD-TT-65-1758

Scientific
Fuels & Propulsion

Motion of Two Parts after Bursting of Gas Tank in a Vacuum, by G. L. Grodzovsky, F. A. Kusanov.
RUSSIAN, rpt, Dvizheniye Dvukh Chastei Posle Razryva Ob'yema a Gazom v Vakuum 1965.

NASA TT F-10,135

The Use of Ammonia as a Neutralizing Agent in Marine Diesels Operating on Sour Fuel, by Yu. M. Akivis, G. N. Kharin, et al, 4 pp.
RUSSIAN, per, Khimiya i Tekhnologiya Topliva i Masel, No 4, 1964, pp 49-50.
9700736

Dept of Navy/ONI Tr no 2181

The Colloidal-Chemical Properties and Micro-Structure of Lithium Greases, by G. G. Shchegolev.
RUSSIAN, per, Khim. i Tekhnol. Topliva i Masel, No 8, 1965, pp 48-55.
NLL Ref: 9022.9 1965 (1115)

Separation of Vanadium From Crude Oils and Petroleum Products by Means of Aqueous Sulfonic Acid Solutions, by A. V. Kotova, S. V. Yemel'yanova, 5 pp.
RUSSIAN, per, Khimiya i Tekhnologiya Topliva i Masel, No 10, 1965, pp 29-31. 9700739
Dept of Navy/ONI Tr No 2180

Power Characteristics of Fuels for Aviation Gas-Turbine Engines, by V.N. Zrellov. 10 pp.
RUSSIAN, per, Neftepererabota i Neftekhimiya, No 2, 1964, pp 22-26. 9700965
FTD-TT-65-1905

Use of Microbiological Methods in the Petroleum Industry, by Endre Vámos,
HUNGARIAN, per, Magyar Kemikusok Lapja, No 10, 1965, pp 521-526.
*ACSI J-0311
ID 2204036466

Microbial Desulfurication of Petroleum, by Shin'ya Tsuru.
JAPANESE, per, Institute of Applied Microbiology, Vol XIX, No 8,
*ACSI J-0313
ID 2204036666

Carbon Gas Generation, Using Liquid Fuels, by Jerzy Maczynski and Karol Kaczmarek, 6 pp.
POLISH, per, Gaz, Woda i Technika Sanitarna, No 4, Apr 1966, pp. 110-113.
JPRS 36083

Scientific
Materials & Metallurgy

A Ferrite-Triode Printed Circuit CARD, Controlled by a Trigger, by N. A. Yarmosh. 11 pp.
RUSSIAN, rpt, AN BSSR. Ferrity i Beskontaknyye Elementy, Minsk, 1963, pp 390-398. 9700940
FTD-MT-65-200

An Investigation of the Influence of Zirconium on the Structure and Properties of Carbon Steel, by V. Ya. Savenkov.
RUSSIAN, per, Akad. Nauk UK SSR Metalloved. Term. Obrab. Stali i Chuguna, Vol 18, 1962, pp 67-72.
*BISI 4961

The Structure of the Energy Spectrum of Ions Scattered by a Single Crystal, by Ye. S. Mashkova, V. A. Molchanov, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Ser Fiz, Vol CLXVI, No 2, 1966, pp 330-332. 9233089
AEC SC-T-66-0730

Forward Slip in the Rolling of Strip From Metal Powders, by V. P. Severdenko, E. B. Lozechnikov.
RUSSIAN, per, Doklady Akad. Nauk USSR, No 4, 1963, pp 244-246.
*BISI 4912

The Influence of Creep on Constant Tension Condition of Thin Lamellar Coatings, by Y. G. Skomorovskiy.
RUSSIAN, per, Doklady po Gidrotekhnike, No 4, 1962, pp 38-47.
NLL RTS 2913

At Each Working Position, by D. Zhilyaev.
RUSSIAN, np, Ekon. Gazeta, No 50, Dec. 17, 1965.
*BISI 4953

Structure of the Flow in Relative Motion at the Inlet of a Centrifugal Compressor Impeller, by B. L. Gumbin. 7 pp.
RUSSIAN, per, Energomashinostroyeniye, No 10, 1964, pp 43-44. 9700967
FTD-MT-66-187

Theory of Ultrasonic Absorption in Metals by Yu. A. Kashlev.
RUSSIAN, per, Fizika Metallov i Metallovedeniya, Vol XXI, No 1, 1966, pp 3-11.
*Dept of Navy/APL/JHU No J-831

Scientific
Materials & Metallurgy (Contd)

The Effect of Gases on the Quality of
Titanium Alloy Castings, by E. Ye. Kukkonen.
4 pp.
RUSSIAN, rpt, Gazy v Litom Metalle,
1964, pp 150-153.
ACSI I-9578
ID 2204020366

Rapidly Hardening Moulding Materials
with a Base of Dextrin, Sulphite Liquor
and Water-Glass Dextrin, by A. Gebauer.
GERMAN, per, Giesserei-Technik, Vol 6,
No 9, 1960, pp 280-281.
*BISI 4981

Forced Discontinuous Oscillations
of a Fluid in a Pipeline, by M. S. Matanzon.
RUSSIAN, per, Izv Ak Nauk SSSR, Mekhan,
No 2, 1965, pp 33-42.
*NASA TT F-443

Electrolytic Desulphurization of Pig Iron,
by O. A. Esin, et al.
RUSSIAN, per, Izv. Akad Nauk SSSR. OTN, Dec.
1957, pp 71-76.
BISI 4843

Turbulent Boundary Layer on a Flat Plate
in an Incompressible Fluid, by
G. S. Glushko.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Mekh,
No 4, 1965, pp 13-23.
NASA TT F-10,080

Mechanism of Carbon Reduction on and Below
the Surface of an Iron Melt, by I. A. Moncharov.
RUSSIAN, per, Izv. VUZ Chern. Met., No 1, 1965,
pp 10-16.
BISI 4869

Mechanical Properties of Alloys of the Quaternary
System Nb-W-Mo-Zr at Temperatures of 1000-1600°C,
by Ye. N. Savitskiy, A. N. Zakharov. 11 pp.
RUSSIAN, per, Izvestiya VUZ, Chernaya Metal-
lurgiya, No 1, 1965, pp 104-109. 9700950
FTD-TT-65-1471

Investigation into the Deformation of
Metals During Upsetting Under Vibra-
tional Loads, by V. I. Zalesskiy,
I. P. Volkov.
RUSSIAN, per, Izvest. VUZ Chern. Met.
No 9, Sept. 1965, pp 98-102.
HB 6853

Scientific
Materials & Metallurgy (Contd)

Effect of Zirconium on the Grain Size of
Austenite on Heating Structural Alloy
Steel, by V. F. Zubarev.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12,
1963, pp 141-146.
*BISI 4962

Effect of Hardening Temp. on Ageing of
0.05% C Steel, by Yu. P. Gul'.
RUSSIAN, per, Izv. VUZ Chern. Met., No 2,
1966, pp 107-114.
*BISI 4955

Desulphurization of Pig Iron in Blast
Furnace Hearth When Operating with Small
Slag Bulk, by Yu. M. Borts.
RUSSIAN, per, Izv. VUZ Chern. Met. Apr.
1966, pp 19-24.
*HB 6897

Relationship Between a Calculated Blast
Furnace Index and the Composition of the
Iron, by B. P. Dovgalyuk.
RUSSIAN, per, Izv. VUZ Chern. Met., No 5,
1966, pp 31-35.
*BISI 4960

Organic Sulphur Compounds in Sulphate
Pulp Cooking, by B. D. Bogomolov,
G. F. Prokshin.
RUSSIAN, per, Izv. VUZ Lesnoi Zhurnal,
No 5, 1961, pp 147-155.
NLL Ref: 5828.4F 1965 (5798)

Influence of Concentrator on Stress State and
Stress-Rupture Strength, by V. I. Boikov.
RUSSIAN, per, Izv. VUZ Mashin, No 6, 1964,
pp 42-50.
*BISI 4945

Calculation of Pressure of Metal on the
Rolls During Rolling of Bimetal,
by A. S. Gulyaev.
RUSSIAN, per, Izv. VUZ Tsvet. Met. No 2,
1965, pp 140-146.
*BISI 4916

Molybdenum Disulfide-Base Solid Lubri-
cants, by Z. S. Rubtsova, L. N. Sentyurikhina.
RUSSIAN, per, Khimiya i Tekhnologiya Topliva
i Masel, No 11, 1965, pp 41-45.
ATO 66-52

Scientific
Materials & Metallurgy (Contd)

Full Mechanization of Underground Mines for Non-Ferrous Metals, by I. V. Usevich. RUSSIAN, bk, Kompleksnaya Mekhanizatsiya Podzemnykh Rudnikov i Svetnoi Metallurgii, 1965, 327 pp.
NLL R 39841

Investigation of Frictional Properties of Rubber Soles, by Z. A. Gritsenko, B. A. Safray, et al. 9 pp. RUSSIAN, per, Kozhevenno-Obuvnaya Promyshlennost', No 9, 1964, pp 9-13.
ACSI I-8937C
ID 2204066465

Operational Properties of Plastic Lasts, by V. L. Peglovskiy. 12 pp. RUSSIAN, per, Kozhevenno-Obuvnaya Promyshlennost', No 9, 1964, pp 21.
ACSI I-8937A
ID 2204066465

Unit for Manufacture of Footwear Bottoms, by V. Gorbanev, 4 pp. RUSSIAN, per, Kozhevenno-Obuvnaya Promyshlennost', No 9, 1964, p 22.
ACSI I-8937B
ID 2204066465

Silicon Solar Batteries, by A. Ya. Gliberman, A. K. Zaytseva. 73 pp. RUSSIAN, bk, Kremniyevyye Solnechnyye Batarei, Moskva, 1961, Leningrad, pp 1-72. 9700943-V
FTD-MT-64-204

Glass Fibre Reinforced Polycarbonate Part I. The Mechanical Characteristic Pattern, by E. Streib, E. Oberbach, 20 pp. RUSSIAN, per, Konstruktsiya, Jan 1966. 9700863
Dept of Navy/ONI Tr No 2192

The Problem of Heating Steel Billets in Fused Glass, by E. A. Shadek. RUSSIAN, per, Kuznechn. ShTamp. Proizvodstvo, No 9, Sept. 1965, p36.
HB 6663

Forming Die Inserts from Liquid Steel, by A. A. Ryzhikov et al. RUSSIAN, per, Kuznechno-Shtampov, Vol 7, Oct. 1965, pp 41-42.
NISI 4791

Scientific
Materials & Metallurgy (Contd)

Chopping, by S. Sh. Yashaev. RUSSIAN, per, Kuznechno-Shtampov, Nov. 1965, pp 12-14.
*BISI 4918

Investigation of the Hot Extrusion of Alloys of Copper Powder with Boron Nitride Dispersions, by L. I. Zhivov. RUSSIAN, per, Kuznechn. ShTamp. Proizvodstvo, Vol 8, No 3, 1966 pp 1-3.
HB 6865

Metallographic Laboratories, by E. V. Panchenko, et al. RUSSIAN, bk, Laboratoriya Metallografii, 1965, 440 p.
NLL R 40146

Surface Roughness and Rheological Properties of Adhesives as Factors Determining Optimum Thickness of Glue Line, by V. M. Khrulev. RUSSIAN, per, Mekh. Polim., No 6, 1965, pp 103-107.
*BISI 4950

Organization, Planning and Financing of Building in Ferrous Metallurgy, by D. L. Maizel's. RUSSIAN, bk, Organizatsiya, Planirovanie i Finansirovanie Kapital'nogo Stroitel'stva v Chernoi Metallurgii, 1965, 326 pp.
NLL R 39652

Advances in Briquetting and Coking of Coal, by E. M. Taitz. RUSSIAN, bk, Novoe v Briketirovanii i Koksovanii Uglei, 1965, 178 pp.
NLL R 39667

Advances in the Processing and Transportation of Raw Materials in the Cement Industry, by L. A. Bernshtein. RUSSIAN, bk, Novoe v Tekhnologii Pererabotki i Transportirovaniya syr'ya v Tsementnoi Promyshlennosti, 1965, 192 pp.
NLL R 39824

New Glasses and Glass Materials, by N. M. Bobkovoi, et al. RUSSIAN, bk, Novye Stekla i Steklo Materialy, 1965, 175 pp.
NLL R 40046

Scientific
Materials & Metallurgy (Contd)

Chemical Reactions on the Surfaces of Glass Fibers Used in Glass-Reinforced Plastics, by Ye. B. Trostyanakaya. RUSSIAN, per, Plasticheskiye Massy, No 11, 1965, pp 67-69.
NASA TT F-10,099

Methods of Increasing Effectiveness of Use of Plastics, by M. Yarkovlev. 9 pp. RUSSIAN, rpt, Plastmassy Vmesto Metalla, 1965, pp 7-14.
ACSI I-9854
ID 2204007766

Machine Parts Made of Caprone, by R. Davydova, 9 pp. RUSSIAN, rpt, Plastmassy Vmesto Metalla, 1965, pp 61-69.
ACSI I-9854
ID 2204007766

Determination of the Surface State of Metal Powder Particles by Scattering of Light, by A. I. Raychenko. RUSSIAN, per, Poroshkovaya Met., Vol IX, (33), 1965, pp 69-75.
NASA TT F-10,086

Some Problems in Sintering and Compaction of Stock Rolled from Powders, by O. A. Katrus. RUSSIAN, per, Poroshkovaya Metallurgiya, No 2, (38) Feb. 1966, pp 31-39, 6.
IIB 6872

Slanting Shells of Rotation of Variable Thickness in Spatial Temperature Field, by A.D. Kovalenko. 16 pp. RUSSIAN, per, Prikladnaya Mekhanika, Vol 6, No 3, 1960, pp 241-249. 9700574
FTD-TT-65-1376

Antisymmetrical Stressed State of a Conical Shell of Variable Thickness, by Ya. M. Grigorenko. 12 pp. RUSSIAN, per, Prikladnaya Mekhanika, Vol 6, No 4, 1960, pp 385-392. 9700620
FTD-TT-65-1377

Optimal Regimes For Slowing Down the Rotational Motion of a Symmetrical Body, by B. A. Smol'nikov. RUSSIAN, per, Prikladnaya Mekhanika, Vol XXVIII, No 4, 1964, pp 725-734.
NASA TT F-10,140

Scientific
Materials & Metallurgy (Contd)

Beams Made From Two Different Grades of Steel, by V. A. Baldin. RUSSIAN, per, Promyshlennoi Stroitelstvo, No 11, 1964, pp 20-23.
BISI 4800

Extrusion Through a Roll Die, by Z. I. Yusipov, I. G. Kremenskiy. RUSSIAN, per, ShTamp. Proizvodstvo, Vol 8, No 1, 1966, pp 1-3.
HB 6851

Combined Opencast and Adit Mining and the Reworking of Ore Deposits, by V. V. Kulikov. RUSSIAN, bk, Sovmestnaya i Povtornaya Razrabotka Rudnykh Mestorozhdenii, 1965, 292 pp.
NLL R 39778

Securing Machinery in Plastic Vessels, by Yu. V. Razdrogin, 147 pp. RUSSIAN, per, Sudostroyeniye, No 41, 1965.
Dept of Navy Tr 4729/Bureau of Ships Tr No 963

Technical and Economic Principles of the Heat Treatment of Metals, by A. G. Solodikhin. RUSSIAN, bk, Tekhnicheskie i Ekonomicheskie Osnovy Termicheskoi Obrabotki Metallov, 1965, 451 pp.
NLL R 39806

Methods for Determining the Mechanical Properties of Materials, by B. A. Avdeev. RUSSIAN, bk, Tekhnika Opredeleniya Mekhanicheskikh Svoistv Materialov, 1965, 488 pp.
NLL R 39583

Theory and Practice of Dust Control in Coal Mines, by A. I. Ksenofontova and A. S. Burchakov, 13 pp. RUSSIAN, bk, Teoriya i Praktika Bor'by s Pyli'yu v Ugol'nykh Shakhtakh, 1965.
JPRS 36195

The Fuel-Power Balance of the USSR, by A. Ya. Riznik, S. E. Litvak. RUSSIAN, bk, Toplivno-Energeticheskii Bal Balans SSSR, 1965, 151 pp.
NLL R. 39849

Scientific
Materials & Metallurgy (Contd)

Compounds of the Rare-Earth Metals With Aluminum and Their Crystalline Structures, by P.I. Kripyakevich, I.I. Zalutskiy. 4 pp. RUSSIAN, per, Trudy AN SSSR Institut Metallurgii, 1964, pp 144-145. 9700954
FTD-HT-66-186

Grafted Copolymers of Cellulose With Certain Vinyl Monomers, by U. Azizov, Kh.U. Usmanov, et al. 10 pp. RUSSIAN, per, Trudy Akad. Nauk UZSSR. Institut Khimiy Polimerov, Khimiya i Fiziko-Khimiya Prirodnikh i Sinteticheskikh Polimerov, No 1, 1962, pp 23-28. 9700693
FTD-TT-65-1481

Pressure of Metals on the Rolls of the Continuous 30-102 Tube Rolling Mill, by Ya. L. Vatkin et al. RUSSIAN, per, Trudy Dnepropetrovskiy Metallurgicheskii Institut. Nauch., Vol 49, 1965, pp 332-342.
*BISI 4923

Roll Passes and Bearing Plates of Mills for Tube Rolling, by A. P. Chekmarev et al. RUSSIAN, per, Trudy Dnepropetrovskiy Metallurgicheskii Institut. Nauch., Vol 49, 1965, pp 343-359.
*BISI 4924

Interaction of Aluminum With Cryolite-Alumina Melts, by M. M. Vetyukov. 39 pp. RUSSIAN, per, Trudy Leningrad. Politekhnichekiy Institut, No 239, 1964, pp 39-56. 9700933
FTD-MT-65-193

On the Theory of Electrolytic Refining of Metals in Melts With Liquid Electrodes, by Yu. V. Baymakov. 39 pp. RUSSIAN, per, Trudy Leningrad. Politekhnichekiy Institut, No 239, 1964, pp 70-81. 9700933
FTD-MT-65-193

The Concentration of Creep Stresses and Strains in Aluminium Alloy Plates, by S. V. Serensen, N. A. Borodin. RUSSIAN, per, Trudy Moskovskogo Aviat-sionnogo Tekhnicheskogo Instituta, Vol 61, 1964, pp 73-85.
NLL RTS 3035

Scientific
Materials & Metallurgy (Contd)

New Capabilities of Spectral Analysis of Metals and Alloys With the Use of Preliminary Batching by Contact Spark Discharge, by K.V. Gudkova, K.I. Taganov, et al. 9 pp. RUSSIAN, per, Trudy Po Khimii i Khimicheskoy Tekhnologii Gor'kiy, No 1, 1963, pp 26-30. 9700952
FTD-TT-65-1483

Pilot-Plant Unit for Electrolytic Tinning of Steel Strip in Salt Melts, by A. I. Vitkin. RUSSIAN, per, Tr. Sb. Tsentr. Nauchn. Issled. Inst. Chernoi Met, No 28, 1962, pp 138-145.
BISI 4538

Methods of Testing Metals and Alloys for Creep and Vibratory Creep, by L.T. Timoshuk, A. A. Gudkov. 23 pp. RUSSIAN, per, Trudy Sbornik, Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii, No 38, 1964, pp 123-135. 9700961
FTD-HT-66-215

Influence of Impurities and Rare-Earth Elements on the Properties of Alloys, by M. V. Pridantsev. 225 pp. RUSSIAN, bk, Vliyaniye Primesey i Redkozemel'nykh Elementov Na Svoystva Splavov, Moskva, 1962, pp 1-208. 9700947-V
FTD-MT-64-295

Heat Resistant Chromium Carbide Coating With a Silicate Binder, by Ye. A. Antonova. E. E. Popov. RUSSIAN, per, Zashchita Metalloy, Vol I, No 6, 1965, pp 687-691.
*NASA TT F-10,186

A Method of Making Mesh Filters From Materials and Alloys, by K. L. Chevashova. 3 pp. RUSSIAN, Patent No. 134092, 18 Mar 1960, 2 pp. 9700953
FTD-HT-66-189

Ch'I-Lien Shan Copper Deposit of the Copper Bearing Pyrite Type and Its Exploration, by Hu Hui-min, Wang Wen-kuang and Sun Haueh-ch'un, 12 pp. CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 295-301.
JPRS 36151

Scientific
Materials & Metallurgy (Contd)

Problems on the Distribution, Genesis and Technical Treatment of Cobalt in Shou-Wang-Fen Copper Deposit, by Wang Jun-ming, 7 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 302-305.
JPRS 36151

Opinions on the Origin and the Age of Shansi Type Iron Ore Deposit and Bauxite "Bed G" in North China, by Chao I-yang, 9 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 306-309.
JPRS 36151

New Ideas about the Problem on the Age of Bauxite "Bed G" in North China Platform, by Chang Wen-po, 9 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 310-313.
JPRS 36151

On the Age of Bauxite "Bed G" in North China, by Chang Ch'ung-kan, 6 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 314-316.
JPRS 36151

Discovery of the Rare Element Minerals in Post-Cambrian Granitic Pegmatite in Yenshan Area, by Mang Tung-hung, 5 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 317-319.
JPRS 36151

Opinions on "Preliminary Study of the Genesis, Alteration and Mineral Formation of Yao-Kang-Hsien Granite Intrusion in Hunan", by Lan Chia-ch'ien, 5 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 321-323.
JPRS 36151

Opinions on "Problem on the Origin of the Manganese Ore Lenses" by Lin Hsin-ying, 5 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 18, No 4, Jul 1958, pp. 325-327.
JPRS 36151

Metal Deposits in Igneous Rock in Eastern Ch'i-Lien Mountain, by Hu Hui-min, 36 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 19, No 1, Jan 1959, pp. 1-12.
JPRS 36152

Scientific
Materials & Metallurgy (Contd)

Geological Characteristics and Rules of Mineralization of Lead-Zinc Beds on Hunan-Hupeh Border, by Ch'en Mou-yu, 19 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 19, No 1, Jan 1959, pp. 13-18.
JPRS 36152

Sedimentary Conditions of Alumina Beds in Western Honan, by Shu Wen-po, 8 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 19, No 1, Jan 1959, pp. 19-21 and 12.
JPRS 36152

Geological Characteristics and Sedimentation Environments of Upper Permian Coal Fields in Eastern and Northeastern Yunnan, by Ting Hsun-fan and Chia Shih-cheng, 16 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 19, No 1, Jan 1959, pp. 22-27.
JPRS 36152

Division and Comparison of Pre-Cambrian Strata of China, by Sun Yun-chu, 20 pp.
CHINESE, per, Ti-chih P'ing-lun, Vol 19, No 1, Jan 1959, pp. 28-33.
JPRS 36152

History of Development of Central Sector of the Western Perimeter of Ordos Platform and Environment of Sedimentation of Upper Permian Yen-Ch'ang System, by Chang Wen-chao, 11 pp.
CHINESE, per, Ti-chih Lun-p'ing, Vol 19, No 1, Jan 1959, pp. 37-40.
JPRS 36152

Education and Research in Metallurgy -- Present and Future, by Dr. Eng. Karl-Friedrich Ludemann, 15 pp.
GERMAN, per, Neue Hütte, No 4, Apr 1966, pp. 194-200.
JPRS 36083

Extending the Life of Metals, by N. Vescan, 6 pp.
RUMANIAN, per, Viata economica, Vol 4, No 16, 22 Apr 1966, p. 11.
JPRS 36083

The Mechanism of Chemical Passivation and Corrosion of Metals, by M. Prazak, V. Prazak.
CZECH, per, Chemické Listy, Vol 50, No 1, 1956, pp 23-29.
BISI 4543

Scientific
Materials & Metallurgy (Contd)

Assessing Various Methods of Evaluating
Coke Rates, by J. Lenfeld.
CZECH, per, Hutník, Vol 14, No 7, 1964,
pp 315-317.
BISI 4651

Production of Complex Deoxidizers on
an Iron-Manganese-Silicon-Aluminum
Base, by M. Cervinka.
CZECH, per, Hutník, Vol 15, No 11, 1965,
pp 481-485.
IIB 6780

Subcutaneous Blowholes in Rimming Steel,
by V. Parma.
CZECH, per, Hutník, Vol 16, No 2, 1966,
pp 72-75.
*IIB 6895

Heat Losses Through the Brickwork of the
Working Space of Soaking Pit Furnaces,
by R. Kremer, B. Lonsky.
CZECH, per, Hutn. Listy, Vol 18, No 3, 1963,
pp 185-193.
BISI 4863

Control of the Thermal Zones Within Blast-
Furnaces, by J. Cernek.
CZECH, per, Hutn. Listy, Vol 19, No 11, 1964,
pp 769-774.
BISI 4646

The Effect of Temper Rolling on the Mechanical
Properties of Deep-Drawing Quality Sheet,
by M. Endrle, L. Pokluda.
CZECH, per, Hutn. Listy, Vol 20, No 6, 1965,
pp 411-418.
BISI 4816

Mathematical Model of the Sintering Process
for the Sintering Plant of the Trinec Iron
Works, by M. Hucka.
CZECH, per, Hutn. Listy, No 2, 1966, pp 84-89.
*BISI 4931

Deoxidation Control of Rimming Steel,
by L. Kodrle.
CZECH, per, Hutn. Listy, No 4, 1966, pp 238-244.
*IIB 6894

Scientific
Materials & Metallurgy (Contd)

New Czechoslovak Plastic Shipping Containers,
by M. Cervenka.
CZECH, per, Obaly, No 2, 1966, pp 33-37.
*ACSI J-0327
ID 2204032766

Shipping Containers Made of Glass Laminates
by I. Rac.
CZECH, per, Obaly, No 2, 1966, pp 60-61.
*ACSI J-0327
ID 2204032766

First Danish Map of all Mineral Funds in
Greenland, by K. Ellitsgaard-Rasmussen.
DANISH, rpt, 1965.
Dept of Inter No
403(980) qE(58f

Spin Polarisation of Conduction Electrons
in Iron and Nickel, by E. Daniel.
FRENCH, rpt, 1966.
*AEC

Finishing Problems in Special Steel Works,
by M. J. Philibert.
FRENCH, rpt, Association Technique de la
Siderurgie Francaise, Paris, May 14, 1965.
*BISI 4982

The Evolution of Blast Furnace Refractory
Problems Since 1959, by M. J. Schoendoerffer.
FRENCH, per, Bull. Soc. Franc. Ceram., Oct.
Dec. 1962, pp 51-66.
BISI 4815

The Forges de la Providence LK-Kaldo
Steelworks at Narchienne, by J. Ledune.
FRENCH, per, CNRM, Dec. 1965, pp 33-45.
BISI 4714

Acoustic Method of Temperature Measurement;
Industrial Applications in Metallurgy,
by Y. Noel et al.
FRENCH, per, C.N.R.M. No 5, Dec. 1965,
pp 53-63.
*BISI 4919

Example of Calculation of the Character-
istics of a Hot Blast Stove, by D. Sanna.
FRENCH, bk, Centre d'Etudes Supérieures de
la Siderurgie Les Cahiers du Cessid,
Cahier I, 1964, pp 5-47.
BISI 4645

Scientific
Materials & Metallurgy (Contd)

Some Recent Developments in Optical Methods Applied to the Study of the Microprofile of Metal Surfaces, by M. Froment.
FRENCH, per, Electrochim. Acta, Vol 11, 1966, pp 21-30.
*BISI 4939

Special Steels Used for Aviation, by M. Tetart, M. R. Lachenaud.
FRENCH, per, Estampage Forge, Nov. 1965, pp 37-49.
BISI 4724

Behaviour of Experimental Die-Coatings, by M. Drouzy.
FRENCH, per, Fonderie, Oct. 1965, pp 338-341.
BISI 4854

Research on Aluminum, Nickel and Copper Carbides, by A. Brinor, R. Senglet, 29 pp.
FRENCH, per, J. de Chimie Physique, No 13, 1915, pp 351-375. 9233087
AEC ORNL-TR-1193

Stairworks Research with Pilot Furnaces, by M. B. Trentini.
FRENCH, per, J. Four Elect., No 3, 1965, pp 89-90.
BISI 4726

Spin Polarisation of Conduction Electrons in Ferromagnetic Metals, by E. Daniel.
FRENCH, per, J of Physics and Chemistry Solids, Vol XXIV, 1963, pp 1601-1607.
*AEC

Rubberized Fabrics for Industrial Uses,
FRENCH, rpt, Le Joint Francais, pp 1-33.
*ACSI J-0299
ID 2832004266

Study of the Precipitation of Petn From Acetone, by Paul Aubertein, Luc Verdillion.
FRENCH, per, Memorial des Poudres, Vol 45, 22 Mar 1965, pp 115-129. 9233252
AEC MLM-tr 1330

Refusion by the Use of Electro-Conductive Slag, by B. E. Nedovar et al.
FRENCH, per, Met. Constr. Mecan., Vol 97, Nov. 1965, pp 795-797.
*BISI 4984

Scientific
Materials & Metallurgy (Contd)

The Behavior of Plastics in Fire by A. Audouin, 27 pp.
FRENCH, per, La Revue Maritime, No 221, May 1965, pp 619-636. 9700748
Dept of Navy/ONI Tr No 2182

Micrographic Study of the Oxidation of Iron and of the Transformations of Ferrous Oxide, by G. Chaudron, R. Collongues.
FRENCH, per, Rev. Met. Vol 48, Dec. 1951, pp 917-922.
BISI 4881

Contribution to the Study of Transformations Caused by Tempering High-Speed Steel, by A. H. Michel, J. Papier.
FRENCH, per, Rev. Met., Vol 51, June 1954, pp 425-439.
BISI 4767

Increase in the Creep Strength of Low-Alloy Cast Steel by Small Additions of Boron, by K. Gut et al.
FRENCH, per, Rev. Met., Vol 60, Dec. 1963, pp 1233-1240.
BISI 4847

The Structure of an 18-4-1 High Speed Steel Ingot, by K. Lassota.
FRENCH, per, Rev. Met., Vol 62, 1965, pp 575-586.
BISI 4498

Users' Views on Unformed Refractory Applications, by B. LeClerc.
FRENCH, per, Rev. Met., Vol 62, Oct. 1965, pp 953-967.
BISI 4797

Developments in Refractory Materials for Reheating Furnace, by J. P. Kiehl, J. Montagnier.
FRENCH, per, Rev. Met., Vol 62, Dec. 1965, pp 1219-1223.
BISI 4799

The Influence of Analysis on the Impact Value Anisotropy of Various Carburizing Steels, by P. Ravizza.
FRENCH, per, Rev. Met., Vol 63, Jan. 1966, pp 23-26.
BISI 4845

Scientific
Materials & Metallurgy (Contd)

Mechanical Properties, Texture and Fibrous Appearance of 17% Chromium Steels, Depending on Conditions of Production, by E. Pouillard. FRENCH, per, Rev. Met., Vol 63, Feb. 1966, pp 87-103.
*BISI 4949

Finishing Operations of Large Mill Trains, by J. Lesage. FRENCH, per, Rev. Met., Vol 63, Feb. 1966, pp 150-164.
*BISI 4967

Finishing Operations in Small Section Mills: General Conclusions, by M. Desvallees. FRENCH, per, Rev. Met., Vol 63, Feb. 1966, pp 165-167.
*BISI 4968

Finishing Operations for Small Section Trains, by E. Goue. FRENCH, per, Rev. Met., Vol 63, Feb. 1966, pp 168-172.
*BISI 4969

Economic Aspects of Finishing: General Conclusions, by M. Bonaud. FRENCH, per, Rev. Met., Vol 63, Mar. 1966, pp 242-246.
*BISI 4970

The Use of Optical Emission Spectrometry in the Analysis of Non-Metallic Samples in Iron and Steelworks, by M. Bojic, et al. FRENCH, per, Rev. Met., Vol 63, Apr. 1966, pp 285-295.
*BISI 4948

Use of 35NiCr16 Steel in Aviation, by M. Le Bouc. FRENCH, per, Rev. Met., Vol 63, Apr. 1966, pp 319-321.
*BISI 4943

Salt Baths III - Salt Baths for Heat Treatment of High-Speed Steels, by P. Lesage, B. Coetz. FRENCH, per, Traitement Therm., Vol 2, Mar. Apr. 1965, pp 23-35.
BISI 4505 - III

Scientific
Materials & Metallurgy (Contd)

Method of Manufacturing Finned Tubes, by Carl Schmidt, 3 p. FRENCH, pat. Patent No 326,768.
Dept of Com
Patent Office

Changes in the Properties of Iron-Nitrogen Alloys Caused by Quenching and Heat Treatments Below A₁, by W. Koster. GERMAN, per, Arch. Eisenh., Vol 3, 1930, pp 553-558.
BISI 4660

Nitrogen in Industrial Iron, III - Precipitation of Nitrogen and Carbon From iron as an Example of the Breakdown of a Doubly Super-Saturated Solid Solution, by W. Koster. GERMAN, per, Arch. Eisenh., Vol 4, Sept. 1930, pp 145-150.
BISI 4661

Deformation Resistance of Plain Carbon and Low Alloy Steels During Hot Upsetting Under a Falling Tup Hammer, by F. K. Fink. GERMAN, per, Arch. Eisenh., Vol 26, Nov. 1955, pp 655-668.
*BISI 4966

Measurement of Roll Force and Torque in Hot Rolling and Comparison with Theory, by E. Dahl, E. Wildschultz. GERMAN, per, Arch. Eisenh., Vol 36, Sept. 1965, pp 633-642.
BISI 4894

A New Instrument for the Determination of the Distribution of Metallic and Non-Metallic Phases on the Surface of Specimens with the Electron Probe Micro-Analyser, by G. Dorfler, E. Plockinger. GERMAN, per, Arch. Eisenh., Vol 36, Sept. 1965, pp 649-653.
BISI 4581

Effect of Si, Mn and S on the Reactions Between Pig Iron Melts and Blast Furnace Slags, by M. Oelsen, et al. GERMAN, per, Arch. Eisenh., Vol 36, 1965, pp 779-790.
*BISI 4928

Scientific
Materials & Metallurgy (Contd)

Complementary Derivations to the Conversion of Reactants Between Slag and Metal With Permanently and Transiently Effective Phases, by H. Schenck et al.
GERMAN, per, Arch. Eisenh., Vol 37, 1966, pp 13-19.
*BISI 4929

The Effect of Various Deoxidation Processes on the Properties of Mild Plain Carbon Free-Cutting Steels - I, by C. A. Muller et al.
GERMAN, per, Arch. Eisenh., Vol 37, Jan. 1966, pp 27-41.
BISI 4777

The Spectrometric Analysis of Pig Irons and Low Carbon, Low Manganese Steels, by P. Dickens, P. Konig.
GERMAN, per, Archiv f.d. Eisenhüttenwesen, Vol 37, No 2, 1966, pp 127-131.
IIB 6847

Isolation and Investigations of Oxide Inclusions in Rimming and Partly Killed Steel, by G. Molec, W. Koch.
GERMAN, per, Arch. Eisenh., Vol 37, Feb. 1966, pp 136-143.
*BISI 4915

The Effect of Different Methods of Deoxidation on the Properties of Mild, Plain Carbon, Free-Cutting Steels II - Machinability, by C. A. Muller, E. Zimmermann.
GERMAN, per, Arch. Eisenh., Vol 37, Feb. 1966, pp 145-153.
BISI 4777 Pt. II.

Broadening of X-Ray Interference Lines in Various Heat-Treated Structural Steels by Tensile Strain in the Temperature Range of Blue Brittleness, and the Relationship with Mechanical Properties, by F. Lihl.
GERMAN, per, Arch. Eisenh., Vol 37, Feb. 1966, pp 165-171.
*BISI 4951

Effect of Manganese Content on the Damping Behaviour of Nitrogen-Containing Iron Alloys, by M. Nacken.
GERMAN, per, Archiv. Eisenh., Vol 37, March, 1966, pp 235-243.
*BISI 4955

Scientific
Materials & Metallurgy (Contd)

Damping Investigations on Nitrided Iron-Molybdenum and Iron-Vanadium Alloys, by W. Koster.
GERMAN, per, Arch. Eisenh., Vol 37, Mar. 1966, pp 245-252.
*BISI 4964

The Limits of Identification of Certain Alloying Elements in Steel when Measuring with the Electron Beam Microprobe, by H. de Laffolie.
GERMAN, per, Arch. Eisenh., Vol 37, Apr. 1966, pp 291-295.
*BISI 4946

Contribution to the Rapid Testing of Machinability with Special Reference to a Test Method with Increasing and Decreasing Cutting Speeds, by F.L. Klaus.
GERMAN, per, Arch. Eisenh., Vol 37, Apr. 1966, pp 297-308.
*BISI 4947

The Sorting, Classifying and Recovery of Fine Sand, by H. J. Feil.
GERMAN, per, Aufbereitungs-Technik, Mar. 1966, pp 139-145.
BISI 4882

Hydrogen Chloride Corrosion in Refuse Incineration Plants, by R. Huch.
GERMAN, per, B. W. K. Vol 18, Feb. 1966, pp 76-79.
BISI 4837

The Influence of Small Amounts of Niobium on the Properties of High Strength Workable Structural Steels, by K. Born.
GERMAN, per, Sander, Bleche Rohre, Vol 7, No 2, 1966, pp 80-87.
*BISI 4926

Pressure Vessels of Special Steels for the Storage and Transport of Liquid Gases, by K. Born.
GERMAN, per, Sander, Bleche, Rohre, May, 1966, pp 282-289.
*BISI 4934

Scientific
Materials & Metallurgy (Contd)

Diffusion as a Predominant Process in Technically Important Reactions in Coal and Coke, by W. Peters, H. Juntgen. GERMAN, per, Brennstoff-Chemie, Vol 46, No 2, 1965, pp 56-62.
BISI 4362

Effect of the Ash and Ash Composition of Coals on Cokability and Coke Properties - II, by H. Echterhoff et al. GERMAN, per, Brennstoff-Chemie, Vol 46, No 4, 1965, pp 110-117.
BISI 4398

New Stainless and Corrosion Resistant Austenitic Steels for Chemical Plant Construction: Mechanical Properties and Corrosion Resistance, by H. Spahn, et al. GERMAN, per, Chemie-Ing. Techn. Vol 38, 1966, pp 407-417.
*BISI 4986

The Physico-Chemical Behaviour of Cold Bonded Refractory Bricks, by M. Koltermann. GERMAN, per, Deutschen Keramischen Ges. Ber., Vol 43, No 4, 1966, pp 271-279.
*BISI 4935

Surface Testing by Surface Measuring Instruments, by A. Metz. GERMAN, per, Draht, Vol 15, Apr. 1964, pp 174-176.
*BISI 4930

A New 140 mm Stiefel Mill for the Production of Seamless Steel Tubes, by B. Pectin. GERMAN, per, Freiberger Forschungsh., 688, April 1964, pp 23-28.
BISI 4851

Increasing the Output of Tube Mills Through Mechanization and Automation, by W. J. Ostrenko. GERMAN, per, Freiberger Forschungsh., 696, May 1964, pp 27-41.
BISI 4850

Study of the Precipitation of $M_{23}C_6$ Chromium Carbides in Austenitic Steels by Means of Electrolytic Phase Extraction, by H. Toma, K. Loll. GERMAN, per, Freiberger Forschungsh., B. 111, 1965, pp 133-145.
BISI 4874

Scientific
Materials & Metallurgy (Contd)

Application of X-Ray Microprobe and Electron Microscope to the Study of Duplex Nickel-Chromium Steels, by M. Vyklicky, et al. GERMAN, per, Freiberger Forschungsh., B.111, 1965, pp 147-166.
BISI 4871

Investigation of the Velocity Factor of Outflow Speeds in the Pouring of Cast Iron, by A. Holzmüller. GERMAN, per, Giesserei, Vol 50, No 15, 1963, pp 454-457.
HB 6784

Importance of the Basic Oxygen LD Process for Steel Foundries. Part II, by R. F. Rinesch, G. Kaspar. GERMAN, per, Giesserei, Vol 52, No 16, 1965, pp 485-493.
HB 6643-II

Chemical Action of Environmental Conditions on Molten Steel After Tapping with Regard to Pinhole Formation, by J. Pribyl. GERMAN, per, Giesserei, Vol 52, Dec. 9, 1965, pp 813-820.
BISI 4725

Steelplant Ingot Molds of Nodular Iron, by H. Kempers. GERMAN, per, Giesserei, Vol 53, No 1, Jan. 6, 1966, pp 15-18.
HB 6802

The Green Properties of Bentonite-Bonded Moulding Sands, by I. Bindernagel, et al. GERMAN, per, Giesserei, Feb. 17, 1966, pp 93-96.
*BISI 4940

Suggestions for Controlling Cement-Bonded Ferro-Alloy Briquettes, by F. Röll. GERMAN, per, Giesserei, Mar. 31, 1966, pp 165-168.
*BISI 4927

Planning of, and Operational Experience in an Extensively Automated Spectrometric Laboratory of a Steel Foundry, by H. Goossens, G. Hopfner. GERMAN, per, Giesserei, Vol 53, No 6, 1966, pp 161-166.
HB 6852

Scientific
Materials & Metallurgy (Contd)

Mechanical Properties, Structure, and Inoculation of Antimony-Containing Cast Iron, by K. Wagner.
GERMAN, per, Gieserei, Apr. 14, 1966, pp 250-254.
*HB 6864

Development of a Method for the Rapid Determination of the Nitrogen Content of Steels by the Vacuum Smelting Technique, by Taking in Special Consideration the Metallurgical Processes Occurring During Degassification of Carbon-Saturated Iron Melts, by A. Gerhardt, et al.
GERMAN, per, Gies. Techn. Wiss., Vol 17, 1965, pp 203-209.
*BISI 4952

Structures of Layers Produced by Bath Nitriding and by Nitriding in Ammonia Atmospheres with Hydrocarbon Additions, by B. Prenosil.
GERMAN, per, Harterei-Techn. Mitt., Vol 20, Apr. 1965, pp 41-49.
BISI 4720

Testing of Bath-Nitrided Parts, by B. Finnmern.
GERMAN, per, Harterei-Techn. Mitt., Vol 20, Apr 1965, pp 50-57.
BISI 4721

The Influence of Salt Bath Nitriding on the Alternating and Pulsating Fatigue Strength of Smooth and Notched Specimens of Wrought, Plain C.45 Steel, by G. Seeger.
GERMAN, per, Harterei-Techn. Mitt., Vol 21, 1966, pp 34-44, disc. 44-46.
*BISI 4988

Mechanical Handling in a Tube Mill, by G. Reich.
GERMAN, per, Hebezeuge und Fördermittel, Vol 5, Apr. 1965, pp 97-100.
BISI 477A

Diesel Lift Truck, by H. Springer. 9 pp.
GERMAN, per, Hebezeuge und Fördermittel, No 2, Feb 1966, pp 42-45.
ACSI J-0119
ID 2294031166

Scientific
Materials & Metallurgy (Contd)

Results of Applying an Elevated Top Gas Pressure on the Output From Blast Furnace During Intensification of its Operation, by E. Terlecki.
POLISH, per, Hutnik, Vol 29, No 6, 1962, pp 218-225.
BISI 4648

Component Systematisation and Parts Family Production, by H. Opitz.
GERMAN, per, Industrie-Anzeiger, Vol 87, Dec. 24, 1965, pp 2485-2496.
BISI 4733

Production Planning and Manufacture on the Part-Family Basis, by P. Dill.
GERMAN, per, Industrie-Anzeiger, Vol 87, Dec. 24, 1965, pp 2497-2501.
BISI 4734

Economic Questions in Relation to Related Part Group (Batch) Production, by H. Elenz.
GERMAN, per, Industrie-Anzeiger, Vol 87, Dec. 24, 1965, pp 2517-2523.
BISI 4722

The High-Temperature Embrittlement of Austenitic Nickel-Chromium Steels and Nickel-Base Alloys on Neutron Irradiation, by H. Bohm et al.
GERMAN, per, Jnl. Nuclear Materials, Vol 19, 1966, pp 59-69.
*BISI 4985

Thoughts on the Realization of Continuous Steel Production, by G. Bulle.
GERMAN, per, Kleppig-Fachber., Mar, 1964, pp 91-94.
*HB 6900

Relation Between Steel Purity, Transverse Test Characteristics and the Anisotropy of the Fatigue Strength, by A. Buch.
GERMAN, per, Materialprüfung, No 1, 1965, pp 1-5.
*BISI 4922

Scientific
Materials & Metallurgy (Contd)

Magnetic and Electromagnetic Methods for the Nondestructive Testing of the Depth of Hardening of Case-Hardened Semifinished and Finished Products, Part I- Physical-Technical Fundamentals, by T. Jakel.
GERMAN, per, Materialprüfung, Vol 7, No 7, 1965, pp 243-250.
HB 6650-I

On-Line Ultrasonic Inspection of Thick Plates Using a Pulse Echo Method, by P. Holler, H. Smit.
GERMAN, per, Materialprüfung, Vol 7, Aug. 1965, pp 296-303.
*BISI 4913

Auto-Spectrography in the Steel Industry, by L. Kidman.
GERMAN, per, Materialprüfung, Vol 7, Oct. 1965, pp 361-365.
BISI 4853

Safety Against Fracture of Steel in Reinforced and in Prestressed Concrete Structures, by E.h.W. Janiche.
GERMAN, per, Materialprüfung, Vol 7, No 12, 1965, pp 449-458.
*AEC ORNL-tr-1305
EDC 8/11/66

A New Process of Electroless Nickel Plating, by K. Lang.
GERMAN, per, Metallüberfläche, Vol 19, No 8, 1965, pp 257-262.
HB 6834

Effect of Contamination by Iron Upon the Operation of Cyanide Zinc [Plating] Baths, by F. Hasko.
GERMAN, per, Metallüberfläche, Vol 19, No 8, 1965, pp 263-264.
HB 6893

Influence of Machining and Electrochemical Treatment on Behaviour Under Mechanical and Chemical Stressing of an Austenitic Nickel-Chromium Steel, by H. Wiegand.
GERMAN, per, Metallüberfläche, Vol 20, No 2-10, 1966, pp 165-172. Parts I & II.
*BISI 4987

Impregnated Niobium-Tantalum Alloys, by R. Kieffer, St. Windisch, H. Nowotny.
GERMAN, per, Metall. und Technik, Vol 17, No 7, Jul 1963, pp 669-677. 9231505
NSTIC tr 1649

Scientific
Materials & Metallurgy (Contd)

Use of Hydrodynamic Lubrication in Wire Drawing, by G. Juretzek, et al.
GERMAN, per, Neue Hütte, Vol 10, Apr. 1965, pp 193-199.
BISI 4903

Thin Walled Steel Tubes Made Directly in a Combined Rotary Piercing and Planetary Mill, by F. Wiesner.
GERMAN, per, Neue Hütte, Vol 10, Dec. 1965, pp 728-731.
*HG 6902

Recrystallisation Behaviour of a High Temperature Nickel Chromium Steel During Hot Working, by K. Skuin et al.
GERMAN, per, Neue Hütte, Vol 11, 1966, pp 53-57.
BISI 4846

The Effect of Additional Friction on Deformation Resistances, by J. Ludyga.
GERMAN, rpt, Paper Presented at 28th Conference of the Association of European Roll Designers, Duisburg, 25.4.64.
BISI 4831

Transverse and Longitudinal Cracks in Blooms of Basic OH Steel, by A. Schöberl.
GERMAN, per, Radex Rund., Feb. 1966, pp 96-107.
*BISI 4944

Thread Manufacture by Thread Rolling, by E. Lickteig.
GERMAN, per, Schrauben, Muttern, Formteile, Vol 51, Dec. 1965, pp 669-674, Vol 52, Jan. 1966, pp 39-44.
BISI 4790

Investigations into the Welding of Spheroidal Graphite Cast Iron, by J. Ruge.
GERMAN, per, Schweissen Schneiden, Vol 17, July 1965, pp 299-304.
BISI 4872

Biological Dewaxing of Petroleum Products, by Marcus Grimberg.
GERMAN, per, Seifen-Öle-Fette-Wachse, Vol XCI, No 20, 1965, pp 666-668
*ACSI J-0312
ID 2204036566

Scientific
Materials & Metallurgy (Contd)

Lubricants and Lubricant Carriers
for [Cold] Drawing of Steel Wire,
Part II, by W. Lueg, K. H. Treptow.
GERMAN, per, Stahl und Eisen, Vol 17,
No 17, Aug. 23, 1956, pp 1107-1116.
HB 6846

The Finishing Shop in a Modern Rolling
Mill, by H. Bucken, G. Branscheid.
GERMAN, per, Stahl Eisen, Vol 84, May 7,
1964, pp 625-632.
BISI 4887

Action of Hydrogen and Other Gases on
Steel at Elevated Temperatures,
by I. Class.
GERMAN, per, Stahl Eisen, Vol 85, Feb. 25,
1965, pp 204-211.
BISI 4834

Determination of the Grease Layer on
Metallic Surfaces, Especially Tinplate,
with Fat Soluble Fluorescent Materials,
by G. von der Dunk.
GERMAN, per, Stahl Eisen, Vol 85, June,
1965, pp 799-804.
BISI 4642

Behaviour as Regards Load Distribution
of a Blooming Slabbing Mill with Modern
Rotation Speed Control, by J. Heidepriem.
GERMAN, per, Stahl Eisen, Vol 85, Aug. 26,
1965, pp 1040-1046.
*BISI 4914

Investigation of the Dynamic Loading of
Steelworks Crane Driving Gear by Universal
Joints, by H. Overlach.
GERMAN, per, Stahl Eisen, Vol 85, Oct. 7,
1965, pp 1248-1257.
*BISI 4942

Sprayed Coatings of Steel and Non-Ferrous
Metals and Testing of their Adhesion
Strength, by A. Matting, H. D. Steffens.
GERMAN, per, Stahl Eisen, Vol 85, Oct. 7,
1965, pp 1257-1266
BISI 4609

Scientific
Materials & Metallurgy (Contd)

New Working Methods in the Open-Hearth
Furnace by Using Oxy-Oil Burners,
by M. Wahlster et al.
GERMAN, per, Stahl Eisen, Vol 85, Nov. 4,
1965, pp 1378-1387.
*BISI 4920

The Maintenance Department, by H. Wiegell.
GERMAN, per, Stahl Eisen, Vol 85, Nov. 4,
1965, pp 1441-1446.
BISI 4801

Experience Gained Regarding Air Cooled
Casting Ladle Stoppers, by H. Damoiseaux,
K. Monreal.
GERMAN, per, Stahl Eisen, Vol 85, Nov. 4,
1965, pp 1479-1481.
BISI 4817

The Pattern of Nitrogen, Silicon, and
Sulfur Elimination and the Behavior of
Titanium During the Pretreatment of
Open-Hearth and Basic Bessemer Hot Metals
With Soda, by H. P. Haastert, E. Kohler.
GERMAN, per, Stahl und Eisen, Vol 85,
No 24, 1965, pp 1588-1595.
HB 6777

Present State of Knowledge on the Machina-
bility of Steels, by F. Klaus et al.
GERMAN, per, Stahl Eisen, Vol 85, Dec. 16,
pp 1669-1686.
BISI 4700

Automatic Slag Control in the Basic
Oxygen Processes, by W. Dorr, N. Recknagel.
GERMAN, per, Stahl und Eisen, Vol 85, No 25,
Dec. 1965, pp 1686-1691.
HB 6789

Study of the Production Conditions for Hot-
Dip Galvanized Steel Wire With Zinc Coating
as Thick and as Adherent as Possible,
by H. Krautmacher, P. Funke.
GERMAN, per, Stahl Eisen, Vol 85, Dec. 30,
1965, pp 1713-1722.
BISI 4789

Scientific
Materials & Metallurgy (Contd)

Venturi and Radial Flow Washers for Cooling and Cleaning Impellent and Waste Gases, by W. von Jordan.
GERMAN, per, Stahl Eisen, Vol 7, Apr. 1966, pp 399-406.
*BISI 4917

Economic Plant Management with the Aid of Standard Cost Accounting, by W. Scholler, H. G. Eckhold.
GERMAN, per, Stahl Eisen, Vol 86, Jan. 13, 1966, pp 8-16.
BISI 4788

Influence of Sulphide Formation on the Machinability of Free-Cutting Steels, by D. Radtke, D. Schreiber.
GERMAN, per, Stahl Eisen, Vol 86, Jan. 27, 1966, pp 89-99.
BISI 4775

Comparative Investigation into the Performance of Various Grades of Pellets and Sinter in the Blast Furnace, by H. Pohl, E. Tschierske.
GERMAN, per, Stahl und Eisen, Vol 86, No 2, 1966, pp 74-76.
HB 6827-II

The Importance of Measuring Technology for Automation in Iron and Steel Works, by H. Weineck.
GERMAN, per, Stahl Eisen, Vol 86, Feb. 24, 1966 pp 189-200.
BISI 4855

Modern Electro-Mechanical Weighing in an Oxygen Steelworks, by N. Breuninger, R. Buscher.
GERMAN, per, Stahl Eisen, Vol 86, Feb. 24, 1966, pp 208-213.
BISI 4819

Determination of the Torque in Rolling Strip, Taking Roll-Flattening into Account, by F. W. Hollmann, A. Troost.
GERMAN, per, Stahl Eisen, Vol 86, Mar. 10, 1966, pp 278-284.
BISI 4899

Scientific
Materials & Metallurgy (Contd)

Throughput on Programmed Ingot Slab Trains, by J. Heidepriem.
GERMAN, per, Stahl Eisen, Vol 86, Apr. 21, 1966, pp 465-472.
*BISI 4932

Requirements of d.c. Motors as Auxiliary Drives on Large Reversing Mill Trains, by K. Dobrich.
GERMAN, per, Stahl Eisen, Vol 86, Apr. 21, 1966, pp 473-478.
*BISI 4933

Short-Time Tests for Determination of Susceptibility of High-Strength Constructional Steels to Long-Time Embrittlement, by A. Buttinghaus et al.
GERMAN, per, Stahl Eisen, Vol 86, 1966, pp 542-547.
*BISI 4973

Determination of Hydrogen in Steelmaking Slags, by P. Dickens et al.
GERMAN, per, Stahl Eisen, Vol 86, May 5, 1966, pp 548-552.
*HB 6878

The Development of the High-Strength Weldable Steels Used for Steel Structures; Their Use and Processing, by H. Adrian.
GERMAN, per, Stahl Eisen, Vol 86, June 2, 1966, pp 645-662.
*BISI 4958

Investigations into the Influence of Particle Size on the Development of Coal Dust Explosions, by N. Helwig.
GERMAN, per, Staub, Vol 26, No 2, 1966, pp 65-69.
*BISI 4938

Determining the Required Heights of Two Adjacent Chimneys, by G. Manier.
GERMAN, per, Staub, Vol 26, Mar. 1966, pp 114-121.
BISI 4921

Production of Ultrapure Steels in Electron-Beam Multichamber Furnace, Their Characteristics and Possibilities for Their Use, by Ch. Weiss and G. Scharf, 16 pp.
GERMAN, per, Die Technik, No 5, May 1966, pp. 314-319.
JPRS 36083

Scientific
Materials & Metallurgy (Contd)

Testing Methods for Resistance Spot Welds,
by K. Havers,
GERMAN, per, Techn. Mitt., Vol 56, May 1963,
pp 199-205.
BISI 4818

Technique for the Separation of Super-
imposed Damping Curves, by W. Janiche et al.
GERMAN, per, Techn. Mitt. Krupp Forschungsber.,
No 23, 1965, pp 146-156.
BISI 4891

Bearing and Friction Materials Deposited
by Powder Metallurgy, by H. Franssen.
GERMAN, per, TZ. Prakt. Metallbearb., Vol 59,
No 7, 1965, pp 454-458.
BISI 4807

Forging in Enclosed Dies (Flash-Free
Forging) an Evaluation of the Literature,
by H. Meyer-Nolkenper.
GERMAN, per, Werkstattstechnik, Vol 55,
No 3, 1965 pp 398-403.
HB 6754

Prevention of Corrosion in Oil Fired Boilers,
by F. Glaubitz.
GERMAN, per, Werks. Korros., Vol 16, Dec.
1965, pp 1033-1039.
*BISI 4925

Study of Intercrystalline Grain-Boundary
Corrosion of Austenitic Manganese-Chromium
Steels by Water and Aqueous Solutions,
by A. Baumel, O. Trampusch.
GERMAN, per, Werks. Korros., Vol 17, Feb. 1966,
pp 110-119.
BISI 4873

Influence of the Impurities in the Technical
Iron on the Notch-bar Toughness, by
Gerhard Schmidt.
GERMAN, per, Zeit fur das Eisenhüttenwesen,
Vol VIII, No 8, 1934/35, pp 263-267.
•Dept of Navy Tr /NRL

Notes on the Preparation of Sheet Structure
Through Three Inverse Pole Shapes, by
Hans-Joachim Bunge.
GERMAN, per, Z. Metallkde., Vol 56, No 6, 1965,
pp 378-379.
*AEC ORNL-tr-1287
EDC 7/21/66

Scientific
Materials & Metallurgy (Contd)

Stress-Relieving of Drawn Material by
Stretching, Straightening and Annealing,
by A. Peiter.
GERMAN, per, Z. Metallk., Vol 57, Jan. 1966,
pp 1-8.
BISI 4836

Light Figures, Their Formation and Application
for Determining the Orientation of Crystals,
by H. Gengnagel.
GERMAN, per, Z. Metallk., Vol 57, Apr. 1966,
pp 281-287.
*BISI 4941

New Developments in High Speed Steel,
by A. Randak, J. Kurzeja.
GERMAN, per, Z. Fur Wirtschaftliche Fertigung,
Apr. 1965, pp 131-136.
BISI 4839

New Developments in the Field of High-
Speed Steels, by A. Randak.
GERMAN, per, Z. Wirtschaftl. Fertigung,
May 1965, pp 205-210.
*BISI 4954

New Developments in the Field of High-Speed
Steels, by A. Randak.
GERMAN, per, Z. Wirtschaftl. Fertigung,
June 1965, pp 269-273.
*BISI 4957

Centrifugal Pump, by Walter Mohle, 2 p.
GERMAN, pat, Patent No 809,758.
Dept of Comm
Patent Office

Bored-pipi Clamp, Especially for Supply Lines
Made of Synthetic Material, 7 p.
GERMAN, pat, Patent No 1,090,903.
Dept of Comm
Patent Office

Magnetic Head with Ring Core Produced by Bend-
ing a Sheet Metal Strip, 9 p.
GERMAN, pat, Patent No 1,093,572.
Dept of Comm
Patent Office

Scientific
Materials & Metallurgy (Contd)

Experimental Study of Manufacture of Cold-Headed and Thread Rolled Screws in Aisi 305 Stainless Steel, by G. Caprio. ITALIAN, rpt, Centro Inox, 1965, 20 pp. BISI 4842

Comparative Examination of the Effect of Small Additions of Cb and V to Semikilled Mild Steels, by P. Brozzo. ITALIAN, per, Met. Ital., Vol 47, No 10, 1965, pp 357-368. *BISI 4972

Steels for Dies, by V. Cevoli. ITALIAN, per, Tranciatura Stampaggio, Vol 3, Feb. 1966, pp 1-11. *BISI 4937

Clothespin, by Maurice Degee, 6 p. ITALIAN, pat, Patent No 436,225. Dept of Comm

Refining of Domestic Uranium Ores, by Hideo KINOSHITA. JAPANESE, rpt, FAPIG(Tokyo), No 32, Jun 1964, pp 106-110. 9233261 AEC NSJ-tr-57

Corrosion Studies on Reactor Materials by High-Temperature and High-Pressure Water Loop (II) Chemical Investigation of the Water in High-temperature and High-pressure Water Loop, by Hiroharu ITAMI, Sueo NOMURA, et al. JAPANESE, per, J. Atomic Energy Soc. Japan, Vol 7, No 1, Jan 1964, pp 15-24. 9233258 AEC NSJ-tr-61

Gas Chromatography of Phenol, by A. Uchida, S. Matsuda. JAPANESE, per, J. Chem. Soc. Japan, Vol 65, No 4, 1962, pp 574-477. BISI 4641

The Production of Stainless Steel Strip by Powder Rolling, by K. Tamura, T. Noda. JAPANESE, per, J. Jap. Soc. Powder and Powder Mat., Vol 11, Oct. 1964, pp 236-242. BISI 4875

Scientific
Materials & Metallurgy (Contd)

Effect of Exposed Time at Elevated Temperature on the Embrittlement of Welded Joints of HT60 Steel for Nuclear Pressure Vessels, by Michio INAGAKI, Isao OKANE, et al. JAPANESE, per, J. Japan Welding Soc, Vol 33, No 11, Nov 1964, pp 1010-1019. 9233259 AEC NSJ-tr-60

On the Finishing of Blade Edges by Electrolytic Polishing, by T. Kawakita. JAPANESE, per, Nippon Kinzoku, Vol 21, No 2, 1957, pp 96-99. *BISI 4965

Measurement of Tritium at Natural Levels, by Tan TAKAHASHI. JAPANESE, per, Nuclear Engineering (Tokyo), Vol 10, No 2, Feb 1964, pp 65-68. 9233276 AEC NSJ-tr-49

Some Effects of Charge Size on Blast Furnace Operation, by T. Osuga, I. Kodama. Japanese, per, Tetsu to Hagane, Vol 41, Sept. 1955, pp 945-947. BISI 4655

Effect of Zirconium on Austenitic Grain Size in Iron and Steel, by A. Adachi. JAPANESE, per, Tetsu to Hagane, Vol 48, April 1962, pp 683-687. *BISI 4963

The Relations Between Moisture Content and Preheating Temperature of the Coal Charge and Coke Quality, by H. Joh, et al. JAPANESE, per, Tetsu to Hagane, Vol 50, Sept. 1964, pp 1592-1594. BISI 4772

Automatic Gauge Control of Tandem Cold Strip Mills, by I. Kumo. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2056-2057. *BISI 4974

Influence of Demagnetization on the Cleaning Effect of Steel Strip, by K. Suzuki. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2076-2078. *BISI 4975

Scientific
Materials & Metallurgy (Contd)

Spot and Seam Welding of Electrolytic Galvanized Steel Sheet, by T. Nishimura. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2080-2082.
*BISI 4976

The Diffusion and Solubility of Iron in Liquid Zinc, by M. Kato. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2083-2086.
*BISI 4977

The Effect of Oxygen Content on the Quality of Cold-Rolled Low-Carbon Rimmed Steel Sheet, by T. Saito et al. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2091-2092.
*BISI 4979

The Effect of Heating Rates on the Mechanical Properties of Cold-Rolled Steel Sheet, by M. Shimizu et al. JAPANESE, per, Tetsu to Hagane, Vol 50, No 12, 1964, pp 2097-2099.
*BISI 4980

Spectrographic Determination of Boron in Stainless Steel, by T. Kawaguchi, et al. JAPANESE, per, Tetsu to Hagane, Vol 50, Nov. 1964, pp 2205-2214.
BISI 4666

Effect of Various Factors on the Manganese Content of the Metal Bath in the Basic Oxygen LD Process, by S. Hayashi, Sh. Ono. JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 732-735.
HB 6744

Behavior of Sulfur in the Basic Oxygen Process when Blowing Dead-Soft Steel, by T. Araki, K. Yoshida. JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 735-737.
HB 6745

Use of Lime with Fe_2O_3 Additions in a Basic Oxygen LD Furnace, by Kazuo Nakabayashi et al. JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 737-740.
HB 6746

Scientific
Materials & Metallurgy (Contd)

The Effect of Millscale on the Basic Oxygen LD Process, by Sh. Tamamoto, K. Iwase. JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 740-742.
HB 6747

Manufacture of [Large] Carbon Steel Castings from Basic Oxygen LD Furnace Steel, by T. Yamaguchi et al. JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 743-744.
HB 6748

Effect of Bath Motion on Splashing, [of Bath Oxygen Furnace Bath] Part II of 'A Study of Various Phenomena in Basic Oxygen LD Furnaces, Based on Room Temperature Models, by T. Simotsuma, K. Sano. JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1909-1911.
HB 6712

The Drop in Temperature Between the End Point of the Blow and the Tap in the Basic Oxygen LD Process, by Sh. Morita, H. Hirahata, JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1928-1930.
HB 6716

Behavior of Deoxidation Products in the Deoxidation [of Steel] with Aluminum, Part I of 'Investigation into the Behavior of Deoxidation Products in Iron and Steel', by I. Uchiyama, T. Saito. JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1956-1958.
HB 6890

Deoxidation of Iron-Carbon Alloys With Cerium and the Resulting Nonmetallic Inclusions, by T. Kusakawa, Y. Watanabe. JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1970-1973.
HB 6669

Thermodynamic Behavior of Columbium Carbide, Carbonitride, Nitride and Sulfide in Steel, by T. Mori et al. JAPANESE, per, Tetsu to Hagane, Vol 51, No 11, 1965, pp 2031-2033.
HB 6899

Scientific
Materials & Metallurgy (Contd)

Annealing Trials on Steel Wire in Various Furnace Atmospheres, by W. Schwensfeier and O. Pawelski. GERMAN, per, Stahl und Eisen, Vol 85, No 21, 1965, pp 1320-1327. HB 6839

Thermal Characteristics of a Pebble-Bed Heater, by M. Hayasi. JAPANESE, rpt, Tokyo, Tr 52, 1963, pp 1-15. *NAGA TT P-10,188

Coal-Oil Slurry Injection into Blast Furnace, by K. Morinaga et al. JAPANESE, per, Tetsu to Hagane, Vol 52, No 2, 1966, pp 107-113. *HB 5891

Copper and Brass-Infiltrated Sintered Iron Powders, by St. Stolarz. POLISH, per, Hutnik, No 3, 1966, pp 87-95. *HB 6896

Non-Destructive Method for Determining the Strength of Cellular Concrete, by S. Rybicki. POLISH, per, Inzynieria i Budownictwo, No 9, 1961, pp 370-372. NLL Ref: 5196 1965 (1251)

Some Steelmaking Applications of Investigations of Non-Metallic Inclusions, by J. Foryst. POLISH, per, Prace Inst. Hutn., Vol 17, No 2/4, 1965, pp 219-223. BISI 4824

Phenomenon of Sulphur Passing From the Blacking into the Cast Iron, by K. Mazanek. POLISH, per, Prace Instytutu Odlewnictwa, No 1-2, 1964, pp 75-97. *BISI 4971

Desulfurization of Open-Hearth Pig Iron Outside the Blast Furnace, by L. Krol, J. Rys. POLISH, per, Prace Rady Naukowo-Technicznej Hutn., No 14, 1964, pp 3-12. HB 6674

Scientific
Materials & Metallurgy (Contd)

Continuous Steelmaking, by Prof. Sven Eketorp. SWEDISH, per, Teknisk Tidskrift, Vol 94, No 45, 1964, pp 1229-1232. HB 6815

Uranium Deposits in Yugoslavia, by Prof. Dr. Engr. Slobodan Jankovic, 26 pp. SERBO-CROATIAN, per, Rudarski glasnik, No 1, Jan 1966, pp. 63-78. JPRS 36238

Molybdenum Deposits in Yugoslavia, by Prof. Dr. Engr Slobodan Jankovic, 13 pp. SERBO-CROATIAN, per, Rudarski glasnik, No 1, Jan 1966, pp. 55-62. JPRS 36238

Effect of Silicon Content on the Mechanical and Physical Properties and the Fine Crystal Structure of Silicon Steels Subjected to High Temperature Ausforming, by N. Sassu. RUMANIAN, per, Studii Cerc. Met., Vol 10, No 1, 1965, pp 31-48. *BISI 4959

Effect of High-Temperature Thermomechanical Treatment on the Mechanical Properties, Microstructure and Fine Crystal Structure of Silicon Steels, by N. Sassu. RUMANIAN, per, Studii Cerc. Met., Vol 9, No 2, 1964, pp 161-177. *BISI 4936

Considerations on the E.S.R. Process, by I. Tripsa. RUMANIAN, per, Cerc. Met., Vol 7, 1965, pp 105-120. *BISI 4983

The Possibilities of Applying a New Process of Steel Melting From Scrap in Poland, by S. Soltan. POLISH, per, Problemy Projektowe, Vol 13, Feb. 1965, pp 37-40. BISI 4896

Scientific
Mathematics & Data Processing

Telemetry Apparatus with Digital Reading
by Ivan Ivanovich Mikhaylov.
RUSSIAN, bk, Apparatura Teleizmereniya S
Tsifrovym Otschetom, 1964, pp 1-123.
*FTD-MT-66-68

Complete Radial Variation of One Class of Harmonic Functions, by V. S. Zakharyan and E. O. Nazaryan,
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol XLI, NR 2, 1965, pp 65-72.
ACIC TC-1073

Simultaneous Approximation of Certain Functions by Polynomials and Derivatives, by Ye. Sh. Chat-skaya,
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol XLI, No 3, 1965, pp 129-136.
*ACIC TC-1074

Electronic Computers, by L. N. Korolev and V. M. Bryabrin, 52 pp.
RUSSIAN, per, Elektronnyye Vychislitel'nyye Mashiny, 1965, pp. 1-87.
JPRS 35972

Production Control by Computers, by V. S. Kazakovtsev.
RUSSIAN, bk, Instrument Upravleniya, 1965, 92 pp.
NLL R 39763

Mathematical Description of Items for Automation, by V. M. Ordyn'tsev.
RUSSIAN, bk, Matematicheskoe Opisanie Ob'ektov Avtomatizatsii, 1965, 360 pp.
NLL R. 39805

An Approximation Process Related to Legendre Polynomials, by I. K. Daugavet,
RUSSIAN, per, Metody Vychisleniy, No 2, 1963, pp 29-38.
*ACIC TC-1075

Character Recognition: Theory of Data Transmission, by B. L. Blokh.
RUSSIAN, bk, Opisanie Obrazov: Teoriya Peredachi Informatsii, 1965, 151 pp.
NLL R 39674

Scientific
Mathematics & Data Processing (Contd)

Concerning the Invertibility of the Lyapunov's Theorem of Asymptotic Stability, by I. G. Malkin, 13 p.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol XVIII, 1954, pp 129-138. 9700469
RSIC-526

Integro-Differential Equations of a Problem for Equilibrium of Shells of Rotation of Variable Thickness, by G. I. Tkachuk. 10 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 7, No 3, 1961, pp 266-271. 9700949
FTD-TT-65-1378

Use of Computers for Calculating Radiation-Induced Disturbances in Metals, A. N. Orlov.
RUSSIAN, rpt, Primeneniye Elektronnykh Vychislitel'nykh Mashin Dlya Rascheta Radiatsionnykh Vozmushcheniy v Metallakh
Deystvie Yadernykh Izлучeniy na Materialy. Moskva, 1962, pp 288-293.
*FTD-MT-66-433

The Application of a Digital Computer for Approximation of Discrete Fields, by V. A. Rozhkov, V. N. Vasil'yev, 16 pp.
RUSSIAN, per, Trudy Gosudarstvennogo okeanograficheskogo instituta, Vol XXCVI, 1965, pp. 112-123.
JPRS 36255

Stability of Solutions of Stochastic Differential Equations, by I. I. Gikhman, A. Ya. Dorogovtsev.
RUSSIAN, per, Ukrainskii Matematicheskii Zhurnal, Vol XVII, No 6, 1965, pp 3-12.
*Dept of Navy/APL/JHU No 834

Conditions of Asymptotic Stability in the Case of Unstable Motion and an Evaluation of the Rate of Decrease of the General Solution, by V. I. Zubov, 36 p.
RUSSIAN, per, Vestnik Leningradskogo Universiteta, No 1, 1957, pp 110-129. 9700471
RSIC-529

Representation of Continuous Functions of Two Variables with the Aid of Continuous Functions of One Variable, by L. A. Bassalygo.
RUSSIAN, per, Vestn Moskovsk Univ Matematika, No 1, 1966, pp 58-63.
*Dept of Navy/APL/JHU No 835

Scientific
Mathematics & Data Processing (Contd)

Automation of Card Punching, by D. Zhak and V. Meshcheretova, 8 pp.
RUSSIAN, per, Vestnik Statistiki, No 3, Mar 1966, pp. 75-82.
JPRS 36030

The Problems of Irregular Three-Dimensional Density of Surface Separations, by Hsu-yun, CHINESE, per, Ti Ch'iu Wu li Hsueh Pao, Vol XIV, No 1, 1965, pp 35-66.
ACIC TC-992

On the Quasi-Stokes' Form of N. Noisseyev's Integral Equation for the Unregulated Geoid, by B. Saltykov, FRENCH, per, Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, Vol XVI, No 3, 1937, pp 138-140.
ACIC TC-1053

On the Solution of N. Noisseyev's Integral Equation in the Theory of the Unregulated Figure of Geoid, by V. Saltykov, FRENCH, per, Comptes Rendus (Doklady) de l'Academie des Sciences de l'URSS, Vol XVI, No 8, 1937, pp 133-137.
ACIC TC-1052

Calculator, by Jules Arnault and Louis Paineau, 13 p.
FRENCH, pat, Patent No 516,480.
Dept of Comm
Patent Office

Mathematical Classification Models in Pattern Recognition Problems, by Stanislaw Schmidt, POLISH, per, Archiwum Automatyki i Telomechaniki, Vol IX, No 4, 1964, pp 427-442.
*FTD-HT-66-445

Stress State Near a Rectangular Opening With Curved Angles in a Cylindrical Shell by O. N. Guz, S. G. Golorod'ko. 8 pp.
UKRAINIAN, per, Prykladna Mekhanika, Vol X, No 6, pp 594-599, 1964.
Dept of Navy Tr 4732/Bureau of Ships Tr No 983

Scientific
Nuclear Sciences & Technology

Catalog of the Instruments Using Nuclear Sources and Utilized for Controlling and Automation of Technical Processes, Produced by the All-Union Group "Isotope", 1965.
RUSSIAN, bk, Moscow, 1965, 58 pp. 9233074-V
AEC-Tr-6699

Global Fallout Products of Nuclear Explosions, by V. N. Lavrenchik, 170 pp.
RUSSIAN, bk, Moscow, 1965, 170 pp. 9233075-V
AEC-Tr-6666

Multi-Photon Ionization CF Atoms and Molecules in a Strong Electromagnetic Wave Field, by G. S. Voronov, 10 pp.
RUSSIAN, rpt, Moscow, 1965, pp 1-14.
9233094
AEC NP-TR-1380

The Reactions $He^3(d, t)2p$ And $He^3(He^3, \alpha)2p$, by K. P. Artemov, V. Z. Gol'dberg, 6 pp.
RUSSIAN, rpt, 1964. 9233085
AEC-TR-6706

Water Purification and Water Preparation for Nuclear Reactors. Communication II, by E. S. Chmurotov, N. V. Potekhin, 11 pp.
RUSSIAN, rpt, 1964. 9233084
AEC-TR-6703

Water Purification and Treatment for Nuclear Research Reactors, by B. A. Alekseyev, E. B. Babulevich, 13 pp.
RUSSIAN, rpt, pp 95-117. 9233090
AEC WAPD-TR-26

Investigation of Excited States of Mh^{104} , 104^+ by the γ -Radiation From the (MY) -Reaction, by O. I. Sumbayev, V. L. Alekseyev, 29 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Fiz, Vol XXIX, 1965, pp 739-759. 9233093
AEC ANL-TR-303

Gas-Discharge Sources of Ions and Atoms With a Glowing Cathode, by O. V. Kozlov, Yu. A. Skoblo.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, No 2, 1965, pp 87-91.
*FTD-HT-66-318

Study of Transient Neutron Spectra in Zirconium Hydrate, by S. N. Ishmaev, V. I. Mostovoi.
RUSSIAN, rpt, OKAE, Institut Atomnoi Energii im. I. V. Kurchatova, Moscow, 1965, 19 pp.
*AEC

Scientific
Nuclear Sciences & Technology (Contd)

Demineralization of Salt Water: A Method of Distillation Employing Heat From Atomic Reactors, by E. D. Mat'tsev. RUSSIAN, bk, Opresnenie Solenyykh Vod: Metod Distillyatsii s Ispol'zovaniem Tepla Yadernykh Reaktorov, 1965, 84 pp. NLL R 39852

Polymer Coatings in Nuclear Engineering, by V. B. Tikhomirov. RUSSIAN, bk, Polimernye Pokrytiya v Atomnoi Tekhnike, 1965, 276 pp. NLL R 39789

Reconstruction of Research Reactor IRT at Atomic Energy Institute imeni I.V. Kurchatov, by V. V. Gencharov, Yu. F. Chernilin, et al. RUSSIAN, rpt, Rekonstruktziya Reaktora IRT v IAE im. I.V. Kurchatova, Report IAE-992, 25 pp. *AEC

The Effect of Ultraviolet Radiation on the Amount of Nucleic Acid in Paramecium Caudatum, by K. A. Samoilova, et al. RUSSIAN, per, Sbornik Rabot Tsitol Ak Nauk SSSR, No 3, 1963, pp 145-153. *AEC-ORNL-Tr-1289

Outlook for the Introduction of Radioactive Den-simeters of Liquid into the Industry of Organic Synthesis, by N.A. Veksler, K.S. Furman, et al. 10 pp. RUSSIAN, per, Trudy. Vsesoyuznogo Soveshchaniya, Radioaktivnyye Izotopy i Yadernyye Izlucheniya v Narodnom Khozyaystve SSSR, 12-16 Apr 1960, 1961, pp 257-262. 9700963 FTD-TT-65-1448

Effect of Reactor Radiation on Performance of Cesium Diode, by F. V. Kondrat'yev, G. V. Sinyutin, et al, 8 pp. RUSSIAN, rpt, Vliyanie Izlucheniya Reaktora na Raboty Tossievogo Dioda, Report IAE-949. *AEC

The Planning of n-p Scattering Experiments for Determining the Most Probable set of Phase Shifts, by F. Lehar, V. V. Fedorov. RUSSIAN, per, Yadernaya Fizika, 1965. AEC AERE tr 1047

Nuclear Physics, I-Hsi Cheng. CHINESE, bk, Yuan-Tzu Wu-li-Hsueh, 2nd Edition, 1965, pp 205-214. *FTD-HT-66-421

Scientific
Nuclear Sciences & Technology (Contd)

Prospects of Development of Nuclear Power in Yugoslavia, by S. Suica. CROATIAN, per, Nuklearna Energija, Vol 2, No 1, 1965, pp 1-7. NLL Ref: 9091.9F 1965 (Risley Tr. 910)

"Duro Dakovic" Work on Nuclear Power Station Equipment, by D. Peretic. CROATIAN, per, Nuklearna Energija, Vol 2, No 1, 1965, pp 20-21. NLL Ref: 9091.9F 1965 (Risley Tr. 911)

Application of a Proportional Counter to Some Particular Cases of a Measurements, by Janine Ferret, Marie-Therese Gasc, 13 pp. FRENCH, rpt, CEA-R 2765. 9233097 AEC RFP-Tr-13

Detection of Fission Fragments by Secondary Emission, by Arlette Audias. FRENCH, rpt, Detection des Fragments de Fission par Emission Secondaire, Report CEA-R-2862. *AEC-ORNL-Tr-1285

CaF₂ As a Model Substance for Diffusion Processes in UO₂, by H. Matzke, 7 pp. FRENCH, per, Journal Nuclear Materials, Vol XI, 1964, pp 344-347. 9233100 AEC NP-TR-1381

Nuclear Fusion. (Translated Selected Articles). FRENCH, rpt, Nuclear Fusion, Vol V, No 1, 1965. 9233082-V AEC-Tr-6669

Nuclear Power Plant. FRENCH, Patent No. 1,382,728. *AEC ORNL-tr-1309 EDC 8/11/66

Dose Rate and Maxium Permissible Flux of High Energy Electrons and Gamma Rays, by K. Tesch, GERMAN, rpt, Dosisleistung und Toleranzfluss Hochenergetischer Elektronen und Gammastrahlen, Dasy-SI-1 (1965), *AEC-ORNL-Tr-1250

Scientific
Nuclear Sciences & Technology (Contd)

Hungarian Scientist Reports on His Studies in Nuclear Chemistry at Warsaw University, by Mrs. Richard Danoczy, 5 pp.
HUNGARIAN, per, A Magyar Tudományok Akadémia
Kemiai Tudományok Osztályának Közleményei,
Vol 25, No 3, 1966, pp. 310-312.
JPRS 36026

Dissolution of Fuel-Element Jackets of Aluminum and S.A.P. in a Recirculating Dissolver, by G. Beone, 41 pp.
ITALIAN, per, Comitato Nazionale Energia Nucleare, 1965. 9233088
AEC ORNL-TR-1247

UC-ZrC (NbC) as a Reactor Fuel Material, by Kazuo YAMAMOTO.
JAPANESE, per, J. Atomic Energy Soc. Japan,
Vol 6, No 4, Apr 1964, pp 197-205. 9233266
AEC NSJ-tr-41

Radiation Induced Liquid Phase Oxidation of Cumene, by Yoshida Kenzo, Kawakami Waichiro.
JAPANESE, rpt, JAERI-1100. Dec 1965, 10 pp.
*AEC

Significance of Nuclear Tests and Rectification, by Atsuyoshi Niijima, 12 pp.
JAPANESE, per, Ekonomisto, 31 May 1966, pp. 22-28.
JPRS 36230

On the Geochemical Studies of Stable Isotopes (III) on the Estimation of the Isotope Ratio in the Mantle, by Nakoto SHIMA.
JAPANESE, rpt, Mass Spectroscopy (Tokyo), Vol 12,
No 25, May 1964, pp 17-20. 9233275
AEC NSJ-tr-48

Fission Gas Diffusion Loop in Japan Atomic Energy Research Institute, by Seishi YAJIMA, et al.
JAPANESE, per, Nippon Genshiryoku Gakkaishi,
Vol 8, No 1, 1966, pp 3-11.
*AEC ORNL-tr-1313
EDC 8/11/66

Activation Analysis of Short Life Nuclides: II, by Nakai, 7 pp.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXXI, 1960, pp 104-107.
ACSI J-0123
ID 2204031466

Scientific
Nuclear Sciences & Technology (Contd)

Removal of ¹³⁷Cs on a Niigata Montmorillonite Clay by Column Technique, by Masao TAKIZAWA, Kugao KODA, et al.
JAPANESE, per, Radioisotopes (Tokyo), Vol 13,
No 6, Nov 1964, pp 455-461. 9233260
AEC NSJ-tr-58

A Whole Body Counter Employing Eight Units of Plastic Scintillation Detectors (1) γ -Ray Performance of a Plastic Scintillation Detector Unit, by Takeshi A. IINUMA, Norimasa NOHARA
JAPANESE, per, Radioisotopes (Tokyo), Vol 14,
No 1, Jan 1965, pp 1-7. 9231511
AEC NSJ-tr-59

Report on an Investigation of the Present Utilization of Radioisotope Devices.
JAPANESE, per, Radioisotopes, Vol 14, No 3,
1965, pp 255-267. 9233254
AEC AERE-tr 1048

Observations of Fall-out in Tokyo (II) Determination of Sr-90 and Cs-137 in Rain Water, Vegetables and Soils in Miyake-jima, by Hamaji SUZUKI, Nobuo ITO, et al.
JAPANESE, rpt, Tokyo Metropolitan Isotope Centre,
Ann. Rpt, No 2, pp 87-91, 1963. 9233273
AEC NSJ-tr-54

The Operating Experience of the Ion Exchange Filter for the BWA Reactor, by Z. Begushevskiy, K. Karnovetskiy, 10 pp.
POLISH, rpt. 9233092
AEC WAPD-TR-27

Scientific
Physics

Fundamentals for the Analytical
Mechanics of Shells, by N. A. Kil'chevskiy.
RUSSIAN, bk, 1965, 360 pp.
NLL

Aerodynamics of Rarefied Gases (Collection I)
341 pp.
RUSSIAN, bk, Aerodinamika Razrezhenykh Gazov,
Sbornik I, 1963, pp 1-268. 9700920-V
FTD-MT-64-293

Convective Heat and Mass Transfer in the
Combustion of Chemically Active Substances
in the Boundary Layer on a Porous Surface,
by A. L. Batiyevskiy, A. L. Mosse.
RUSSIAN, bk, Akad Nauk Belorusskoy SSR,
Institut Teplo- i Massoobmena. Teplo- i
Massoobmen tel s Okruzhayushchev Gazovoy
Sredoy, 1965, pp 168-175.
ATD 66-26

Determination of Thermal Properties of
Materials as Functions of Temperature,
by G. A. Surkov.
RUSSIAN, per, Dokl Ak Nauk BSSR, Vol X,
No 1, 1966, pp 22-25.
*NASA TT F-10,187

Investigation of Plasma by the Method of Probing
With Beams of Fast Particles, by L. I. Krupnik,
N. G. Shulika. 19 pp.
RUSSIAN, rpt, Doklad. Predstavienny Na VI Mez-
hdunarodnyy Simpozium Po Ionizatsionny Yav-
leniyam V Gazakh, Parizh, Iyul', 1963,
pp 1-25. 9700946
FTD-MT-65-101

Experimental Investigations of Distribution
Functions of Point Monodirected Sources With
Initial γ -Quanta Energy of 0.661 and 1.25 Mev
in Concrete, Aluminum, Iron, and Lead, by
L. R. Kimel, A. M. Panchenko, et al. 27 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Institut
(Russian), No 2, 1963, pp 28-39. 9700918
FTD-MT-65-30

The Spectral-Angular Distribution of γ -Radi-
ation from the Surface of a Half-Medium With
Evenly Distributed Isotropic Sources, by
V. V. Pavlov. 27 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Institut
(Russian), No 2, 1963, pp 66-77. 9700918
FTD-MT-65-30

Scientific
Physics (Contd)

The Phenomenon of Dimerization of Alkali Metals
and Calculation of Their Thermophysical Prop-
erties to a Temperature of 1500° C, by
L. D. Volyak,
RUSSIAN, per, Inzh Fiz Zhurnal, Vol V, No 3,
1962, pp 51-58.
*NASA TT F-10,159

Calculation of the State of Products of Explo-
sion by the Method of MEasurement of Parameters
of Shock, by L.N. Pyatnitskiy, O.A. Tsukhanova.
13 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol 5, No 5, 1962, pp 21-29. 9700937
FTD-MT-65-183

Study of the Transition of a Turbulent
Boundary Layer into a Laminar One,
by M. E. Deich, L. Ya. Lazarev.
RUSSIAN, per, Inzhenerno-Fizicheskiy
Zhurnal, Vol VII, No 4, 1964,
pp 18-24.
Dept of Navy Tr 4744/APL/JHU TG 230-T470

Representation of the Equation of
State of a Real Gas by Elementary
Functions and Methods of Their
Determination, by Ya. Z. Kazavchinskiy.
RUSSIAN, per, Inzh Fiz Zhur, Vol VII, No 6,
1964, pp 129-134.
NASA TT F-10,078

Calculation of the Main Portion of an Axially
Symmetric Turbulent Stream of a Real Gas, by
V. I. Bakulev. 21 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol 7, No 10, 1964, pp 14-20. 9700945
FTD-MT-65-185

Flame Propagation in Laminar and Turbulent Flows,
by A. P. Kovalev, A.S. Ippolitov, et al. 21 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal
Vol 7, No 11, 1964, pp 28-36. 9700945
FTD-MT-65-185

Experimental Investigation of Heat and
Mass Transfer in the Condensation of
Water Vapour from Moist Air on a Vertical
Surface under Natural Convection Conditions,
by P. M. Srdlik.
RUSSIAN, per, Inzhenerno-Fizicheskiy
Zhurnal, Vol 8, No 2, 1965, pp 243-246.
NLL RTS 3066

Scientific
Physics (Contd)

Buckling and Steady Flutter of Heat-Compressed Panels in a Supersonic Flow, by V. V. Bolotin. RUSSIAN, per, Inzh Zhur, Vol I, No 2, 1961, pp 82-96
NASA TT F-10,106

Calculation of an Axisymmetrical Supersonic Jet Discharging Into a Supersonic Wake Stream or a Still Medium, by V. M. Emel'yanov. RUSSIAN, per, Inzhenernyi Zhurnal, Vol V, No 3, 1965, pp 545-548.
Dept of Navy Tr 4748/APL/JHU T-1820

Elastic Vibrations of a Cylindrical Shell Filled with Liquid, by I. Ye. Shashkov. RUSSIAN, per, Inzhenernyi Zhurnal, Vol 5, No 3, 1965, pp 575-579.
ATD 66-16

Flow Past Slender Sharp Cones in a Viscous Hypersonic Gas Stream, by V. N. Gusev. T. V. Klimova. et al. RUSSIAN, per, Inzhenernyi Zhurnal, Vol V, No 3, 1966, pp 416-424.
Dept of Navy Tr 4746/APL/JHU T 1796

Design of Heat Exchangers with Internal Heat Sources and Heat Sinks, by Yu. I. Danilov, B. M. Galitseyskiy. RUSSIAN, bk, Issledovaniye Teploobmena v Potokakh Zhidkosti i Gaza, 1965, pp 126-136.
*FTD-HT-66-428

Fundamentals of the Analytical Mechanics of Shells, by N. A. Kil'chevskiy. RUSSIAN, per, Izd. Ak. Nauk Ukr. SSSR, 1963, NLL Ref: 6015.49F 1965 (292)

Emissivity of a Pinnacled Surface. Investigation of an Emissive, Pintube System, by Yu. G. Zhulev. Yu. A. Vasanov. RUSSIAN, rpt, Izuchatel'naya Spособnost' Zubchatoy Poverkhnosti, Issledovaniye Izuchatel'noy Sistemy s Orebrennyy Trubkani, 1965.
NASA TT F-10,134

Scientific
Physics (Contd)

Determination of the Overall Error in Measuring Temperature With an Optical Pyrometer, by D. M. Shakhtin, E. V. Levintovich, et al. RUSSIAN, per, Izmeritel'naya Tekhnika, No 12, 1965, p 69.
Dept of Navy Tr 4750/APL/JHU T-1822

On Refining the Classical Flexure Theory of Anisotropic Plates, by L. A. Agalovyan. 17 pp. RUSSIAN, per, Iz Ak Nauk Armyansky SSR Ser Fiziki Matematicheskikh Nauk, Vol XVIII, No 5, 1965, pp 16-30.
ACSI 1-9326
ID 2204014166

On the Theory of Raman Scattering of Light by a Molecule, by K. Rebane, T. Rebane. 15 pp. RUSSIAN, per, Izvestiya Ak Nauk EstSSR. Seriya Fiziko-Matematicheskikh i Tekhnicheskikh Nauk, Vol 12, No 3, 1963, pp 227-237. 9700938
FTD-MT-65-225

Oxide Films on Silicon, by V. A. Arslambekov. RUSSIAN, per, Iz Ak Nauk SSSR, Neor Material, Vol II, No 2, 1966, pp 217-222.
*AEC

Ion Source With Longitudinal Magnetic Field, by S. V. Starodubtsev, V. A. Muminov. 5 pp. RUSSIAN, per, Izvestiya. AN UZSSR. Seriya-Fiziko-Matematicheskikh Nauk, No 1, 1965, pp 57-59. 9700951
FTD-TT-65-1474

Contributions to the Theory of Adsorption Effect at the Surfaces of Semiconductors and Gels Under the Action of Ionizing Radiation, by D. A. Aronov, et al. RUSSIAN, per, Izv ak Nauk Uzbeksk SSR, Ser Fizmat Nauk, Vol IX, No 5, 1965, pp 63-70
*NASA TT F-10,137

Determining the Temperature Field of Turbine Blades with Longitudinal Air Cooling on the Basis of Asymptotic Methods of Analysis, by I. S. Lyubchenko. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy Aviatsionnaya Tekhnika, No 3, 1965, pp 98-107.
ATD 66-51

Scientific
Physics (Contd)

Detection of the Rapid Halation of Photoionization and the Cloud of Concentrated Long-Life Ionization Resulting from the Shock Wave of a Spark in a Laser Beam, by G. A. Askar'yan, M. S. Rabinovich, et al. 3 pp.
RUSSIAN, per, Journal of Experimental and Theoretical Physics, Vol I, No 6, 1965, pp 18-23. 9700808
Dept of Navy/ONI Tr No 2145

Formation of the Flow Upstream of a C Shock Wave Expelled From a Nozzle, by A. I. Starshinov.
RUSSIAN, per, Leningrad Univ Vestn Ser Mat Mekhan i Astron, Vol XIII, No 3, 1965, pp 125-127.
Dept of Navy Tr 4743/APL/JHU TG 230-T469

Linear Theory of Shells. Part I. General Theory(1962) 274 pp. Part II. Certain Theoretical Problems, by K. F. Chernykh.
RUSSIAN, rpt, Lineynaya Teoriya Obolochek, 1964, 395 p.
*NASA TT F-441

Papers of the 4th Ural Conference on Spectroscopy, by G. P. Skorniyakov et al.
RUSSIAN, bk, Materiialy Chetvertogo Ural'skogo Soveshchaniya po Spektroskopii, 1965, 263 pp.
NLL R. 39764

Charges With Air Spaces and Highly Dispersed Granular Explosives as Means of Controlling Blast Effect, by L. N. Marchenko, G. P. Demidyuk, 10 pp.
RUSSIAN, per, Nauch Soob IGD, Vol XXIV, 1965, pp 22-31. 9700902
Dept of Navy/ONI Tr No 2199

Three-Dimensional Flow of Ideal Gas Past Smooth Bodies, by K. I. Babenko, et al.
RUSSIAN, rpt, Prostranstvennoye Obtekanie Gladkikh Tel Ideal'nym Gazom, 1964.
NASA TT F-380

Non Linear Theory of Elasticity and Stability in the Case of Large Deflections, by V. V. Bolotin.
RUSSIAN, per, Raschety Na Prochnost, No 3, 1958, pp 310-354.
NLL RTS 3024

Scientific
Physics (Contd)

Epitaxial Growth of Germanium Films from Supercooled Droplets, by N. N. Sheftal, RUSSIAN, bk, Rost Kristallov Ak Nauk SSSR, Inst Kristallografi, No 4, 1964, pp 14-21.
*FTD-HT-66-435

Polarography as a Method of Studing Tautometry of Organic Compounds, by Yu. P. Kitayev.
RUSSIAN, rpt, Teoriya i Praktika Polyarograficheskogo Analiza, Materialy Pervogo Vsesoyuznogo Soveshchaniya po Polyarograficheskomu Analizu Akademiy Nauk, 1962, pp 88-93.
ACSI Y-9692.
ID 2204025566

Polarographic Study of Stereoisomeric Changes of Some Semi- and Thiosemi-Carbozones in Solutions, by G. K. Budnikov.
RUSSIAN, rpt, Teoriya i Praktika Polyarograficheskogo Analiza, Materialy Pervogo Vsesoyuznogo Soveshchaniya po Polyarograficheskomu Analizu Akademiy Nauk, 1962, pp 395-398.
ACSI Y-9692
ID 2204025566

Heat Transfer to Liquids Boiling in Pipes and During Bulk Boiling, by I. T. Aladiev, 12 p.
RUSSIAN, per, Termoenergetika, Vol X, 1963, pp 57-61. 9700470
RSIC-530

Application of Characteristics Method to Numerical Solution of Unidimensional Problems in Gas Dynamics, by A. I. Zhukov.
RUSSIAN, per, Trudy Mat Inst Ak Nauk SSSR, No 58, 1960, 149 pp.
*NASA TT F-298

Parabolic Reflector With Screens, by V. V. Vitkevich, P. D. Kalachev.
RUSSIAN, per, Trudy of the P. N. Lebedev Physics Institute, Radioteleskopy, Vol XXVIII, 1965, pp 46-50.
*ACSI J-0328
ID 2204037366

Scientific
Physics (Contd)

Investigation of Effect of Interstitial Impurities on the Structure and Properties of Tungsten Single Crystals, by Ya. M. Savitski, G. L. Tsarov. RUSSIAN, per, Vesti Ak Nauk SSSR Ser Fiz. Tekhn Nauk, No 2, 1965, pp 84-91.
*NASA TT F-10,157

Soviet Nonlinear Laser Work, by N. V. Karlov. RUSSIAN, per, Vest Ak Nauk SSSR, No 8, 1965, pp 82-84.
*FTD-HT-66-458

Use of the Method of "Extraction Sections" for the Computation of Shielding Not Containing Hydrogen, by D. L. Broder, et al. RUSSIAN, rpt, Voprosy Fiziki Yashchity Reaktorov, 1965, pp 52-60.
*NASA TT F-10,155

The Mechanism of Action of Explosion and Properties of Explosives, by G. P. Demiduk, 27 pp. RUSSIAN, per, Vzryvnoye Delo, Symposium 45/2. 9700725
Dept of Navy/ONI Tr No 1063

Kinetic Description of a Rarefied Fully Ionized Plasma, by A. M. Dyukalov. RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 6, 1964, pp 39-49.
*FTD-HT-66-399

Theory of Pulse Discharges in a Liquid Medium, by V. V. Arsent'yev. RUSSIAN, per, Zh Prik Mekh i Tekh Fiz, No 5, 1965, pp 51-57.
*NASA TT F-10,147

Fabry-Perot Interferometer in the Microwave Region of the Spectrum and Its Use for Plasma Diagnostics, by Balakhanov, Striganov, 11 pp. RUSSIAN, per, Zhur Prikladnoy Spektroskopii Ak Nauk Belorusskoy SSR, Vol III, No 4, 1965, pp 311-319. 9700841
Dept of Navy/ONI Tr No 2198

Problems of Oscillations of a Fluid Subjected to Surface Tension Forces, by M. M. Moiseyev, F. L. Chernous'ko. RUSSIAN, per, Zh Vych Mat i Mat Fiz, Vol V, No 6, 1965, pp 1071-1095.
*NASA TT F-10,141

Scientific
Physics (Contd)

A Device for Compensating the Linear Shift of an Image During Oblique Photography With a Successive-Frame Aerial Camera, by A. I. Sizov. 3 pp. RUSSIAN, Patent No. 165374, 30 Dec 1963, 1 pp. 9700956
FTD-HT-66-86

Air-Coupled Surface Waves, by O. F. Hastrup, 16 pp. DANISH, rpt, Luftkoblede Overfladebolger, Dec 1961, F.993.01-1, QHA 1461. 9700738
Dept of Navy/ONI Tr No 2188

Photospectrometric Study of Long Sparks in Air, By Arlette Vassy, Harald Norinder, et al 21 pp. FRENCH, per, J of Arkiv for Fysik, Vol VI, No 42, 1953, pp 437-450. 9700889
Dept of Navy/ONI Tr No 2184

Magnetoresistance os Single Crystals of Iron in Saturated Fields, Part I. Residual Resistance, by Ch. Bazan. 8 pp. GERMAN, per, Acta Physica Polonica, Vol XXVIII, No 6(12), 1965, pp 777-782.
Dept of Navy Tr 4771/NRL Tr 1060

Structure of Defects in Alkali Halide Crystals, by Heinz Pick, 83 pp. GERMAN, per, Ergebnisse det Exakten Naturwissenschaften, Vol XXXVIII, 1965, pp 1-83. 9700464-V
Dept of Navy/ONI Tr No 2189

Stereoscopy in the Service of Isochromatic and Heterochromatic Photometry, by C. Pulfrich. 52 pp. GERMAN, per, Die Naturwissenschaften, Vol X, No 25, 23 Jun 1922, pp 553-564; No 27, 17 July 1922, pp 596-601; No 33, 18 Aug 1922, pp 714-722; No 34, 25 Aug 1922, pp 735-743; No 35, 1 Sept 1922, pp 751-761.
ACSI I-9857
ID 2204007866-V

Surface Structures and Crystal Structure Defects in Electron-Microscopic Image Investigated by Means of NaCl Crystals, by H. Bethge, Part I, 30 pp. GERMAN, per, Physica Status Solidi, Vol II, No 1, 1962, pp 3-27.
Dept of Navy Tr No 4770/NRL Tr No 1059

Scientific
Physics (Contd)

Surface Structures and Crystal Structure Defects in Electron-Microscopic Image Investigated by Means of NaCl Crystals, by H. Bethge. Part II. 85 pp.
GERMAN, per, Physica Status Solidi, Vol II, No 7, 1962, pp 775-820.
Dept of Navy Tr 4738/NRL Tr No 1055

Anisotropic Plastic Deformation, by Th. Lehmann. GERMAN, per, Rheologica Acta, Vol 3, No 4, 1964, pp 281-285.
AEC ORNL-tr-1278
EDC 7/20/66

Skyshine Measurements and Their Comparison with Estimates from Diffusion Theory, by G. Bathow and U. Clausen, et al,
GERMAN, bk, Skyshine-Messungen und ihr Vergleich mit Abschätzungen aus der Diffusionstheorie, Desy-66/3.
*AEC-ORNL-Tr-1249
EDC 7/21/66

Intense Emission of Secondary Electrons by Incompact Layers of BaF₂, by Hellmut Seiler, Manfred Stark, 14 pp.
GERMAN, per, Zeit Angew Phys, Vol XIX, No 2, 1965, pp 90-93. 9233098
AEC SLAC-TR-40

A Microwave Method for Detection of Intense Shock Waves in Nonconducting Solids, by H. D. Vom Stein, B. Koch,
GERMAN, per, Zeit fur Naturforschung, Vol XXa No 1, 1965, pp 157-159.
*Dept of Navy/NRL

Natural Width of Pressure Broadening of Spectrum Lines, by R. Minkowski.
GERMAN, per, Zeit. Fur Physik, Vol 36, 1926, pp 839-858.
*AEC ORNL-tr-1277
EDC 7/20-66

Comment on the Multiple Emission of Secondary Electrons, by R. Kollath, K. H. Simon.
GERMAN, per, Z fur Physik, Vol CLXXIX, 1964, pp 274, 275.
AEC-ORNL-tr-1266

Investigations on the Multiple Emission of Secondary Electrons, by Peter Haussler.
GERMAN, per, Z fur Physik, Vol CLXXIX, 1964, pp 276-284.
AEC-ORNL-tr-1267

Scientific
Physics (Contd)

A Gamma Quantum Spectrometer for Measurements in the Atmosphere, by K. Kohn.
GERMAN, per, Z fur Phys, Vol CXCI, No 3, 1966, pp 443-458.
*AEC

Experimental Studies of Steam-Water Separator for Boiling Water Reactors,
JAPANESE, rpt, Ishikawajima-Harima Eng. Rev. (Tokyo), Jan 1965, pp 11-19. 9233257
AEC NSJ-tr-62

Variation with Temperature of the Infra-Red Spectrum of Polyvinyl Chloride. Part II. Behaviour in the Region of the Glass Transition Temperature, by Koji Fukawa.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 66, No 11, 1963, pp 1605-1609.
NLL Ref: 5207B 1965 (1127)

Application of Physics in Production, 7 pp.
RUMANIAN, per, Stiinta si Tehnica, Vol 17, No 3, Mar 1966, pp. 3-5, 12.
JPRS 36029

Glass Microelectrodes with Metal Conductors for Extracellular Recording of Potentials, by L. V. Reshod'ko and O. P. Vetrov, 6 pp.
UKRAINIAN, per, Fiziologichnyy zhurnal, Vol XII, No 2, Mar-Apr 1966, pp. 272-274.
JPRS 36165

Optical Properties of Mercury Sulfide, by B. F. Bilen'kiy, M. V. Pashkovskiy.
UKRAINIAN, per, Ukrains'kii Fizichnii Zhurnal, Vol VIII, No 8, 1963, pp 913-915.
Dept of Navy Tr 4742/APL/JHU TG 230-T463

Scientific
Miscellaneous

Problems of Morphological Analysis in
Machine Translation From the Georgian Language
by L. Tamarashvili.

RUSSIAN, per, Trudy Instituta Elektroniki
Avtomatiki i Telemekhaniki AN GSSSR,
Vol. IV, 1963, pp 11-20.
*FED ET-66-446

Fourth All-Union Scientific and Technical
Conference on Quality Control and Non-
Destructive Testing, by B. S. Fayerman, 5 pp.
RUSSIAN, per, Zavodskaya Laboratoriya, No 1,
Jan 1966, pp. 126-128.
JPRS 36183

Candidates for Academicians and Corresponding
Members of the Bulgarian Academy of Sciences,
5 pp.
BULGARIAN, np, Otechestven front, 15 May 1966,
pp. 3, 4.
JPRS 36196

Documentation and Scientific Information.
Problems and Trends, by Maria Dembowska.
POLISH, rpt, Dokumentacja i Informacja Naukowa
-- Zarys Problematyki i Kierunki Rozwoju,
Warsaw, 1965, 146 pp.
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INFORMATION RECEIVED DURING JULY

ON COVER-TO-COVER TRANSLATIONS

Doklady Akademii Nauk SSSR, Biological Section,
Vol CLXIII, No 1-6, Jul-Aug 1965.
CB

Doklady Akademii Nauk SSSR, Earth Science Section,
Vol CLXV, No 1-6, Nov/Dec 1965.
Am Geol Inst
Vol CLXV, No 1-6, June 1966

Doklady Akademii Nauk SSSR, Phys Section,
Vol CLXV, No 4-6, December 1965.
Am Inst Phys
Vol X, No 12, June 1966

Doklady Akademii Nauk SSSR, Physics Section,
Vol CLXVI, No 1-3, Jan 1966.
Am Inst Phys
Vol XI, No 1, July 1966

Elektrosvyaz, Vol XX, No 1, 1966.
IEEE

Fizika Tverdogo Tela, Vol VIII, No 1, 1966.
Am Inst Phys
Vol VIII, No 1, July 1966

Genetika, No 4, 1966.
JPRS 36631

Geodeziya i Kartografiya, No 4, 1965.
Am Geophysical Union

Gigiyena Truda i Professional'nyye Zabolevaniya,
Vol X, No 4, 1966.
JPRS 36341

Izvestiya Akademii Nauk SSSR, Atmosfere i Okeano-
licheskii, Vol I, No 12, 1965.
Am Geophys Union

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya,
No 12, 1965,
Am Geophysical Union

Klinicheskaya Meditsina, Vol XLIV, No 2, 1966.
JPRS 36283

Klinicheskaya Meditsina, Vol XLIV, No 3, 1966.
JPRS 36288

Klinicheskaya Meditsina, Vol XLIV, No 4, 1966.
JPRS 36301

Meditsinskaya Promyshlennost SSSR, Vol XX,
No 4, 1966.
JPRS 36332

Radiotekhnika, Vol XXI, No 1, 1966.
IEEE

Radiotekhnika i Elektronika, No 12, 1965.
IEEE

Referativnyi Zhurnal Mekhanika, No 2, 1966.
Ministry of Aviation

Referativnyi Zhurnal Mekhanika, No 1, 1966.
Ministry of Aviation

Sovetskoye Zdravookhraneniye, Vol XXV, No 3, 1966.
JPRS 36276

Sovetskoye Zdravookhraneniye, Vol XXV, No 4,
1966.
JPRS 36290

Steklo i Keramika, Vol XXII, No 7-8, 1965.
CB

Vestnik Akademii Nauk SSSR, Vol XXXVI, No 2, 1966.
JPRS 36291

Vestnik Akademii Meditsinskikh Nauk SSSR, No 6,
1966.
*JPRS/1885

Vestnik Meditsinskikh Nauk SSSR, Vol XXI, No 4,
1966.
JPRS 36357

Vestnik Protivovozdukhnoy, No 5, 1966.
*ACSI J-0347
ID 2204037766

Zhurnal Analiticheskoi Khimii, Vol XX, No 9,
1965.
CB

Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki, Vol XLIX, No 5, Nov 1965.
Am Inst Phys
Vol XXII, No 5, 1966

Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy
Fiziki, No 3, 1963.
FTD-MT-64-85

Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi
Fiziki, No 1, Jan/Feb 1965.
Paraday Press

Zhurnal Tekhnicheskoi Fiziki, Vol XXXVI, No 1,
1966.
Am Inst Phys
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No 4, 1966

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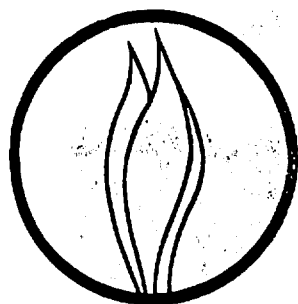
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* * *



Washington, DC 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, appearing to read "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

Wednesday, August 25, 2004

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