

UNCLASSIFIED

AD NUMBER
AD829939
NEW LIMITATION CHANGE
TO Approved for public release, distribution unlimited
FROM Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Feb 1968. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505.
AUTHORITY
CIA ltr, 7 Sep 2004

THIS PAGE IS UNCLASSIFIED

FOR OFFICIAL USE ONLY

AD829939



6
**CONSOLIDATED
TRANSLATION
SURVEY.**

Number 122,

11
29 Feb 68

AD No. _____
DDC FILE COPY

13 2.37 p.

DDC
RECEIVED
APR 15 1968
REGULATED
- D -

CENTRAL INTELLIGENCE AGENCY
Washington, D.C. 20505

FOR OFFICIAL USE ONLY

(077 650)

CONSOLIDATED TRANSLATION SURVEY

FOR FEBRUARY 1968

TABLE OF CONTENTS

	<u>Page</u>
Preface	iii
Requests for Copies	iv
USSR	
Economic	1
Political	17
Military	17
Geographic	19
Sociological	19
Biographic	20
Eastern Europe	
Economic	20
Political	31
Military	33
Geographic	35
Sociological	35
Western Europe	
Economic	37
Political	38
Military	39
Geographic	39
Sociological	40
Africa	
Economic	40
Political	42
Military	43
Geographic	43
Sociological	44
Middle East	
Economic	44
Political	45
Military	48
Sociological	48

	<u>Page</u>
Far East	
Economic	49
Political	50
Military	52
Sociological	53
Latin America	
Economic	53
Political	54
Military	55
Geographic	55
Sociological	56
World Wide	
Economic	55
Political	55
Scientific	
Aeronautics	57
Agriculture	58
Astronomy & Astrophysics	59
Atmospheric Sciences	60
Behavioral & Social Sciences	62
Biological & Medical Sciences	63
Chemistry	81
Earth Sciences & Oceanography	86
Electronics & Electrical Engineering	90
Energy Conversion (Non-Propulsive)	98
Materials	99
Mathematical Sciences	109
Mechanical, Industrial, Civil & Marine Engineering	113
Methods & Equipment	120
Missile Technology	122
Navigation, Communications, Detection & Countermeasures	123
Nuclear Sciences & Technology	124
Physics	129
Propulsion & Fuels	139
Space Technology	140
Miscellaneous	141
Information on Cover-TO-Cover Translations	146
Index to Authors	215

CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly from lists received through the cooperation of US government agencies and includes universities, research institutions, and commercial translation organizations. It is a compilation of projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

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

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

REQUEST FOR COPIES

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

Addresses of producers to follow:

ACIC - Aeronautical Chart and Information Center
(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AERE Harwell Lib

Atomic Energy Research Establishment
Harwell, Berkshire
England

AF

Department of Air Force
Assistant Chief of Staff, Intelligence
ATTN: AFCIN-3D
Washington 25, D. C.

AFCRL Res Lib

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

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/JHU

The Johns Hopkins University
Applied Physics Laboratory
8621 Georgia Avenue
Silver Spring, Maryland 20910

BISI

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

CB

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

CFSTI

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

CTT

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

DIA

Defense Intelligence Agency
Washington, D. C. 20301

Emmanuel Coll Res Lang Ctr - (see AFCRL)

FTD - Foreign Technology Division (see AF)

HB

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

IEEE

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

Dept of Interior

Department of Interior
Bureau of Foreign Fisheries (Translations)
Division of International Affairs
Bureau of Commercial Fisheries
Room 8015
Washington, D. C. 20240

IPST

Israel Program for Scientific Translation
14 Shammai Street
P.O. Box 7145
Jerusalem, Israel

JPRS

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

NASA

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

Natl Bu Stand

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

NIC

Naval Intelligence Command
Naval Intelligence Command Headquarters
NIC-15
Washington, D. C. 20350

NIH

Circulation Unit
Readers Services Section
Library Branch, DRS
National Institutes of Health
Building 10, Room 5N118
Bethesda, Maryland 20014

NLL

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

NMS

U. S. Naval Medical School
National Naval Medical Center
Bethesda, Maryland 20014

NRL

U. S. Naval Research Laboratory
Washington, D. C. 20390

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

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

Patent Office

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

Plenum Press

Plenum Press, Incorporated
227 West 17th Street
New York, New York 10011

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

Sci & Tech Info Facility

Scientific & Technical Information Facility
National Aeronautics and Space Administration
Goddard Space Flight Center
Contract No NAS-5-12487

UCRL

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

USSR

Economic

Urban Renewal, 18 pp.
RUSSIAN, per, Arkhitektura, No 14-15, 9 July 1967, pp 1-18.
DLA LN 238-68

Review of 50 Years of the Motor Vehicle Industry, 13 pp.
RUSSIAN, journal, Avtomobil'naya Promyshlennost', Moscow, No. 10, Oct 67, pp. 1-4.
JPRS 43,859

Methods for Raising the Rates of Construction of Enterprises of the Precast Reinforced Concrete and Quarrying Industries, 6 pp.
RUSSIAN, per, Beton i Zhelezobeton, No 8, Aug 1967, pp 1-3.
JPRS 43781

Deputy Minister of Finances Recommends Improvements in Bookkeeping, by I. Gushkov, 12 pp.
RUSSIAN, per, Bukhgalterskiy uchët, No. 10, Moscow, Oct 67, pp. 5-13.
JPRS 43,833

Development of Mechanized Accounting Traced, by V. Isakov, 16 pp.
RUSSIAN, per, Bukhgalterskiy uchët, No. 10, Moscow, Oct 67, pp. 35-48.
JPRS 43,833

Development of Economic Analysis in USSR, by M. Bakanov, 12 pp.
RUSSIAN, per, Bukhgalterskiy uchët, No. 10, Moscow, Oct 67, pp. 48-56.
JPRS 43,833

Bookkeeping Regulations Issued by Ministry of Finances, 7 pp.
RUSSIAN, per, Bukhgalterskiy uchët, No. 10, Moscow, Oct 67, pp. 76-79.
JPRS 43,833

Improved Planning Needed in Power Station Construction, by A. A. Sedov, 9 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, No 10, Oct 1967, pp 30-32.
JPRS 43657

A Development Program for the Construction Industry, 10 pp.
RUSSIAN, journal, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 11, 1967, pp. 25-28.
JPRS 44017

USSR
Economic (Contd)

On the Sequence of Planning, Designing and Financing Common Construction at Industrial Parks, 6 pp.
RUSSIAN, journal, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 12, Dec 67, pp. 3-5.
JPRS 44,167

Fifty Years of Technical Progress in Kazakhstan, by A.S. Zhakishev, 9 pp.
RUSSIAN, journal, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 12, Dec 67, pp. 27-30.
JPRS 44,167

Nomenclature-Price Lists Classify Production Stocks, by I. G. Sustretov, 6 pp.
RUSSIAN, per, Byulleten' Tekhniko-Ekonomicheskoy Informatsii, No 11, 1967, pp 33-36.
JPRS 43771

Specialized Enterprises Organized to Repair Household Appliances in RSFSR, by B. Ye. Fishman, 6 pp.
RUSSIAN, per, Byulleten' Tekhniko-Ekonomicheskoy Informatsii, No 11, Nov 1967, pp 36-38.
JPRS 43771

Ukrainian Banks Help in New Economic Reform, by G. Kovalenko, 12 pp.
RUSSIAN, per, Den'gi i kredit, No 9, Oct 1967, pp 3-8.
JPRS 43776

Credit and the Timber Industry, by N. Berezin, 9 pp.
RUSSIAN, per, Den'gi i Kredit, Moscow, No. 9, Sept. 67, pp. 14-19.
JPRS 43,839

Development of Gosbank USSR Traced, by A. Poskonov, 14 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 11-20.
JPRS 43876

Money in the Service of the Building of Communism, by V. Vorob'yev, 16 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 21-31.
JPRS 43876

The Role of Credit in Social Production, by V. Karabekov, 13 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 32-40.
JPRS 43876

USSR
Economic (Contd)

Credit Relationships in the Period of the Building of the Communist Society, by N. Parkovskiy, 11 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 41-48.
JPRS 43876

Currency Monopoly and International Accounts of the USSR, by P. Nosko & M. Polyakov, 12 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 49-56.
JPRS 43876

Gosbank Personnel and Their Training, by I. Borychev & G. Matveyev, 12 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 57-64.
JPRS 43876

Data on the Growth of the State Bank USSR, 13 pp.
RUSSIAN, per, Den'gi i Kredit, No 10, 1967, pp 85-95.
JPRS 43876

Gosplan Worker Discusses Changes in 1968 Plan, by M. Chistyakov, 7 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 40, Oct 1967, p. 11.
JPRS 43431

Soviet-GDR Trade Relations, by Kurt Enkelmann, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 40, Oct 1967, pp 18-19.
JPRS 43329

Development of Soviet-GDR Economic Relations, by Gerhard Shurer, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 40, Oct 1967, pp 18-19.
JPRS 43329

Kazakh Industrial Development Appraised, by A. Koleyev, 6 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 40, 1967, p 22.
JPRS 43431

Conference to Discuss Economic Management, 6 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 40, Oct 1967, p 27.
JPRS 43431

Improvements in the Economic Structure of Moldavia, by V. Chervinskiy, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 41, Oct 1967, p 18.
JPRS 43421

USSR
Economic (Contd)

Effects of the New System of Planning At the Orekhovskiy Cotton Combine, by S. Anufriyenko, 8 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 42, Oct 1967, pp 11-12.
JPRS 43337

Evaluation of the Economic Effectiveness of the Activity of Trade Organizations and Enterprises, by G. Blank, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 42, Oct 1967, p 28.
JPRS 43337

Development of the Chelyabinsk Tractor Plant, by G. Zaychenko, 5 pp.
RUSSIAN, weekly, Ekonomicheskaya Gazeta, Moscow, No. 44, Nov 67, p. 15.
JPRS 43,859

Growth of Soviet Foreign Trade Evaluated, by N. Patolichev, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 44, Nov 1967, pp 28-29.
JPRS 43611

New System of Planning and Management in RSFSR, by K. Gerasimov, 9 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 45, Moscow, Nov 67, pp. 10-11.
JPRS 43,838

Criteria for the Geographical Distribution of Industry, by M. Pervukhin, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 45, Moscow, Nov 67, p. 16.
JPRS 44,024

Standards of Quality Reevaluated, by Ya. Kotlikov, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 45, Moscow, Nov 67, p. 18.
JPRS 43,863

Electrification Plans Outlined for Ukrainian Countryside, by K. Pobegaylo, 6 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 45, Nov 1967, pp 35.
JPRS 43748

Minister Outlines Development of Lumber and Paper Industry, by N. Timofeyev, 11 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 46, Nov 1967, pp 6-7.
JPRS 43756

Increases in Wages and Labor Productivity Must Balance, by L. Nezhinskaya and V. Guys, 5 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 46, Moscow, Nov 67, p. 10.
JPRS 43,794

Overstaffing of Administrative Personnel Scored, by V. Demchenkov and A. Savel'yev, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 46, Nov 1967, p 13.
JPRS 43634

Public Catering: Experience and Problems, by D. Pavlov, 21 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 46, Nov 1967, pp 23-26.
JPRS 43756

New Soviet Artistic Product Designs, by I. Bol'shakov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 46, Nov 1967, p 27.
JPRS 43634

Considering Psychological Factors in Labor Productivity, by A. Orlov, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 46, Moscow, Nov 67, p. 30.
JPRS 43,794

Soviet-Bulgarian Economic Cooperation, by A. Angelov, 7 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 46, Moscow, Nov 67, pp. 40-41.
JPRS 43,799

Decree on Material Responsibilities of Enterprises, by A. Kosygin and M. Smirnyukov, 11 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 47, Moscow, Nov 67, pp. 3-4.

Conference on the International Working-Class Held in Moscow, 19 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 47, Moscow, Nov 67, pp. 5-7.
JPRS 43,810

Capital Return and Production Efficiency, by V. Ivanchenko, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 47, Moscow, Nov 67, pp. 9-10.
JPRS 43,810

Prospects and Problems of Turkmen Oil and Gas, by Ye. Kozlov, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 47, Moscow, Nov 67, p. 19.
JPRS 43,796

Changes in State Statistical Reporting, by T. Volkov, 13 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No. 47, Moscow, Nov 67, pp. 20-21.
JPRS 43,810

Recent Activities of the State Agrochemical Service in the RSFSR, by A. Postnikov, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, Moscow, No. 47, Nov 67, p. 27.
JPRS 43,795

Open-Pit Method of Coal Mining Recommended, by L. Grafov, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 48, Nov 1967, p 6.
JPRS 43946

Industrial Specialisation Recommended, by V. Kasakov, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Nov 1967, p 12.
JPRS 43970

Improved System of Settling Accounts Proposed, by V. Rybin, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Nov 1967, p 13.
JPRS 43970

Branch Administrations Must Draw General Plans for Plant Specialization, by S. Mustafina, 5 pp.
RUSSIAN, weekly, Ekonomicheskaya Gazeta, No. 48, Moscow, Nov 67, p. 14.
JPRS 43,863

The Structure of Consumer Demand, by S. Partigul and R. Nazarov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Moscow, Nov 67, p. 15
JPRS 43,863

Quality Control System Introduced at Saratov Plants, by B. Dubovikov, 16 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 48, Moscow, Nov 67, pp. 18-19.
JPRS 43,843

Changes in Instrument-Making Techniques, by V. Bigishev, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Nov 1967, p 20.
JPRS 43947

New List of Occupations Prepared, by N. Izvol'skaya, M. Karlova, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, No 48, Nov 1967, p 27.
JPRS 43980

Production Capacities Must be Mastered More Fully, 5 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 49, Moscow, Dec 67, p. 3.
JPRS 44,024

The Balance Method of Planning, by P. Krylov, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 49, Dec 1967, pp 10-11.
JPRS 43914

Industrial Contract Violators Hinder Production, by Vasil'y Selyunin, 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 49, Moscow, Dec 67, p. 12.
JPRS 44,012

Conference on Bookkeeping Held in Odessa, by Yu Konstantinov, 10 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 49, Moscow, Dec 67, pp. 15-16.
JPRS 44,024

Following the Gor'kiy Conference, by V. Dykin, 5 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No.49, Moscow, Dec 67, p. 32.
JPRS 44,011

Conference on the Chemical Industry and Consumer Goods, 13 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 50, Moscow, Dec 67, pp. 6-8.
JPRS 44,011

Tol'yatti Rubber Plant Exceeds Capacity, by N. Timchenko, 5 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 50, Moscow, Dec 67, p. 15.
JPRS 44,156

Organization and Management of Pure and Applied Science, by Yu. Sheynin, 13 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 50, Moscow, Dec 67, pp. 18-19.
JPRS 44,014

Fisheries' Minister Interviewed on Industry Development, by A. Baranov, 12 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 50, Moscow, Dec 67, pp. 20-21.
JPRS 44,155

An Interview With First Deputy Chairman of the Council of Ministers Ukrainian SSR, 7 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 51, Moscow, Dec 67, pp. 4-5.
JPRS 44,116

Further Improvement in Product Quality Urged, 19 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 51, Moscow, Dec 67, pp. 24-26.
JPRS 44,116

Diversion of Engineers and Skilled Workers to Construction Work Decried, by Yef. Klenov 6 pp.
RUSSIAN, newspaper, Ekonomicheskaya Gazeta, No. 51, Moscow, Dec 67, p. 32.
JPRS 44,160

Economic Reform and Centralized General State Funds, by P. Vasil'yev and N. Shirkevich, 12 pp.
RUSSIAN, per, Ekonomicheskkiye nauki, No 9, Sept 1967, pp 24-31.
JPRS 43385

Bases of Regulation of Demand and Supply of Popular Consumption Goods, by A. Levin, 12 pp.
RUSSIAN, per, Ekonomicheskkiye Nauki, No 10, Oct 1967, pp 63-70.
JPRS 43653

Communist Vs Capitalist Economic Achievements, by N. Oparin, 17 pp.
RUSSIAN, per, Ekonomicheskkiye Nauki, No 11, 1967, pp 16-28.
JPRS 43914

Criteria for Planning Efficiency Evaluated, by P. Bunich, 23 pp.
RUSSIAN, per, Voprosy ekonomiki, No 10, Oct 1967, pp 46-58.
JPRS 43668

Regional Cost and the Market of the Council of Economic Mutual Assistance, by O. Tarnovskiy, 17 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1967, pp 81-92.
JPRS 43727

On the Tasks of the National-Economic Optimum, by A. Aganbegyan, K. Bagrinovskiy, 8 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1967, pp 116-122.
JPRS 43769

The Economic and Juridical Aspects of Responsibility, by A. Koshkarev, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1967, pp 143-145.
JPRS 43634

Demand and Long-Range Planning, by V. Neznanov, 6 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 10, Oct 1967, pp 146-148.
JPRS 43634

Kiev Discusses Aspects of Expansion of Economic Cooperation among Socialist Countries, by M. Bulash and H. Klimko, 5 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1967, pp 153-155.
JPRS 43624

Leningrad Economists Analyze Production Effectiveness, by A. Stepankov, 10 pp.
RUSSIAN, per, Voprosy ekonomiki, No 10, Oct 1967, pp 154-157.
JPRS 43668

Improvements in the Trade Structure of Social Production and Their Effectiveness, by L. Berri, 21 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1967, pp 85-89.
JPRS 43970

Proposals for Raising Production Effectiveness on a CEMA-Wide Scale, by M. Usiyevich, V. Shabunina, 19 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1967, pp 98-108.
JPRS 43997

Moscow International Conference on Significance of October Revolution, by N. Lopukhova, 10 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1967, pp 144-147.
JPRS 43997

Production Figures and Location of Automotive Industry, 8 pp.
RUSSIAN, per, Za rulem, No 10, Oct 1967, pp 16-17.
JPRS 43932

Development Of The City Of Kadiyevka.
RUSSIAN, per, Zhiliishchnoye Stroitel'stvo, No 8, 1967, pp 3-5.
DIA LHM 330-68

Development Of The Industrialization of Residential Construction In The USSR, by M. Pushkareba & G. Ssherbo, 19 pp.
RUSSIAN, per, Zhiliishchnoye Stroitel'stvo, No 8, 1967, pp 5-10.
DIA LHM 330-68

Economics and Improvement of Structural Systems in High-Rise Buildings by M. Lyubimova, 8 pp.
RUSSIAN, per, Zhiliishchnoye Stroitel'stvo, No 8, 1967, pp 20-22.
JPRS 43381

The Perfection of Transshipment Technology in Soviet Ports, by M. Beljakov, 16 pp.
GERMAN, per, Schiffbau Technik, Vol 10, Oct 1967, pp 592-597.
DIA LHM 353-68

Soviet Economist Believes Decentralization of Economic Planning Necessary for Progress, by Kjell Gjostein Reel, 8 pp.
NORWEGIAN, per, Orientering, No 39, 4 Nov 1967, pp 11 and 14.
JPRS 43768

Khar'kov Plant Improves Steam Turbine Design, by E. Ye. Fridman, 12 pp.
RUSSIAN, per, Teploenergetika, No. 12, Moscow, Dec 67, pp. 2-3.
JPRS 44,013

Fifty-Year History of Soviet Textile Industry, by G. Pikovskiy, 11 pp.
RUSSIAN, journal, Tekstil'naya Promyshlennost, No. 11, Moscow, Nov 67, pp. 58-64.
JPRS 44,142

Distribution of Exports and Imports of the Region by Sea Basins and their Ports, 10 pp.
RUSSIAN, per, Trudy, Vol 6, 1965, pp 79-85.
DIA LN 89-68

Principal Characteristics on the Sea Transport, by G. G. Kolesnikoff and E. D. Rudin, 28 pp.
RUSSIAN, per, Trudy, Vol 6, 1965, pp 5-21.
DIA LN 86-68

Economic Aspects of Nonferrous Metallurgy Development, by Nikolay Timofeyevich Glushkov, 14 pp.
RUSSIAN, per, Tsvetnyye metally, No 10, Oct 1967, pp 13-18.
JPRS 43933

Development of the Gold-Platinum and Diamond Industry, by Konstantin Vasil'yevich Vorob'yev, 21 pp.
RUSSIAN, per, Tsvetnyye metally, No 10, Oct 1967, pp 52-61.
JPRS 43933

Soviet Coal Production in the First Six Months of 1967, 14 pp.
RUSSIAN, per, Ugol', No 10, Oct 1967, pp 67-71.
JPRS 43607

Rapid Strides in Coal Industry Cited, by B.F. Bratchenko, 11 pp.
RUSSIAN, per, Ugol', No. 11, Moscow, 67, pp. 7-12.
JPRS 44,013

Growth of Tool Industry Outlined, by A. I. Kozlov, 6 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 4-7.
JPRS 43670

Analysis of Siberia's Population and Labor Resources based on Krasnoyarskiy Kray, by L.A. Shakhmatova, 11 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta. Seriya Ekonomika, No. 6, Moscow, Nov-Dec 67, pp. 55-61.
JPRS 43,818

Successes of the Economies of Socialist Countries, by T. Ryabushkin and R. Galetskaya, 16 pp.
RUSSIAN, per, Vestnik Statistiki, No 10, 1967, pp 48-58.
JPRS 43767

The Development of Industrial Production in the USSR and the United States, by L. Tsyrlin, 13 pp.
RUSSIAN, per, Vestnik statistiki, No 11, 1967, pp 13-21.
JPRS 43894

Problems of Designing a New Inter-Branch Accounting Balance for the Soviet Economy (1966), by M. Eydel'man, 24 pp.
RUSSIAN, per, Vestnik statistiki, No 11, 1967, pp 22-35.
JPRS 43894

On the Occasion of the 50th Anniversary of the Great October Revolution - The Communist-Labor Enterprises, 10 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No 10, Oct 1967.
JPRS 43658

Freight For The Petrochemical Industry - Why Does It Stand Undelivered?, 5 pp.
RUSSIAN, np, Vodnyy Transport, 19 May 1966, 16 Aug 1966, 15 Apr 1967, pp 1-4.
DIA I 132-68

Developments in Soviet Ferrous Metallurgy Outlined, by A. Gavrilov and D. Popov, 13 pp.
RUSSIAN, per, Voprosy ekonomiki, No 9, 1967, pp 13-23.
JPRS 43608

Specific Tasks for Developing and Improving the Material and Technical Base for Communism, by I. Oleynik, 20 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1967, pp 120-131.
JPRS 43624

Positive Evaluation of Cooperation in Electric Power Field in CEMA, by N. Afonin, 11 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1967, pp 132-138.
JPRS 43624

Triumph of Lenin's Ideas of the Good of the People, 6 pp.
RUSSIAN, np, Sovetskaya Torgoviya, No. 12, Moscow, Dec 67, pp. 2-5.
JPRS 44,142

Trade in the Third Year of the Five-Year Plan, by K. Skovoroda, 7 pp.
RUSSIAN, np, Sovetskaya Torgoviya, Moscow, No. 12, Dec. 67, pp. 6-9.
JPRS 44, 142

Re-Training and Re-Distribution of Workers, by N. Khaykin, 5 pp.
RUSSIAN, per, Sovetskiye Profsoyuzy, No 16, Aug 1967, pp 14-15.
JPRS 43883

Legal Regulations in Collective Agreements, by I. Dvornikov & V. Nikitinskiy, 7 pp.
RUSSIAN, per, Sovetskiye Profsoyuzy, No 19, Oct 1967, pp 45-47.
JPRS 43898

Development of Labor Legislation Discussed, by L. Ya. Gintsburg, 13 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo, No 11, Nov 1967, pp 85-92.
JPRS 43898

Standardization and the Contemporary Age, by V. V. Boytsev, 6 pp.
RUSSIAN, per, Standarty i kachestvo, No 9, Sept 1967, pp 4-7
JPRS 43668

Unified Economic Classification System Needed, by N. V. Orlov, 10 pp.
RUSSIAN, per, Standarty i kachestvo, No 9, Sept 1967, pp 64-67.
JPRS 43668

Reliability Services Forum Held, 10 pp.
RUSSIAN, per, Standarty i kachestvo, No 9, Sept 1967, pp 72-75.
JPRS 43668

The Training of Standardisation Specialists in the USSR, by V. M. Ogryakov, 11 pp.
RUSSIAN, per, Standarty i Kachestvo, No 10, 1967, pp 6-9.
JPRS 43914

A Single System of Indicators of Quality and Standards for Man, by V. I. Gukov, 8 pp.
RUSSIAN, per, Standarty i Kachestvo, No 10, 1967, pp 19-22.
JPRS 43914

Progress and Goals of Machine-Building Industry Defined, by A.I. Kostousov, 11 pp.
RUSSIAN, journal, Stanki i Instrumenty, No.10, Moscow, Oct 67, pp. 1-6.
JPRS 43,853

Development of Production of Structural Glass during 50 Years, 7 pp.
RUSSIAN, per, Stekloli Kleramika, No 6, June 1967, pp 1-7.
DIA LN 236-68

Wages of Builders for Winter Work, by S.A. Mitin, 5 pp.
RUSSIAN, per, Stroitel', Moscow, No. 10, Oct 67, pp. 25-26.
JPRS 43,837

Development of Wide-Scale Construction in the Soviet Union, by B. Sekhov, 10 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 25 Aug 1967, pp 1-2.
JPRS 43381

Rapid Expansion of Light Industry in USSR, by K. Minasaryan, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 13 Oct 1967, pp 3-4.
JPRS 43337

Progress of Textile Industry Expounded, by L.G. Barabanov, 7 pp.
RUSSIAN, per, Tekstil'naya Promyshlennost', No. 11, Moscow, 11 Nov 67, pp. 1-3.
JPRS 44,142

Growth of Textile Industry Outlined, by A. Korneyev, 10 pp.
RUSSIAN, per, Tekstil'naya Promyshlennost', No. 11, Moscow, 11 Nov 67, pp. 3-9.
JPRS 44,142

Achievements in Agricultural Machine Building Outlined, by I. F. Sinitsin, 11 pp.
RUSSIAN, per, Traktory i selkhoz mashiny, No 10, Oct 1967, pp 1-3.
JPRS 43606

Improved Planning Urged for Kolkhozes,
by F. Savitskiy, 6 pp.
RUSSIAN, newspaper, Sel'skaya Zhizn, No. 296,
Moscow, 20 Dec 67, p. 2.
JPRS 44,163

Labor Incentives and Reserves, by V. Gurush-
kin, 14 pp.
RUSSIAN, per, Sotsialisticheskiy, No 10,
1967, pp 23-32.
JPRS 43777

Management Methods and Incentives, by V.
Firsov, 9 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 33-38.
JPRS 43777

Bonus Indicators and Production Efficiency,
by P. Prosin, 13 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 39-48.
JPRS 43777

Incentives in Ferrous Metals Industry, by A.
Polyanskiy, 10 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 64-70.
JPRS 43777

Material Incentives Section of Branch Scien-
tific-Technical Council, by Kh. Kacher, 6 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 71-74.
JPRS 43777

Five-Day Work Week in Construction Industry,
by V. Kochikyan, 8 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 90-95.
JPRS 43777

Problems of the Five-Day Work Week, by A.
Tret'yakov, 5 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 95-98.
JPRS 43777

Bonuses for New Techniques in State Agricultural
Enterprises, 6 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 10,
1967, pp 139-143.
JPRS 43777

Effect of Reform on Economic and Financial
Activities of Enterprises of Kirghiz SSR, by
A. Toktonaliyev, 5 pp.
RUSSIAN, newspaper, Sovetskaya Kirgiziya,
25 Nov 67, p. 2.
JPRS 43,852

Glorious 50-Year Path From Oppression to
Prosperity in Moldavian SSR, by V.A. Arpent'yev,
6 pp.
RUSSIAN, newspaper, Sovetskaya Moldaviya,
Kishinev, 28 Oct 67, pp.2-3.
JPRS 43,838

Role of Consumer Cooperatives Traced in Retail
Trade, by A. Klimov, 17 pp.
RUSSIAN, per, Sovetskaya Potrebitel'skaya
Kooperatsiya, No. 11, Moscow, Nov 67, pp. 10-
18.
JPRS 43,863

Futures Contracts as the Basis for Economic
Relations, by M. Aganin, 8 pp.
RUSSIAN, journal, Sovetskaya Potrebitel'-
skaya Kooperatsiya, No. 12, Moscow, Dec 67,
pp. 24-27.
JPRS 44,142

Siberian Planner Describes Future of Far
East, 6 pp.
RUSSIAN, newspaper, Sovetskaya Rossiya,
Moscow, 23 Nov 67, p. 1.
JPRS 43,843

Five-Day Working Week Disregarded in Novo-
cherkassk, by V. Sinedubskiy, 5 pp.
RUSSIAN, newspaper, Sovetskaya Rossiya,
Moscow, 28 Dec 67, p. 2.
JPRS 44,160

Soviet-Western Trade Defended against
Western Criticism, by A. Frumkin, 5 pp.
RUSSIAN, np, Sovetskaya Torgovlya, 10 Oct
1967, p 3.
JPRS 43329

Expansion of Food and Trade Services Cited,
by A. Struyev, 13 pp.
RUSSIAN, per, Sovetskaya Torgovlya, No. 11,
Moscow, Nov 67, pp. 2-7.
JPRS 43,863

Some Problems of Optimum Planning in the Fish Industry, by V. K. Bondarenko, L. Z. Sheinis. RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966, pp 90-92.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Commercial Fishery Potentialities of Some Bathypelagic Fishes in the North Atlantic, by F. M. Troyanovskii. RUSSIAN, per, Rybnoe Khoz, Vol 42, No 11, 1966, pp 4-7.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Distribution of Gilthead in the Southeast Atlantic in 1964-1965, by I. A. Trunov. RUSSIAN, per, Rybnoe Khoz, Vol 42, No 11, 1966, pp 11-13.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Books about the Fishing Industry. RUSSIAN, per, Rybnoe Khoz, Vol 42, No 11, 1966, pp 92-94.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Results of the Commercial-Exploratory Fishing of the Asov-Black Sea Scientific Research Institute for Fisheries and Oceanography, by O. I. Sakovets. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 1, 1967, pp 6-8.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Utilisation of Fresh Water Crayfish Stocks, by S. Ia. Brodskii. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 1, 1967, pp 26-27.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Optimum Distribution of Fishing Vessels in Various Oceans as Related to the Time of the Year, by M. A. Khametov. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 1, 1967, pp 84-85.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Work of Reference Units, by L. Lipovetskii. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 2, 1967, pp 72-73.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Capital Investments and Already Installed Capital Plants in the Fishing Industry of the Caspian Region, by V. E. Fedisev. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 2, 1967, pp 74-75.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Modern Economic Management for Commercial Sturgeon Breeding, by V. K. Kiselev. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 2, 1967, p 76.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Laboratory for the Scientific Organisation of Labor at the Caspian Scientific Research Institute of the Fishing Industry, by V. S. Virtsev. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 2, 1967, pp 77-79.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Modernising Technological Equipment Aboard the "Pionersk" Floating Base, by N. P. Muratov. RUSSIAN, per, Rybnoe Khoz, Vol 43, No 3, 1967, pp 46-47.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

On Preventing Breaches of Fish Protection Laws, by A. Berlin. RUSSIAN, per, Rybovodstvo i Rybolovstvo, 1967, No 1, pp 34-35.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Introducing Scientific Labor Organization in Agriculture, by L. Florent'yev, 7 pp. RUSSIAN, np., Sel'skaya Zhizn', 26 Nov 1967, p 2. JPRS 43752

Autonomous Financing Partnership Between Science and Agriculture, by V. Zelenakiy, 4 pp.
RUSSIAN, newspaper, Pravda, Moscow, 18 Sept 1967, p. 2.
JPRS 43,716

Economic Importance of Machine Building Stressed, by V. Novikov, 5 pp.
RUSSIAN, np, Pravda, 24 Sept 1967, p 2.
JPRS 43338

Shortcoming and Suggested Improvements in the Use of Engineering Manpower, by N. Shkol'nikov, 5 pp.
RUSSIAN, per, Pravda, 21 Nov 1967, p 2.
JPRS 43752

Law of Value Under Socialism, by I. Vishnevetskiy, 7 pp.
RUSSIAN, newspaper, Pravda Ukrainy, Kiev, 23 Nov 67, pp. 2-3.
JPRS 43,852

Strides in Soviet Instrument-Making Industry Cited, by V. A. Rukhadze and A. Ts. Chervayovskiy, 8 pp.
RUSSIAN, per, Pribery i sistemy upravleniya, No 10, 1967, pp 31-34.
JPRS 43555

Anniversary Year Is the Year of Work, 4 pp.
RUSSIAN, per, Promyshlennost, No 6, June 1967, pp 1-4.
DIA LN 234-68

Industrial Construction in Lithuania, 4 pp.
RUSSIAN, per, Promyslennoye Stroitelstvo v Litve, No 5, 1967, pp 1-4.
DIA LN 243-68

Achievements of the Ukrainian Nonferrous Metallurgical Industry, by I. Shevchenko, B. Kisilev, 5 pp.
RUSSIAN, np, Rabochaya Gazeta, 21 Sep 1967, p 2.
JPRS 43750

Cooperation of CEMA Member Nations in the Development of Mineral Raw Material Bases, by B.N. Yarovfeyev, 5 pp.
RUSSIAN, journal, Razvedka i Okhrana Nedr, Moscow, No. 10/11, 1967, pp. 121-123.
JPRS 44,111

Utilising Hydrometeorological Data and Prognoses, by K. P. Vasilov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 2, 1966, pp 51-52.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Proper Classification is Needed for the Fishing Fleet, by I. A. Bozhkarev, L. V. Vlasov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966, pp 32-33.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Production Line for the Processing of Fish Products with Sodium Pyrosulfate, by V. Nazarov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966, pp 63-64.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Influence of Trawl Selectivity on Fish Reserves, by M. A. Pavlov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 8, 1966, pp 43-45.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Seminar on Scientific Management,
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 8, 1966, p 81.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Case for a Ban on Fishing of Sheatfish and Trash Fish in the Outer Delta of the Volga, by G. Shibirteev.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 9, 1966, pp 14
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

New Kinds of Fish Products,
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966, p 72.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

USSR
Economic (Contd)

Output Quality and Production Efficiency, by I. Mayevskiy, 12 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 54-63.
JPRS 43725

An Important Stage in the Development of Branch Management, by V. Yershov, 11 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 63-71.
JPRS 43725

New Methods of Planning Capital Investments, by A. Stepun and V. Kozlov, 12 pp.
RUSSIAN, journal, Planovoye Khozyaystvo, Moscow, No. 10, 1967, pp. 77-84.
JPRS 43.837

CEMA Cooperation Cited by M. Lasechko, 13 pp.
RUSSIAN, journal, Planovoye Khozyaystvo, No. 11, Moscow 1967, pp. 17-26.
JPRS 43,851

Development of RSFSR During Soviet Period, by K. Gerasimov, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 27-36.
JPRS 43927

Development of Ukrainian SSR During Soviet Period, by P. Rozenko, 15 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 37-46.
JPRS 43927

Development of Belorussia During Soviet Period, by F. Kokhonov, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 47-56.
JPRS 43927

Development of Kazakh Economy During Soviet Period, by K. Ketebayev, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 57-66.
JPRS 43927

Development of Georgian SSR During Soviet Period, by Ye. Dahaparidse, 10 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 67-73.
JPRS 43927

USSR
Economic (Contd)

Development of Kirgiziya During Soviet Period, by S. Moiseyev, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 74-80.
JPRS 43927

Development of Tadzhik SSR During Soviet Period, by K. Makhkamov, 8 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 81-86.
JPRS 43927

Development of Armenian SSR During Soviet Period, by L. Khachatryan, 6 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 87-90.
JPRS 43927

Development of Turkmen SSR During Soviet Period, by A. Tayliyev, 8 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 11, 1967, pp 91-96.
JPRS 43927

Improvement of the Forms and Methods of Operation of the Organs of State Administration, by I. A. Asovkin, 12 pp.
RUSSIAN, per, Politicheskaya Organizatsiya Sovetskogo Obshchestva, Chap 4, Sect 4, 1967, pp 163-172.
JPRS 43955

Further Expansion of Participation of the Masses in the Work of the Apparatus of State Administration, by I. A. Asovk'in, 9 pp.
RUSSIAN, per, Politicheskaya Organizatsiya Sovetskogo Obshchestva, Chap 4, Sect 5, 1967, pp 173-181.
JPRS 43955

Strengthening Popular Control over the Activity of the Apparatus of State Administration, by P. I. Romanov, 8 pp.
RUSSIAN, per, Politicheskaya Organizatsiya Sovetskogo Obshchestva, Chap 4, Sect 6, pp 182-187.
JPRS 43955

A Scientific Elaboration of the World Socialist System of Economic Relations, by A. Alekseyev, 5 pp.
RUSSIAN, mp, Pravda, 5 Sept 1967, p 4.
JPRS 43329

The Central Boards in the Orbit of Reform, by I. Pustovalov, 6 pp.
RUSSIAN, mp, Pravda, 15 Sept 1967, p 2.
JPRS 43325

Underestimation of Scientific Organization of Labor in Kazakh Agriculture, by P. Chertorogov & A. Kovalev, 6 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 9, Sept 1967, pp 70-74.
JPRS 43683

Increasing the Economy of Turbines, by B. Tikhonov and M. Firsov, 5 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 9, Sept 1967, pp 82-83.
JPRS 43607

New Methods for Calculating Norms in Oil Industry, by Zh. Tankibayev & A. Rayev, 8 pp.
RUSSIAN, per, Narodnoye khozyaystvo Kazakhstana, No 10, Oct 1967, pp 28-30.
JPRS 43929

Shortcomings in the Economic Stimulation System Criticized, 5 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No. 10, Alma-Ata, 1967, pp. 31-32.
JPRS 43,843

Improvements in the Material-Technical Supply System Suggested, by A. Dzhumadilov, 8 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No. 10, Alma-Ata, 1967, pp. 69-72.
JPRS 43,843.

Improved Intraplant Production Capacities Suggested, by N. Mamyrov, 8 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No. 10, Alma-Ata, 1967, pp. 73-76.
JPRS 43,843

Specific Kinds of Technical Literature as Sources of Information on the Achievement Level of Industrial Production (General Characteristics), by E.Ye.Rokitakaya, 8 pp.
RUSSIAN, per, Nauchno-tekhnicheskaya Informatsiya, Series 1, No. 9, Moscow, pp. 8-8, 1967.
JPRS 43,807

Outlines of Soviet Economic and Technical Assistance to Foreign Nations, by S. Skachkov, 8 pp.
RUSSIAN, newspaper, Nedelnya, Moscow, No. 49, Nov-Dec 67, p. 2.
JPRS 44,111

Brief Resume of Oil Industry Development, by V. D. Shashin, 7 pp.
RUSSIAN, per, Naftyanoye Khozyaystvo, No. 10, Moscow, Oct 67, pp. 1-10.
JPRS 43,796

Achievements of the Chemical Industry, by L. A. Kostandov, 10 pp.
RUSSIAN, per, Novyy Mir, No 8, Aug 1967, pp 11-18.
JPRS 43609

Problems of Organizing Scientific Labor, by S. Lisichkin, 12 pp.
RUSSIAN, per, Novyy mir, No 8, 1967, pp 270-277.
JPRS 43354

Industrial Uzbekistan, by Sh. Khodshayev, 8 pp.
RUSSIAN, per, Partiynaya Zhizn', No 10, Oct 1967, pp 40-45.
JPRS 43768

Material Relating to Fish Husbandry Research in the Northern Basin.
RUSSIAN, per, PTIRO, Vol 4, 1964.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Blossoming of Uzbekistan's Economy and Culture, by S. Ziyadullayev, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 16-25.
JPRS 43725

Azerbaijan on the Eve of the Fiftieth Anniversary of the Great October Revolution, by M. Allahverdiyev, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 26-32.
JPRS 43725

The Upsurge of Lithuania's National Economy, by A. Drobnis, 10 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 33-39.
JPRS 43725

Summary of the Economy of Moldavia, by I. Dobyns, 10 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 40-47.
JPRS 43725

The Economic Reform and Accounting in Business, by V. Verob'yev, 9 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 10, Oct 1967, pp 48-54.
JPRS 43725

USSR
Economic (Contd)

Urgent Problems of Supplying Ukrainian Enterprises, by V. Tyshinin, 7 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 77-81.
JPRS 43771

Supply Organs try out new Economic System, by M. Timoshpol'skiy, M. Bogdanov, 7 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 82-86.
JPRS 43771

Textile and Light Industries Celebrate Fifty Years of Soviet Rule, by V. A. Shalashov, 13 pp.
RUSSIAN, per, Mekhanizatsiya i avtomatizatsiya proizvodstva, Vol 21, No 10, Oct 1967, pp 1-6.
JPRS 43540

Cooperation Created by the October Revolution, by G. Emmerich, 14 pp.
RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No 5, 1967, pp 9-16.
JPRS 43623

Agriculture of the CEMA Countries in 1966, by A. Kalashnikov, 14 pp.
RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No 5, 1967, pp 38-44.
JPRS 43623

Foreign Trade of the CEMA Countries in Food Products by E. Harsim, 11 pp.
RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No 5, 1967, pp 63-67.
JPRS 43623

International System of Machinery for Agriculture and Forestry, by E. Noy and V. Mordasov, 8 pp.
RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No 5, 1967, pp 83-86.
JPRS 43623

A Study of the Experience with Industrial Hog Production, by I. Kruglyak, 7 pp.
RUSSIAN, per, Mezhdunarodnyy sel'skokhozyaystvennyy zhurnal, No 5, 1967, pp 107-108.
JPRS 43623

Transportation in Countries - Members of CEMA, by B. Gorizontov, 11 pp.
RUSSIAN, per, Moscow, Mirovaya Ekonomika i Mezhdunarodnyye Otnosheniya, No. 9, Moscow, 1967, pp. 103-110.
JPRS 43,851

USSR
Economic (Contd)

A Program of Great Transformation, 8 pp.
RUSSIAN, per, Molochnaya Promyshlennost', No 9, 1967, pp 1-4.
JPRS 43554

Consultations on Financial Problems in Construction, 5 pp.
RUSSIAN, per, Montashnyye i Spetsial'nyye Raboty v Stroitel'stve, No 10, Oct 1967, pp 30-31.
JPRS 43971

Fleet And Ports Of Poland.
RUSSIAN, per, Morskoy Flot, No 8, Aug 1967, pp 11-12.
DTA LN 282-68

Experience In The Efficient Utilization Of Port Wharves.
RUSSIAN, per, Morskoy Flot, No 8, Aug 1967, p 38.
DTA LN 282-68

Chartering Index of the Council on Economic Mutual Assistance, 5 pp.
RUSSIAN, per, Morskoy Flot, No 9, Sept 1967, pp 40-41.
JPRS 43329

Measures for Increasing Production of Poultry Products, by N. Abashin, 6 pp.
RUSSIAN, journal, Myasnaya Industriya SSR, Moscow, No. 12, Dec 67, pp. 1-3
JPRS 44,155

Coordinating Food Output and Consumption in Kazakhstan, by P. Yatsenko, 14 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 9, Sept 1967, pp 28-32.
JPRS 43605

Raise the Level of Territorial and Branch Planning, by S. Daulev, 6 pp.
RUSSIAN, journal, Narodnoye Khozyaystvo Kazakhstana, No. 9, Alma-Ata, Sept. 67, pp. 35-36.
JPRS 43,838

Cumbersome Planning Retards Direct Contact between Trade and Industry, by L. Bugaytsov, 6 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 9, Sept 1967, pp 67-69.
JPRS 43540

Benefits to Rural Lithuania Since Soviet Rule and Need for More Progress, by Cheslovas Ladukas, 7 pp.
RUSSIAN, per, Kommunist, No 10, Oct 1957, pp 52-56.
JPRS 43883

Improvement in Latvian Residential Construction Needed, by Sh. Lyubetskis, 5 pp.
RUSSIAN, per, Kommunist, Vil'nyus, No. 10, Oct 67, pp. 66-70.
JPRS 44,017

Moldavia Develops Integrated Planning for Industrial Centers, by A. Belyakov, 7 pp.
RUSSIAN, per, Kommunist Moldavii, No 8, 1967, pp 75-78.
JPRS 43431

Improved Teaching of Economics Urged, by M. Podugol'nikov, 6 pp.
RUSSIAN, per, Komsomol'skaya Pravda, Moscow, 18 Nov 67, p. 2.
JPRS 44,024

Production of Forging Equipment and Presses, by Ya. K. Uspenskiy, 14 pp.
RUSSIAN, per, Kuznechno-Shtampovoye Proizvodstvo, No 11, Nov 1967, pp 17-22.
JPRS 43931

Problems in Developing the North, by P. Shvetsov, 5 pp.
RUSSIAN, np, Literaturnaya Gazeta, 13 Sept 1967, p 2.
JPRS 43325

Apartment Purchasing through Long-Term Savings Plan, by Ya. Zhukovskiy, 5 pp.
RUSSIAN, np, Literaturnaya gazeta, No 46, 15 Nov 1967, p 12.
JPRS 43716

Readers' Responses to Article on Export of Antiques and Art, by B. Borisov, 7 pp.
RUSSIAN, newspaper, Literaturnaya Gazeta, No. 52, Moscow, 27 Dec 67, pp. 1 and 12.
JPRS 44,024

Development of Machine Building Outlined, by K. K. Vinogradov, 11 pp.
RUSSIAN, per, Mashinostroitel', No 10, 1967, pp 5-7.
JPRS 43773

Development of Machine Tool Production Cited, by A. A. Padugin, 11 pp.
RUSSIAN, per, Mashinostroitel', No 10, 1967, pp 23-25.
JPRS 43773

Improving Organization of Machine Building Production, by B. V. Vlasov and D. A. Tobias, 10 pp.
RUSSIAN, per, Mashinostroitel', No 10, 1967, pp 26-28.
JPRS 43773

Industrial Use of Diamonds Increasing, by V. N. Bakul', 8 pp.
RUSSIAN, per, Mashinostroitel', No 10, 1967, pp 29-31.
JPRS 43773

Exhibition Displays Machine Building Achievements, by M. Z. Zelikson, 7 pp.
RUSSIAN, per, Mashinostroitel' No 10, 1967, pp 37-40.
JPRS 43773

Supply Problems in the Northeastern Economic Region, by A. Zuyev, 7 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 9, 1967, pp 45-49.
JPRS 43325

Proposals for Improving Supply System Discussed, by V. Dynabits, 11 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 9-18.
JPRS 43771

Further Increases in Steel Production Planned, by V. Laptev, 8 pp.
RUSSIAN, per, Material'no-tekhnicheskoye Snabzheniye, No. 10, Moscow, 1967, pp. 33-40.
JPRS 43,797

Computers and Office Equipment Needed in Supply Work, by V. Lagutkin, 14 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 41-51.
JPRS 43771

Soviet Standard of Living Compared Internationally, by P. Tarent'yev, 15 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 52-65.
JPRS 43771

Development of Supply System in Postwar Period Discussed, by N. Fasulyak, 14 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, No 10, 1967, pp 66-76.
JPRS 43771

Finance and Credit at the Service of Socialism, by V. D'yachenko, 8 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 21-35.
JPRS 43751

The Economic Reform -- A new Level in Planned Utilization of Money-Exchange Relationships, by G. Kosyachenko, 20 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 36-50.
JPRS 43751

The Economic Reform in Action, by V. Firsov, 14 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 51-60.
JPRS 43751

Finance and a Rise in the Prosperity of the Workers, by V. Kulikov, 16 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 71-82.
JPRS 43751

Fifty Years of Soviet Power in the Uzbek SSR, by V. Muratkhodzhayev, 6 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 83-86.
JPRS 43751

The True Flowering of Soviet Georgia, by A. Chirakadze, 8 pp.
RUSSIAN, per, 50 Let Velikoy Oktvabr'skoy Sotsiyalisticheskoy Revolyutsii, pp 87-91.
JPRS 43751

Methods of Raising the Effectiveness of Capital Construction, by A. Vozyakov, 10 pp.
RUSSIAN, per, Finansy SSSR, No 8, 1967, pp 3-8.
JPRS 43361

Kazakh Minister of Nonferrous Metallurgy Reports on Industry Progress during Soviet Rule, by V. G. Bereza, 14 pp.
RUSSIAN, per, Gornyy zhurnal, No 10, 1967, pp 3-7.
JPRS 43519

Enterprise Location Determines Effectiveness, by L. Shinkarev, 8 pp.
RUSSIAN, per, Izvestiya, 15 Nov 1967, p 3.
JPRS 43776

Soviet Gold Mining in Kolyma, by Ye. Mamocharova, 7 pp.
RUSSIAN, per, Izvestiya, 7 Dec 1967, p. 2.
JPRS 43980

Territorial Displacements in the Utilization of USSR Natural Resources in the Soviet Period, by I. V. Komar, 22 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 5, Sep-Oct 1967, pp 38-53.
JPRS 43769

Locating Soviet Industry in 1966-1970, by N. T. Agafanov, 16 pp.
RUSSIAN, per, Izvestiya Vsesoyuznogo Geograficheskogo Obshchestva, Vol. 99, No. 5, Leningrad, Sept-Oct 67, pp. 410-419.
JPRS 43,843

Achievements of Light Industry under Soviet Power, by V. D. Mikhaylov, 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy: Tekhnologiya Legkoy Promyshlennosti, No 5, 1967, pp 5-18.
JPRS 43540

Contribution of Nitrogen Industry to National Economy, by K.K.Kil'shtedt and M.I. Ryabov, 12 pp.
RUSSIAN, per, Khimicheskaya Promyshlennost, No. 11, Moscow 67, pp. 23-28.
JPRS 44,110

Development of Chemical Fiber Industry in USSR, by Ye. P. Ivanova, 11 pp.
RUSSIAN, per, Khimicheskiye Volokna, No 5, 1967, pp 4-9.
JPRS 43663

Concerning the Construction of Chemical Fiber Plants, by L. K. Shifrin, 10 pp.
RUSSIAN, per, Khimicheskiye Volokna, No 5, 1967, pp 37-42.
JPRS 43663

Chemical and Petroleum Machinery Manufacture on the 50th Anniversary of the Great October Revolution, by K. I. Brekhov, 8 pp.
RUSSIAN, per, Khimicheskoye i neftyanoye mashinostroyeniye, No 10, Oct 1967, pp 1-4.
JPRS 43540

Statements on Research Plans of Economics Institutes, 11 pp.
RUSSIAN, per, Ekonomicheskiye nauki, No 11, Nov 1967, pp 109-125.
JPRS 43770

Summary of CEMA Progress, 1949-1967, 6 pp.
RUSSIAN, per, Ekonomicheskoye stroitel'stvo, No 11, Nov 1967, pp 44-47.
JPRS 43935

Reform Aims at Optimization of Economic Elements, by V. V. Novozhilov, 17 pp.
RUSSIAN, per, Ekonomika i matematicheskiye metody, No 5, Sept/Oct 1967, pp 660-671.
JPRS 43385

Interbranch Production Relationships Studied, by E. F. Baranov, et al, 22 pp.
RUSSIAN, per, Ekonomika i matematicheskiye metody, No 5, Sept/Oct 1967, pp 683-696.
JPRS 43385

Methods of Reevaluation of Fixed Productive Capital in Industries, by K. Said-Galiyev, 12 pp.
RUSSIAN, per, Ekonomika i Matematicheskiye Metody, No 6, Nov-Dec 1967, pp 872-880.
JPRS 43914

International Conference Held on the Problems of an Interbranch Balance, by E. F. Baranov, V. V. Kossov, 9 pp.
RUSSIAN, per, Ekonomika i Matematicheskiye Metody, No 6, Nov-Dec 1967, pp 938-941.
JPRS 43997

General Plans for Development of Construction Industry, by A. Etemekdzhiyan, 16 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, No. 11, Moscow, Nov 67, pp. 5-15.
JPRS 44,017

The Growth of the Electrical Engineering Industry in Uzbekistan, by Sh. Khodzhayev, 6 pp.
RUSSIAN, per, Ekonomika i Zhizn, No 8, Aug 1967, pp 8-11.
JPRS 43657

Profit and Its Utilization under the New System, by V. M. Muratkhodzhayev, 9 pp.
RUSSIAN, per, Ekonomika i Zhizn, No 8, Aug 1967, pp 62-66.
JPRS 43325

Uzbekistan Industry's Problems in Producing Reliable, Durable, Quality Goods, 7 pp.
RUSSIAN, per, Ekonomika i Zhizn, No. 9, Tashkent, 1967, pp. 4-7.
JPRS 43,852

The Electric Power of Uzbekistan, by V. Doroshenko, 8 pp.
RUSSIAN, per, Ekonomika i Zhizn, No 9, Sep 1967, pp 37-42.
JPRS 43946

Increases Sought in Production of Agricultural Machinery, by B. Zolotilov, 6 pp.
RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, No 9, Sept 1967, pp 52-55.
JPRS 43606

For Better Use of Fixed Assets in Ukrainian Light Industry, by I. Ryzhkov, 6 pp.
RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, No 9, Sept 1967, pp 56-58.
JPRS 43540

Repayment of Production Investments in the Electric Power Engineering Industry, by A. Ya. Avrukh, 11 pp.
RUSSIAN, per, Elektricheskiye Stantsii, No 10, Oct 1967, pp 2-6.
JPRS 43657

Pressing Problems of Rural Electrical Power Engineering, by A. P. Korshunov, 8 pp.
RUSSIAN, per, Elektricheskiye Stantsii, No 10, Oct 1967, pp 46-48.
JPRS 43657

New Methods of Calculating Effects of Capital Investments, by I. A. Morel', 11 pp.
RUSSIAN, per, Elektricheskiye Stantsii, No. 12, Moscow, Dec 67, pp. 7-10.
JPRS 44,013

The 50-Year History of Soviet Finances, by B. Garbusov, 23 pp.
RUSSIAN, per, 50 let Velikoy Okt'yabr'skoy Sotsialisticheskoy Revolyutsii, pp 3-19.
JPRS 43751

The World Historical Process and the Leninist Theory of Socialist Revolution, by Ye. Zhukov, 13 pp.
RUSSIAN, per, Kommunist, No 13, Sep 1967, pp 14-23.
JPRS 43684

Leninist Teachings on the Socialist State, by D. Chesnokov, 13 pp.
RUSSIAN, per, Kommunist, No 13, Sep 1967, pp 36-47.
JPRS 43684

The Soviet Man--Creator of the New World, by Sh. Rashidov, 18 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 54-68.
JPRS 43772

The October Revolution and Scientific Progress, by M. Keldysh, 14 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 69-80.
JPRS 43772

The Invincible Vital Force of the Great October, by Walter Ulbricht, 18 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 81-95.
JPRS 43772

What Does It Mean To Be a Revolutionary in Modern France? by Waldek Roche, 15 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 96-107.
JPRS 43772

October and the National-Liberation Movement, by Peter Keyneman, 11 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 108-116.
JPRS 43772

Czechoslovakia Is Following the Path of the October Revolution, by Jerzy Hendryk, 16 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 117-127.
JPRS 43772

The Great October Revolution Is the Source of Our Strength, by Eduard Ochab, 13 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 128-136.
JPRS 43772

The Beginning of a New Era in Universal History, by Paul Niculescu-Misil, 18 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 136-149.
JPRS 43772

Fifty Years of Soviet Regime and the Importance of Its Critics, by D. Shevlyagin, 15 pp.
RUSSIAN, per, Kommunist, No 16, Nov 1967, pp 150-160.
JPRS 43772

Participation of Workers of Foreign Countries in the October Revolution, by I. I. Mints, 11 pp.
RUSSIAN, bk, Uchastie trudyashchikhya zarubezhnykh stran v oktyabr'skoy revolyutsii, 1967, pp 4-12, 341-343.
JPRS 43880

Komsomol and Youth All-Union Tour Continues, by I. Konev, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No 10, Oct 1967, pp 12-13.
JPRS 43558

Brief History of the Mongolian People's Revolutionary Party (Part Nine), 34 pp.
MONGOLIAN, per, Naryn Am'dral, Ulan Bator, Nos. 10 and 11, Oct and Nov 67.
JPRS 43,790

Military

Atom and Weapon, by S. N. Krasil'nikov.
RUSSIAN, bk, Atom i Oruzhiye. Nauchno-Tekhnicheskiy Progress i Voennoye Delo. Sbornik Statey, 1964, pp 1-340.
P100018068-V
FTD-MT-67-50

Multiplying Guards Traditions, by Maj. V. Korol' and Lt. A. Kaptsevich, 5 pp.
RUSSIAN, per, Aviatsiya i kosmonavtika, No 7, July 1967, pp 17-21.
JPRS 43558

The United States Army's Armored Division, by V.S. Makarov, 9 pp.
RUSSIAN, bk, Bronetankovaya Diviziya Armii SSHA. Moscow, Military Publishing House, Ministry of Defense, 1967, pp. 2-7; 219-221.
JPRS 43,793

USSR
Military (Contd)

The Combat Examination Has Been Passed, 11 pp.
RUSSIAN, np, Izvestiya, No 232, 1 Oct 1967.
DIA LN 314-68

From Cavalry Armies to Tank Divisions, by V.
Anfilov, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 22 Aug 1967, p 2.
JPRS 43669

Maneuver in Combined-Arms Combat, by
Maj. Gen. Yu. Z. Novikov, 5 pp.
RUSSIAN, bk, Manevr v Obshchevoyskovom
Boyu, Moscow, Military Publishing House,
Ministry of Defense, 1967, pp. 2-5; 134-136.
JPRS 43,793

Bulgarian Loading Machines.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya
Proizvodstva, No 8, 1967, pp 46-50.
ACSI J-3882
ID 2204057767

Radio Warfare, by A. I. Paliy, 190 pp.
RUSSIAN, bk, Military Press Under The Ministry
of Defense Of The U.S.S.R., 1963.
DIA LN 424-67

Guarding the Achievements of the Great October,
by S. G. Gorshkov, 12 pp.
RUSSIAN, per, Morskoy Sbornik, No 10, Oct
1967, pp 3-15.
JPRS 43558

Soviet Rocket-Building, by B.V.Shipov, 5 pp.
RUSSIAN, bk, Otechestvennoye Raketostroyeniye.
Moscow, Military Publishing House, Ministry
of Defense, 1967, pp. 104-107, 108-110.
JPRS 43,793

Speech of the Minister of Defense on the Law
of Universal Military Duty, 18 pp.
RUSSIAN, np, Red Star, No 241, 13 Oct 1967,
pp 1-18.
DIA LN 304-68

Law of the Union of Soviet Socialist Republic
Concerning General Military Service, 30 pp.
RUSSIAN, np, Red Star, No 241, 13 Oct 1967,
pp 1-30.
DIA LN 303-68

USSR
Military (Contd)

The Trenching Machine D-524, by A. A. Kavalero, 5 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny,
No 6, 1967, pp 32-34.
ACSI J-3845
ID 2204056567

Soviet Rocket Troops, by P. T. Astashenkov.
RUSSIAN, bk, Sovetskiye Raketnyye Voyaka, 1967,
pp 1-344.
*FTD-MT-24-20-68

Fundamentals of Operational Research in Military
Engineering, by Yu. V. Chuyev.
RUSSIAN, bk, Sovetskoye Radio, 1965, 592 pp.
*FTD-HT-23-51-68C

A Short Outline of the Development of Rocket
Research in the USSR, by V. N. Sokolskiy, 35 pp.
RUSSIAN, per, Akad. Nauk SSSR. Trudy Inst. Istorii
Estestvovedeniya i Tekhniki, Vol 29, 1960.
CFSTI-TT-67-51340

50th Anniversary of the Soviet State, by A.
Yepishev, 21 pp.
RUSSIAN, per, Voyenno-istoricheskiy Zhurnal,
No 10, 1967, pp 3-18.
JPRS 43710

Guarding the Soviet Sky, by B. Zabelok, 7 pp.
RUSSIAN, per, Voyenno-istoricheskiy Zhurnal,
No 10, 1967, pp 65-68.
JPRS 43710

Storming the Winter Palace, by M. Zakharov, 11 pp.
RUSSIAN, per, Voyenno-istoricheskiy zhurnal, No
10, 1967, pp 69-76.
JPRS 43710

An Important Contribution in the History of
National Aviation, by N. Stytov, 8 pp.
RUSSIAN, per, Voyenno-istoricheskiy Zhurnal,
No 10, 1967, pp 102-106.
JPRS 43710

Civil Defense Work in Moscow, by V. Promyslov,
5 pp.
RUSSIAN, per, Voennoye Znaniya, No 10, Oct
1967, pp 16-17.
JPRS 43558

USSR
Military (Contd)

Urgent Emergency Repair Work, by Yu. Kammerer and A. Kharkevich, 6 pp.
RUSSIAN, per, Voyennyye Znaniya, No 10, Oct 1967, pp 32-33.
JPRS 43550

The Soviet Army--Army of the Revolution, by Lt. Gen A. I. Bednyagin, 5 pp.
BULGARIAN, per, Voenniy agitator, No 18, Sept 1967, pp 18-25.
JPRS 43553

Soviet Ground Training for Fliers, by Capt. V. Amelchenko, 6 pp.
FRENCH, per, El Djéich, Sept 1967, pp 24-27.
JPRS 43553

Geographic

Problems of Using Natural Resources for Rest and Tourism, by V. S. Preobrazhenskiy, N. P. Shelomov, 13 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSR, Seriya Geograficheskaya, No 5, Sep-Oct 1967, pp 54-62.
JPRS 43768

Opening Up and Development of Extreme Northeast USSR, by V. Tumanov, 5 pp.
RUSSIAN, newspaper, Stroitel'naya Gazeta, Moscow, 1 Nov 67, p. 4.
JPRS 43,838

Asbestos of the Urals, 6 pp.
RUSSIAN, per, Stroytel'nyye Materialy, 1967, pp 2-4.
DIA LN 237-68

Sociological

Kiev Order of Lenin Shevchenko State University.
RUSSIAN, bk, Kiev, University, 1967, 39 p.
ALL Ref: 37

Approval of New Unified Job Title Nomenclature, 19 pp.
RUSSIAN, per, Byulleten' Gosudarstvennogo Komiteta Soveta Ministrov SSSR po Voprosam Truda i Zarabotnoy Platy, No 11, 1967, pp 9-25.
JPRS 43915

USSR
Sociological (Contd)

Some Trends in the Development of Applied Linguistics, by Ye. P. Stenkovskaya, O. I. Strishhevskaya, 6 pp.
RUSSIAN, per, Filologicheskiye Nauki, No 5, 1967, pp 58-62.
JPRS 43994

Standardisation of Technical Terminology in the USSR, by P. V. Veselov, V. I. Sirota, 6 pp.
RUSSIAN, per, Filologicheskiye Nauki, No 5, 1967, pp 63-67.
JPRS 43994

Youth Journal Raps Modernism, by Vadim Nazarenko, 16 pp.
RUSSIAN, journal, Molodaya Gvardiya, No. 7, Moscow, July 1967, pp. 255-280 and No. 8, Aug 67, pp. 287-306.
JPRS 43,816

Youth Journal Discusses Patriotism of Soviet Literature, by V. Chalmayev, 9 pp.
RUSSIAN, journal, Molodaya Gvardiya, No. 10, Moscow, Oct 67, pp. 272-293.
JPRS 43,808

New Manual for Teachers of Eight-Year and Secondary Schools, by I. Solovkov and M.M. Gluz, 11 pp.
RUSSIAN, per, Nachal'naya Shkola, No. 11, Moscow, Nov 67, pp. 77-81.
JPRS 44,121

Social Planning and its Place in Running a Socialist Society, by Zh. T. Toshchenko, 31 pp.
RUSSIAN, bk, Nauchnoye Upravleniye Obshchestvom, 1967, pp 128-172.
JPRS 43708

Interests and Control of Societal Processes, by S. S. Vishnevskiy, 32 pp.
RUSSIAN, bk, Nauchnoye Upravleniye Obshchestvom, 1967, pp 173-217.
JPRS 43708

Social Experiment and Scientific Development Guidance of the Socialist Society, by N. V. Panitakov, 21 pp.
RUSSIAN, bk, Nauchnoye Upravleniye Obshchestvom, 1967, pp 244-272.
JPRS 43708

Museums of Odessa, by B. Yusem.
RUSSIAN, bk, Odessa, 1967, 102 p.
NLL Ref: 069

Improvements Sought in the Training of
Engineers, by Z. Mironshenkova, 4 pp.
RUSSIAN, newspaper, Pravda, Moscow, 18 Sept.
1967, p. 3
JPRS 43,718

Improving Education on All Levels, by M.
Prokof'yev, 8 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, 31 Aug
1967, pp 1-2.
JPRS 43693

Improvements and Changes in Ukrainian Primary
and Secondary Education, by P. Udovichenko,
5 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, Moscow,
16 Nov 67, p. 1.
JPRS 43,820

The All-Union Conference on Quantitative
Method in Social Research, by T. Ter-
Izrael'yan 12 pp.
RUSSIAN, per, Vestnik Statistiki, No 9,
Sept 1967, pp 80-85.
JPRS 43632

Important Stage in Preparing an All-Union
Population Census, by P. Pod'yachikh, 22 pp.
RUSSIAN, per, Vestnik Statistiki, No 10,
Oct 1967, pp 77-90.
JPRS 43767

Efforts to Use Islam As An Ideological
Weapon of Anti-Communism, by T. Izimbetov,
8 pp.
RUSSIAN, bk, Voprosy Istorii Religii i
Ateizma, 1964, pp 79-85.
JPRS 43650

Some Problems of Atheistic Propaganda, by S.
N. Khudyakov, 18 pp.
RUSSIAN, bk, Voprosy Istorii Religii i
Ateizma, 1964, pp 22-36.
JPRS 43650

Sergey Pavlovich Finikov, by A. M. Vasil'yev,
G. F. Laptev.
RUSSIAN, per, Vestnik Moscow Univ Seriya I,
Matematika, Mekhanika, No 3, 1964, pp 92-96.
PI00370667-V
FTD-MT-64-559

Ninetieth Birthday of Soviet Chemical Scientist
Aleksandr Yermingel'dovich Arbuzov, by F. G.
Valitova and V. M. Zoroastrova, 19 pp.
RUSSIAN, per, Zhurnal Obshchey Khimii, Vol 37,
No 9, Sept 1967, pp 1929-1939.
JPRS 43705

EASTERN EUROPE

Economic

Economists Should Receive Better Training,
by Pleurat Khunani, 12 pp.
ALBANIAN, per, Ekonomia Popullore, Jul-Aug
1967, pp 21-31.
JPRS 43571

Training of Workers for the Machine Industry
in Tirani City, by Vangjel I. Gjeci, 12 pp.
ALBANIAN, per, Ekonomia Popullore, Jul-Aug
1967, pp 32-43.
JPRS 43571

Progress of Scientific Research in Agriculture,
7 pp.
ALBANIAN, per, Ekonomia Popullore, Jul-Aug
1967, pp 44-49.
JPRS 43571

Shortcomings in Geological Research Analyzed,
by Veli Mullaraj, 11 pp.
ALBANIAN, per, Ekonomia Popullore, Jul-Aug
1967, pp 60-69.
JPRS 43571

The Law on Trademarks and Industrial Samples,
12 pp.
BULGARIAN, per, Durshaven Vestnik, Sofia,
No. 93, 5 Dec 67, pp. 1-3.
JPRS 44,125

The Law on the State Savings Bank, 9 pp.
BULGARIAN, per, Durshaven Vestnik, Sofia,
No. 93, 5 Dec 67, pp. 4-5.
JPRS 44,125

Decree on Interest Rates and Other Charges by Certain State Agencies, 18 pp.
BULGARIAN, official organ, Durzhaven Vestnik, No. 100, Sofia, 22 Dec 67, pp. 2-5.
JPRS 44,170

Coal Extraction and the New System of Economic Management, by Iliya Nikolov, 14 pp.
BULGARIAN, per, Finansi i Kredit, No. 8, Sofia, Oct 67, pp. 27-39.
JPRS 44,119

Improving the Use of Fixed and Working Assets With the Tax on Productive Assets, by Velichka G. Kuneva, 7 pp.
BULGARIAN, per, Finansi i Kredit, No. 8, Sofia, Oct 67, pp. 40-45.
JPRS 44,143

The Ten Years Since the Establishment of "Water Supply and Sewer" Okrug Economic Enterprises, by Georgi Lazarov, 7 pp.
BULGARIAN, per, Khidrotekhnika i melioratsii, No 6, Aug-Sept 1967, pp 161-163.
JPRS 43617

The New System of Management in Cooperative Labor Farms, by Vasil Monov, 7 pp.
BULGARIAN, per, Kooperativno zemedelie, No 11, Nov 1967, pp 13-17.
JPRS 43870

The New System of Management in State Farms, by Nikola Pustrakov, 6 pp.
BULGARIAN, per, Kooperativno zemedelie, No 11, Nov 1967, pp 17-20.
JPRS 43870

Administrative and Economic Management of the National Economy, by Dimitur Dimitrov, 18 pp.
BULGARIAN, per, Novo Vreme, No. 11, Sofia, Nov 67, pp. 33-45.
JPRS 43,786

Industrial Methods in Cattle Raising, by Khristo Krustanov, 7 pp.
BULGARIAN, per, Partien Zhivot, No 14, Oct 1967, pp 13-17.
JPRS 43494

The Main Trend in the Development of Animal Husbandry, by Krachun Kolev, 13 pp.
BULGARIAN, per, Partien Zhivot, No 14, Oct 1967, pp 6-13.
JPRS 43494

International Prices and Internal Price Formation, by Stoycho Vulchenov, 15 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 8, Nov 1967, pp 15-28.
JPRS 43644

An Analysis of Costs under the Conditions of the New System of Management of the National Economy, by Stefan Kalinov and Ivan Yordanov, 11 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 8, Nov 1967, pp 29-38.
JPRS 43644

Basic Production Funds and Labor Productivity in Agriculture, by Delcho Sapundzhiev, 13 pp.
BULGARIAN, per, Planovo Stopanstvo i Statistika, No. 9, Sofia, 1967, pp. 13-24.
JPRS 44,169

Profitability and Production Funds in Animal Husbandry, by Docent Evg. Grueva and Val. Smirnova-Goranova, 15 pp.
BULGARIAN, per, Planovo Stopanstvo i Statistika, No. 9, Sofia, 1967, pp. 25-36.
JPRS 44,169

The Forthcoming Reform of Factory and Plant Prices, by I.V. Videnov, 5 pp.
BULGARIAN, np, Rabotnichesko delo, Sofia, 15 Nov 67, p. 2.
JPRS 43,786

Reorganization and Reform of Work Among Youth, 6 pp.
BULGARIAN, np, Rabotnichesko delo, Sofia, 21 Nov 67, p. 1A.
JPRS 43,780

Intensification of Production on Cooperative Labor Farms, by Radko Gospodinov, et al., 11 pp.
BULGARIAN, per, Selskostopanska Nauka, Sofia, No. 3, July-Sept. 67, pp. 57-66.
JPRS 44,034

The Permanent Commission on Construction of CEMA, 8 pp.
BULGARIAN, per, Stroitelstvo, No 8-9, Sept 1967, pp 39-40.
JPRS 43625

Roads with a Low Net Cost, 13 pp.
BULGARIAN, per, Stroitelstvo, Vol 12, Feb 1967, pp 1-13.
DIA LN 82-68

The Successes of the Bulgarian Economy and Foreign Trade, by Ivan Golomeev, 6 pp.
BULGARIAN, per, Vunshna Turgoviya, No 9, Sept 1967, pp 2-3.
JPRS 43625

The "Tekhnoinpeks" State Trade Enterprise Engages in Extensive International Scientific-Technical Cooperation, by Georgi Kumbiliv, 6 pp.
BULGARIAN, per, Vunshna Turgoviya, No 9, Sept 1967, pp 8-10.
JPRS 43625

The Balkankar State Economic Association is Developing at a Rapid Rate, by Kr. Krustev, 5 pp.
BULGARIAN, per, Vunshna Turgoviya, No 9, Sept 1967, pp 11-13.
JPRS 43660

The "Bulgarplod" State Economic Association, by Dragan Draganov, 8 pp.
BULGARIAN, per, Vunshna Turgoviya, No 9, Sept 1967, pp 14-16.
JPRS 43616

The Development of the Refrigerator Car Inventory of Bulgarian State Railroads, by Toma Barbov, 8 pp.
BULGARIAN, per, Vunshna Turgoviya, No 9, Sept 1967, pp 18-20.
JPRS 43617

Models Proposed for Optimum Current Planning in Foreign Trade, by Dimitur Stoyanov, 10 pp.
BULGARIAN, per, Vunshna Turgoviya, No. 10, Sofia, Oct 67, pp. 11-13.
JPRS 44,129

Some Economic Problems in Livestock-Feed Production, by Dimitur Ivanov, 7 pp.
BULGARIAN, per, Zhivotnovodstvo, No 9-10, Sep-Oct 1967, pp 56-61.
JPRS 43676

Consumer Demand and Supplier Policy in the Area of Communications, by Eva Duscova, 10 pp.
CZECH, bi-monthly, Ceskoslovenske Spoje, No. 5, Oct 67, Prague, pp. 12-14.
JPRS 44,018

Czechoslovak Commentary on Moscow Conference on Present-Day Capitalism, by Ludek Urban, 5 pp.
CZECH, per, Ekonomicka Revue, No 9, Sep 1967, pp 393-394.
JPRS 43712

Economist Loebli's Recent Book Reviewed, by Stefan Zolnay, 7 pp.
CZECH, per, Ekonomicka Revue, No. 11, Prague, Nov 67, pp. 513-516.
JPRS 44,016

Socioeconomic Role of Wage Tax, by Bohumil Vobornik, 6 pp.
CZECH, np, Hospodarske Noviny, No 43, 27 Oct 1967, p 3.
JPRS 43678

Interview with Otakar Turek on His New Book, 12 pp.
CZECH, np, Hospodarske Noviny, No 43, 27 Oct 1967, pp 8-9.
JPRS 43678

Establishment of Joint-Stock Companies, Part I, by Vladimir Novak, 7 pp.
CZECH, np, Hospodarske Noviny, No 43, 27 Oct 1967, p 12.
JPRS 43678

Profitability of Railroad Passenger Transportation, by Frantisek Janos, 5 pp.
CZECH, np, Hospodarske Noviny, No 44, 3 Nov 1967, p 7.
JPRS 43712

The Soviet Economy and CEMA, by Frantisek Stran-sky, 20 pp.
CZECH, np, Hospodarske Noviny, No 44, Nov 1967, pp 8-9.
JPRS 43712

Establishment of Joint Stock Companies in Foreign Trade Sector, by Vladimir Novak, 7 pp.
CZECH, np, Hospodarske Noviny, No 44, 3 Nov 1967, p 11.
JPRS 43712

Concept, Role and Development of the Czechoslovak Bearing Industry, by Josef Vavrínek, 6 pp.
CZECH, np, Hospodarske Noviny, No 46, 17 Nov 1967, p 6.
JPRS 43744

Management Personnel and Activity, by Dr. Jiri Khol, 44 pp.
CZECH, weekly, Hospodarske Noviny, Prague, No. 46, 17 Nov 67, supplement pages 1-15.
JPRS 44,032

Eastern Europe
Economic (Contd)

Comment on Hungarian Economic Reform, 8 pp.
CZECH, np, Hospodarske Noviny, No. 47,
Prague, 24 Nov 67, p. 11.
JPRS 43,867

Adjustment of Wholesale Prices of Electricity,
by Erik Schmidt, 7 pp.
CZECH, np, Hospodarske Noviny, No. 48,
1 Dec 67, p. 4.
JPRS 43,867

Prices in Research and Development Work,
by Josef Vitek and Jiri Vonrak, 5 pp.
CZECH, np, Hospodarske Noviny, No. 48,
1 Dec 67, p. 5.
JPRS 43,867

Results of First Year of the New Management
System, by J. Kotrc, 7 pp.
CZECH, np, Hospodarske Noviny, No. 49,
Prague, 8 Dec 67, pp. 1, 4.
JPRS 43,867

Establishment of Foreign Trade Joint Stock
Companies, by Jaroslav Mazal, 3 pp.
CZECHOSLOVAKIAN, np, Hospodarske Noviny, No 49,
8 Dec 1967, pp 2.
JPRS 43871

Czechoslovak-French Trade Relations, by Josef
Mlcoch, 6 pp.
CZECHOSLOVAKIAN, np, Hospodarske Noviny, No 49,
8 Dec 1967, pp 11.
JPRS 43871

Scientific-Technical Development and Prin-
ciples of Long-Term Planning, by Ladislav Riha,
15 pp.
CZECH, per, Nova Mysl, No 3, 7 Feb 1967,
pp 3-7.
JPRS 43352

Survey on Expected Supply and Demand, by
Zdenek Vergner, 5 pp.
CZECH, newspaper, Rude Pravo, Prague, 26 Oct 67,
pp. 2-3.
JPRS 43,841

Economic Situation of Young Married People, by
Zdenek Urbanek, 6 pp.
CZECH, np, Rude Pravo, 14 Nov 1967, p 5.
JPRS 43675

Eastern Europe
Economic (Contd)

Changes in Economic Instruments in Regard to the
1968 Plan, 6 pp.
CZECH, np, Rude Pravo, 14 Dec 1967, p 3.
JPRS 44,028

Statute of the State Fund for Water Utiliza-
tion, 5 pp.
CZECH, per, Ustredni Vestnik, Part 13, 31
Oct 1967, pp 587-588.
JPRS 43494

Directives Concerning Management of Finances
of the State Fund for Water Utilization,
8 pp.
CZECH, per, Ustredni Vestnik, Part 13, 31 Oct
1967, pp 588-591.
JPRS 43494

Some Outstanding River Development Projects,
8 pp.
CZECH, per, Vodni Hospodarstvi, Apr 1965,
pp 185-186.
DIA LN 139-68

On Some Key Problems of Czechoslovak Foreign
Trade, by Miroslav Maruska & Vladimir Novacek,
12 pp.
CZECHOSLOVAKIAN, per, Zahranicni obchod, No 10,
Oct 1967, pp 1-3.
JPRS 43871

The Present And Future Of The Railroads.
CZECH, per, Zeleznicar, 1967, p 1.
DIA LN 273-68

The First In The Republic.
CZECH, per, Zeleznicar, 1967, pp 1-2.
DIA LN 273-68

Program of Olomouc Okres Agricultural
Association, 15 pp.
CZECH, np, Zemedelske, 19 Oct 1967, p 1.
JPRS 43572

Development Of Roads In Czechoslovakia, by
J. Spurek, 12 pp.
FRENCH, per, La Revue Generale des Routes et des
Aerodromes, Dec 1966, pp 197-202.
DIA LN 221-68

Results and Prospects of CEMA Labor Research,
by Arno Mannicke, 7 pp.
GERMAN, bi-monthly, Arbeitsökonomik, No. 5,
Berlin, Sept-Oct 67, pp. 470-475.
JPRS 43,823

Eastern Europe
Economic (Contd)

Main Development Trends of the Chemical Industry, by Gunther Wyshofsky, 16 pp.
GERMAN, per, Chemische Technik, No 9, Sept 1967, pp 513-520.
JPRS 43643

Problems of Economic Cooperation among Socialist Countries, by Vladimir Smolyanskiy, 13 pp.
GERMAN, per, Deutsche Aussenpolitik, No 10, Oct 1967, pp 1184-1190.
JPRS 43696

The Electrical Equipment for the New Railway Motor Trains of the Budapest Local Railway, by Y. Pitschel, J. Schlemmer, 34 pp.
GERMAN, per, Deutsche Eisenbahn Technik, No 8, Aug 1966, pp 348-353; 354-356; 385-386; 387-391.
DIA LN 320-67-G

Problems with the Refrigeration Chain; Railway Information, by W. Schechter, 24 pp.
GERMAN, per, Deutsche Eisenbahn Technik, No 10, Oct 1966, pp 444-446; 481-486.
DIA LN 320-67-E

Transferable Ruble and GDR Foreign Trade System, by Dr. Habil Harald-Dietrich Kuhne and Dr. Heinz Klos, 5 pp.
GERMAN, per, Deutsche Finanzwirtschaft, No 22, Nov 1967, pp 18-20.
JPRS 43696

GDR-USSR Scientific-Technical Cooperation, by Herbert Weis, 13 pp.
GERMAN, per, Einheit, Vol 22, No 10/11, Oct/Nov 1967, pp 1287-1295.
JPRS 43712

Long-Range Economic Forecasting and Structural Policy, by Gerhard Schurer, 12 pp.
GERMAN, per, Einheit, East Berlin, Vol 22, No. 12, Dec 67, pp. 1464-1473.
JPRS 44,028

The Soviet GEK-80 and GEPK-130 Wall Cranes in Bridge Construction in Czechoslovakia, by A. Sustacek
GERMAN, per, Eisenbahntechnik, Vol 14, No 5, May 1966, pp 215-220.
DIA LN 320-67-I

The Fair - A Pictorial Report on Trains, by H. Prussak, 18 pp.
GERMAN, per, Eisenbahntechnik, Vol 14, No 5, May 1966, pp 234-235.
DIA LN 320-67-I

Eastern Europe
Economic (Contd)

Industrial Organization and Management of Sugar Production, by H. Koenk, 6 pp.
GERMAN, per, Feldwirtschaft, Vol 8, No 9, Sept 1967, pp 437-439.
JPRS 43572

Changes In The Structure Of Shipping On The Rhine, by T. H. Hohfeld, 13 pp.
GERMAN, per, Geographische Rundschau, Sept 1967, pp 353-358.
DIA LN 360-68

Law on the 1968 State Budget, 13 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part I, No. 18, 18 Dec 67, pp. 153-160.
JPRS 44,028

Principles for Preparation and Implementation of Investments, 16 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part II, No. 116, pp. 813-820.
JPRS 44,036

Yugoslavia's River Navigation and Its Position Within The Danube Traffic, 6 pp.
GERMAN, per, Internationale Transport Zeitschrift, No 3, Jan 1966, pp 215; 217.
DIA LN 134-68

Information on the Chemical Fiber Industry, 6 pp.
GERMAN, per, IWE Wirtschaftsdienst, Bonn, 18 Oct 67, pp. 6-9, and 25 Oct 67, pp. 6-9.
JPRS 43,800

Shipping and Ship Production on the Danube River in the Peoples Republic of Hungary, 11 pp.
GERMAN, rpt, Jahrbuch der Schifffahrt, 1962, pp 45-52.
DIA LN 120-68

Problems and Successes of Socialist Rationalization in the Nonferrous Metals Industry, by Kurt Singhuber, 11 pp.
GERMAN, per, Neue Huette, No 9, Sept 1967, pp 516-521.
JPRS 43568

Development of the GDR Shipbuilding Industry, by A. Dudssus, 7 pp.
GERMAN, per, Schiffbautechnik, No 10, Oct 1967, pp 535-538.
JPRS 43660

Eastern Europe
Economic (Contd)

Current Status and Development of Plastics Production in the GDR, by Dr. C. Bishchoff, 10 pp.
GERMAN, per, Plaste und Kautschuk, Vol 14, No 9, Sept 1967, pp 649-652.
JPRS 43568

Actual Problems in the Construction of Rail Tracks.
GERMAN, per, Signal und Schiene, Feb 1967, pp 81-83.
DIA LN 115-68

Progress On The Assembly Line.
GERMAN, per, Der Spiegel-Serie, No 44, 1967, pp 172; 174; 175; 177; 178.
DIA LN 336-68

A Concept For Planning The Development Of The Drenthe, by H. Boeck, 21 pp.
GERMAN, per, Springer-Verlag, Oct 1967, pp 363-374.
DIA LN 361-68

To Higher Efficiency through Standardization,
GERMAN, per, Standardisierung, No 4, 1967, pp 136-137.
ACSI J-3557
ID 2204050067

Network Planning in Standardization, by H. Fischer.
GERMAN, per, Standardisierung, No 4, 1967, pp 156-158.
ACSI J-3557
ID 2204050067

Standards, Quality and Cooperative Relationships.
GERMAN, per, Standardisierung, No 4, 1967, p 163.
ACSI J-3557
ID 2204050067

New Standardization Decree in the GDR, 19 pp.
GERMAN, reprint, Gesetzblatt, No. 2, 1967, pp. 663-674, in Standardisierung, No. 11, Part I, East Berlin, Nov 67, pp. 408-417
JPRS 43,841

Development of Production Organization in the Metal-Working Industry, 1962-1966., by Diether Rohde, 17 pp.
GERMAN, per, Statistische Praxis, East Berlin, No. 11, Nov 67, pp. 639-643, and No. 12, Dec 67, pp. 718-719.
JPRS 44,143

Eastern Europe
Economic (Contd)

The Development of the Packaging Industry in Hungary, by Tibor Deri, 6 pp.
GERMAN, per, Die Verpackung, Vol 2, Mar/Apr 1967, pp 52, 57 & 58.
ACSI J-2648
ID 2204024367

Guidelines in the Area of Rationalized Management of Packaging Equipment in Poland, 4 pp.
GERMAN, per, Die Verpackung, Vol 2, Mar/Apr 1967, pp 69-70.
ACSI J-2647
ID 2204024167

CEMA Cooperation in Electronics, by Dr. Rolf Jahn, 7 pp.
GERMAN, np, Die Wirtschaft, East Berlin, No. 13, 25 Oct 67, p. 10.
JPRS 43,801

Success of the Five-Day Workweek, by Rolf Berger, 6 pp.
GERMAN, np, Die Wirtschaft, East Berlin, 29 Nov 67, pp. 3-4.
JPRS 44,164

Uniform System of Accounting, Statistics Assessed, by Prof. Dr. Habil Arno Donda, 19 pp.
GERMAN, np, Die Wirtschaft, East Berlin, No. 49, 6 Dec 67, Supplement, pp. 3-9.
JPRS 44,125

Cooperative Associations in Agriculture and the Food Industry, by Herman Wirsig, 16 pp.
GERMAN, monthly, Wirtschaftswissenschaft, Vol 15, No. 11, Berlin, Nov 67, pp. 1761-1744.
JPRS 44,169

Initial Successes of new Economic System, by Hans Apel, 6 pp.
GERMAN, newspaper, Die Zeit, No. 49, Hamburg, 8 Dec 67, p. 37.
JPRS 44,016

Questions Concerning the Councils and Economic Reform, by Ferenc Dallos, 12 pp.
HUNGARIAN, per, Almanach, No. 10, Oct 67, pp. 870-879.
JPRS 43,786

Production and Consumption Analysis by use of 1965 Input-Output Tables, by Albert Racs, 7 pp.
HUNGARIAN, per, Figyelő, No 47, 22 Nov 1967, p 3.
JPRS 43757

Eastern Europe
Economic (Contd)

Hungary's Consumer Price Reform Discussed, 5 pp.
HUNGARIAN, weekly, "Figyelő", Vol. 11, No. 52, Budapest, 28 Dec 67, pp. 1-2.
JPRS 44,143

Economic Geography of Petroleum and Coal Processing in Hungary, by Zoltan Antal, 24 pp.
HUNGARIAN, per, Földrajzi Ertesito, Vol 16, No 2, 1967, pp 219-237.
JPRS 43892

The Czechoslovak Machine Industry Through Hungarian Eyes, by Erno Fusi, 15 pp.
HUNGARIAN, per, Gepvaras Technologia, Vol 7, No 10, Oct 1967, pp 469-478.
JPRS 43744

Diesel Locomotives And Motorized Trains Manufactured by the Ganz-MAVAG Factory During the Last Twenty Years, by Laslo Kmorovics, 12 pp.
HUNGARIAN, per, Jarmuvek - Gazdasagi Gepok, Vol 12, No 5, May 1965, pp 184-189.
DIA IN 290-60

Procedure for Concluding Contracts for the Specialization of Production in Hungary within CEMA Framework, by Irtayas Tamas, 7 pp.
HUNGARIAN, per, Koho- es gepipari Kozlony, Vol 17, No 42, 21 Oct 1967, pp 309-311.
JPRS 43689

Relations between the Joint Farming and Household Plots of TSZ's, by Jozsef Takacs, 15 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 10, Oct 1967, pp 1179-1192.
JPRS 43616

On the Threshold of the New Economic Guidance System, by Bela Csikos-Nagy, 12 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No. 12, Budapest, Dec 67, pp. 1397-1405.
JPRS 44,054

The Recently Acquired Freight Car Of MAV, by A. Birossary, 5 pp.
HUNGARIAN, per, Kozlekedesi Kozlony, 25 June 1967, pp 452-454.
DIA IN 291-60

Eastern Europe
Economic (Contd)

The 15-Year Highway Development Program, by Ferenc Paczelt, 14 pp.
HUNGARIAN, per, Kozlekedes Tudomanyi Szemle, Vol. 17, No. 10, Budapest, Oct. 67, pp. 466-471.
JPRS 43,785

The Drafting Of Optimal Schedules for Trains. HUNGARIAN, per, Kozlekedes Tudomanyi Szemle, Vol XVII, No 71, July 1967, pp 313-320.
DIA IN 290-60

The New Organization and Tasks of Hungarian Foreign Trade, by Lajos Kovacs, 5 pp.
HUNGARIAN, per, Kulkereskedelem, No 11, Nov 1967, pp 331-332.
JPRS 43871

Regulations Pertaining to the Income Tax of the Agricultural Population, 20 pp.
HUNGARIAN, per, Magyar Kozlony, Budapest, No. 87 and 88, 24-25 Nov 67, pp. 885-886.
JPRS 43,846.

Development Guides for the Legal Protection of Agricultural Producer Cooperatives, 6 pp.
HUNGARIAN, per, Mezogazdasagi es Elemezisugyi Ertesito, No. 46, 24 Nov 67, pp. 1006-1008.
JPRS 43,846

New System of Material Incentives and Salary Classification for Research Institutes, by Sandor Horvath, 6 pp.
HUNGARIAN, per, Muszaki Elet, Budapest, No. 24, 30 Nov 67, p. 3.
JPRS 43,861

Effects of the Banking System on the Economic Decisions of Enterprises, by Dr. Lajos Acs, 9 pp.
HUNGARIAN, per, Penzugyi Szemle, No 7-8, Jul-Aug 1967, pp 529-536.
JPRS 43618

The Enterprise Production Tax, by Dr. Jolan Papp-Ritter, 15 pp.
HUNGARIAN, per, Penzugyi Szemle, No 7-8, Jul-Aug 1967, pp 608-619.
JPRS 43618

The Economic Policy of Councils in the New Economic System, by Dr. Zoltan, 11 pp.
HUNGARIAN, per, Penzugyi Szemle, No 7-8, Jul-Aug 1967, pp 625-634.
JPRS 43618

Some Aspects of Financing Agricultural Investments Under the New Economic Mechanism, by Sandor Kovacs, 10 pp.
HUNGARIAN, per, Penzugyi Szemle, No 9, Sep 1967, pp 705-713.
JPRS 43870

Hungary's Investment Policy During the Transitional Period of the Economic Reform, by Dr. Istvan Nemenyi, 15 pp.
HUNGARIAN, per, Penzugyi Szemle, No. 10, Budapest, Oct 67, pp. 807-818.
JPRS 44016

Comments on Forthcoming Economic Reform, by Karoly Nemeth, 11 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 10, Oct 1967, pp 3-12.
JPRS 43407

Hungarian-Soviet Economic Cooperation, by Antal Apro, 10 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 11, Nov 1967, pp 17-25.
JPRS 43625

Along the Road of Economic Reform, by Jenő Fock, 17 pp.
HUNGARIAN, per, Tarsadalmi Szemle, No 11, Nov 1967, pp 62-79.
JPRS 43618

The South Baranya Building Material, by Oszkó Egon, 5 pp.
HUNGARIAN, per, Vasut, No 5, 1965, pp 18-19.
DIA LN 296-68

Role of Ganz-Mavag in the Implementation of the FAV, by C. Janos, 23 pp.
HUNGARIAN, per, Vasut, No 2, Feb 1967, pp 1-3; 4; 23-25; 26-29.
DIA LN 71-68

Operations With Large Chain Equipment Are Foremost, HUNGARIAN, per, Vasut, No 3, 1967, pp 24; 29-30.
DIA LN 72-68

Italian CP Journal Discusses Czechoslovak Economic Reform, by Luciano Barca, 8 pp.
ITALIAN, weekly, Rinascita, No. 47, Rome, 1 Dec 67, pp. 29-30.
JPRS 43,841

Project of the Transportation Development in the Bay of the River Volta in Ghana, by Czeslaw Frankler & Jerzy Jaroszka, 18 pp.
POLISH, per, Biuletyn Techniczny, 1966, pp 79-84.
DIA LN 334-68

The Main Goal-Increased Agricultural Production, by József Tejchma, 10 pp.
POLISH, per, Nowe Drogi, No. 12, Warsaw, Dec 67, pp. 35-44.
JPRS 43,783

Forms of Contact Between the State and Peasant Farms, by Juliusz Zarzycki, 10 pp.
POLISH, per, Nowe Drogi, No. 12, Warsaw, Dec 67, pp. 45-53.
JPRS 43,783

Soviet Role in Metrology Conducted by CEMA, by Antoni Komar, 10 pp.
POLISH, per, Pomiary, Automatyka, Kontrola, No. 11, Warsaw, Nov 67, pp. 496-498
JPRS 44,120

Amortization Systems of Communist Bloc Nations Outlined, by Zofia Zawistowska, 5 pp.
POLISH, per, Problemy Inwestowania i Rozwoju, No 3-4, 1967, pp 35-36.
JPRS 43407

The Development of Metal Forging At the ZMTK, 11 pp.
POLISH, per, Przegląd Kolejowy Mechaniczny, Mar 1967, pp 77-79.
DIA LN 169-68

Chemical Industry Development and USSR Cooperation, by E. Zawada, 7 pp.
POLISH, per, Przemysł Chemiczny, Warsaw, No. 10, Oct 67, pp. 565-567.
JPRS 44,119

Containers Are In Vogue.
POLISH, np, Tygodnik Morski, 22 Oct 1967.
DIA LN 441-68

Motor Ship "Tonto" Comes Every Week To Gdynia.
POLISH, np, Tygodnik Morski, 22 Oct 1967.
DIA LN 441-68

Eastern Europe
Economic (Contd)

The Ship Of The Week, by Tadeusz Lodykowski & Josef Palkiewicz, 6 pp.
POLISH, np, Tygodnik Morski, 22 Oct 1967.
DIA LN 441-68

Gdansk - As A Port For Sea Giants, by Witold Poinc, 4 pp.
POLISH, np, Tygodnik Morski, No 33 (481),
13 Aug 1967, pp 1-2.
DIA LN 354-68

Light Industry's Investment Problems in 1966-1970, by Artur Borowicz.
POLISH, per, Wiadomosci Narodowego Banku Polskiego, No. 10, Oct 67, pp. 405-409.
JPRS 44,035

Agricultural Development Trends in Socialist Countries, by Franciszek Kolbusz, 18 pp.
POLISH, per, Wies Wspolczesna, No 11, Nov 1967, pp 41-53.
JPRS 43688

Farm Policy Problems and Tasks, by Zdzislaw Tomal, 11 pp.
POLISH, per, Wies Wspolczesna, No. 12, Dec 67, pp. 3-12.
JPRS 44,034

Construction Materials on the Rural Market, by Felicja Kedziorkowa, 11 pp.
POLISH, per, Wies Wspolczesna, No. 12, Dec 67, pp. 53-61.
JPRS 44,034

Investment Outlays for Farm-Food Industry, by Tadeusz Zalski, 8 pp.
POLISH, per, Zycie Gospodarcze, No 44, Oct 1967, pp 1, 4.
JPRS 43494

New Method for Synthetic Coordination of Plan, by Jeremi Wiersbicki, 11 pp.
POLISH, per, Zycie Gospodarcze, No. 46, Warsaw, 12 Nov 67, p. 4.
JPRS 43,786

Financing of Scientific and Technical Progress, by Mieczyslaw Marlewicz, 9 pp.
POLISH, per, Zycie Gospodarcze, No. 48, Warsaw, 26 Nov 67, p. 2.
JPRS 43,786

Eastern Europe
Economic (Contd)

Import and Export of Farm Machinery, by Janusz Wasylkowski, 7 pp.
POLISH, per, Zycie Gospodarcze, No 48, 26 Nov 1967, p 8.
JPRS 43784

Handicraft Industry's Development Problems, by Jozef Gabjan, 6 pp.
POLISH, per, Zycie Gospodarcze, No 49, 3 Dec 1967, p 9.
JPRS 43896

Greater Responsibility for Public Property, by Radu Ciurileanu, 10 pp.
RUMANIAN, per, Finante si Credit, No 11, Nov 1967, pp 9-18.
JPRS 44007

Increased Discipline as a Task for Transport and Telecommunication Unions, by A. Grecu, 5 pp.
RUMANIAN, newspaper, Munca, No. 6251, Bucharest, 17 Dec 67, pp. 1,5.
JPRS 44,035

Development of Towns and Growth of Urban Population in the Socialist Republic of Rumania, by V. Cucu.
RUMANIAN, per, Natura, Seria Geografie-Geologie, Vol 19, No 1, Jan-Feb 1967, pp 3-18.
ACIC TC-1312

Scientific Organization of Production and Work in the Construction Industry, by M. Veintraub and A. Verniceanu, 20 pp.
RUMANIAN, per, Probleme Economice, No 9, Sept 1967, pp 31-44.
JPRS 43406

Improved Planning Methodology for Domestic Trade, by Mihail Levante, 20 pp.
RUMANIAN, per, Probleme Economice, Vol. 20, No. 10, Bucharest, Oct 67, pp. 55-67.
JPRS 44,018

New Indicators of Economic Effectiveness Discussed, 15 pp., by C. Danciu.
RUMANIAN, per, Probleme Economice, Vol 20, No. 10, Bucharest, Oct 67, pp. 77-86.
JPRS 43,867

Eastern Europe
Economic (Contd)

Efficient Transport Contributes to Earnings from Foreign Trade, by Dumitru Usturoi, 17 pp. RUMANIAN, per, Probleme Economice, Vol 20, No 10, Oct 1967, pp 87-98. JPRS 43784

Factors in Choice of Carrier Outlined, by D. Rebusapca, 17 pp. RUMANIAN, per, Probleme Economice, Vol. 20, No. 10, Bucharest, Oct 67, pp. 99-110. JPRS 44,018

Increasing Capacity of Transportation Sector, by I. Strimbeanu, S. Davidescu, 25 pp. RUMANIAN, per, Revista Cailor Ferate, No 1, pp 1-12. DIA LN 314-67

Factors in Making Irrigation Pay Off Outlined, by Emilia Joita, 19 pp. RUMANIAN, per, Revista de Statistica, No 8, Aug 1967, pp 32-45. JPRS 43494

Cost Price and Reduction of Expenditures of Materials, by I. Ravar and J. Niculescu, 10 pp. RUMANIAN, per, Revista de Statistica, No 9, Sept 1967, pp 3-10. JPRS 43644

Traffic in the Port of Constanta, by Benone Zota, 10 pp. RUMANIAN, per, Revista de Statistica, No 9, Sept 1967, pp 86-91. JPRS 43617

The Tasks of Statistics in Perfecting National Economic Management and Planning, by Dr. Ionescu Constantin, 5 pp. RUMANIAN, per, Revista de Statistica, No. 10, Bucharest, Oct 67, pp. 3-6. JPRS 44,054

The Agricultural Council and the Solution of General Production Problems, by Nicolae Giesan, 5 pp. RUMANIAN, per, Romania libera, No 7166, 3 Nov 1967, pp 1,2. JPRS 43676

Eastern Europe
Economic (Contd)

The Mechanism of Responsibilities in Realizing Investment Efficiency, by Tiberiu Horvath, 6 pp. RUMANIAN, np, Scinteia, No 7510, 1 Nov 1967, pp 1, 3. JPRS 43712

The Tasks of Financial Controls over the Economy, by Emil Hatos, 5 pp. RUMANIAN, np, Scinteia, No 7512, 3 Nov 1967, pp 1 and 3. JPRS 43712

State of Investment Projects on Cooperative Farms, by Radu Atanasescu, 5 pp. RUMANIAN, np, Scinteia, No 7513, 4 Nov 1967, pp 1,3. JPRS 43676

Improving Agricultural Management, by Angelo Miculescu, 5 pp. RUMANIAN, np, Scinteia, 14 Nov 1967, pp 1 & 3. JPRS 43572

Measures to Assure Adequate Harvests, by Radu Atanasescu, et al., 6 pp. RUMANIAN, np, Scinteia, Bucharest, No. 7527, 18 Nov 67, p. 3. JPRS 43,783

Promotion of Economic Criteria in Agriculture, by Mircea Bulgaru, 6 pp. RUMANIAN, np, Scinteia, No 7531, 22 Nov 1967, pp 1,3. JPRS 43753

The Role of the Economic Ministries in the Draft Directives, by Bujor Almasan, 6 pp. RUMANIAN, np, Scinteia, No 7533, 24 Nov 1967, pp 1,3. JPRS 43757

The Center for Advanced Training of Enterprise Management, by Petre Lupu, 6 pp. RUMANIAN, per, Viata economica, No 40, 6 Oct 1967, pp 5, 7. JPRS 43407

Uniform Legislation on Inventions, Innovations and Rationalization, 7 pp. RUMANIAN, per, Viata economica, No 40, 6 Oct 1967, pp 6, 10. JPRS 43407

Summary of Rumanian Machine Building Industry Achievements and Tasks, by Mihai Marinescu, 5 pp.
RUMANIAN, newspaper, Viata Economica, Vol 5, No. 49, Bucharest, 8 Dec 67, pp. 8-9.
JPRS 44,055

Business Conditions in 1968, 6 pp.
SERBIAN, weekly, Ekonomika Politika, Belgrade, 23 Dec 67, pp. 1582, 1587.
JPRS 44,170

Development of Tourism, by Alois OprchalSKI & Miroslav Sebesta, 31 pp.
SERBO-CROATIAN, per, Doprava, 1967, pp 115-119; 150-156.
DIA LN 135-68

European Economic Commission (EEC).
SERBO-CROATIAN, per, Doprava, 1967, pp 115-119; 150-156.
DIA LN 135-68

International Relations in Transportation.
SERBO-CROATIAN, per, Doprava, 1967, pp 115-119; 150-156.
DIA LN 135-68

Experience & Future Prospects In Using New Transportation Methods.
SERBO-CROATIAN, per, Doprava, 1967, pp 115-119; 150-156.
DIA LN 135-68

Movement of the Yugoslav Economy in the First Two Years of the Reform, 90 pp.
SERBO-CROATIAN, monograph, No. 34 of the Studies, Analyses and Surveys Series, Union Statistics Institute, Belgrade, 1967, pp. 2-65.
JPRS 44,015

The Volume and Structure of Private Investments in Agriculture, by Doctor Obren Blagojevic, 10 pp.
SERBO-CROATIAN, per, Ekonomika Poljoprivrede, No 10, Oct 1967, pp 817-825
JPRS 43405

Housing Construction in Yugoslavia, by Milos Jaric, 6 pp.
SERBO-CROATIAN, per, Izgradnja, 1967, pp 3-7.
JPRS 43617

The System for Insurance of Property and Persons, by Milan Bajic, 13 pp.
SERBO-CROATIAN, per, Jugoslovenski Pregled, Belgrade, No. 7-8, July-August, 1967, pp. 333-336.
JPRS 43,867

The System of Price Formation and Social Price Control, by Dusan Vukovic, 10 pp.
SERBO-CROATIAN, journal, Jugoslovenski Pregled, No. 9, Belgrade, Sept. 67, pp. 359-362.
JPRS 43,867

The Production Program of the Pancevo Petroleum Refinery, by Cvetko Markovic, 8 pp.
SERBO-CROATIAN, per, Kemija u Industriji, Vol 16, No 10, Oct 1967, pp 539-541.
JPRS 43643

Housing Construction and Economic Trends in 1967, by Stojka Milojevic, 7 pp.
SERBO-CROATIAN, per, Komuna, No 10, 1967, pp 12-15.
JPRS 43896

Tendency of Decrease in Coal Production and Consumption, by Radmilo Protic, 23 pp.
SERBO-CROATIAN, per, Nafta, Vol 18, No 8, Aug 1967, pp 352-359.
JPRS 43895

The Sisak Petroleum Refinery, 1957-1967, by Tomislav Herceg & Petar Pajagic, 14 pp.
SERBO-CROATIAN, per, Nafta, No 9, Sept 1967, pp 381-388.
JPRS 43920

The 1968 Budget for Yugoslav National Defense, by Col.-General Nikola Ljubicic, 11 pp.
SERBO-CROATIAN, newspaper, Narodna Armija, Belgrade, 8 Dec 67, p. 3.
JPRS 44,058

The Present System of Foreign-Trade Regulation in Yugoslavia, by Dr. Mladen Sretenovic, 7 pp.
SERBO-CROATIAN, per, Nova Izgovina, No 9, Sept 1967, pp 418-421.
JPRS 43784

Prerequisites Created for Realising Economic Reform in Montenegro, 10 pp.
SERBO-CROATIAN, per, Privredni Pregled, 6 Dec 1967, p 9; 7 Dec 1967, p 11.
JPRS 44007

Chambers -- A Form and Expression of the Self-Organisation of the Economy, 15 pp.
SERBO-CROATIAN, per, Privredni Pregled, 9 Dec 1967, p 9; 12 Dec 1967, p 11.
JPRS 44007

The Taxation of Independent Innkeepers and Households which offer Housing and Food Services to Citizens, by M. Djurbabic, 13 pp.
SERBO-CROATIAN, per, Radna i drustvena zajednica, No 9, 1967, pp 451-462.
JPRS 43757

Yugoslav Production of Pesticides, 1964-1966, by Petar Mikic, 7 pp.
SERBO-CROATIAN, per, Tehnika, No 11, Nov 1967, pp 1978-1980.
JPRS 43644

Transportation Measures Recommended for 1968, by Ljubomir Jankovic, 8 pp.
SERBO-CROATIAN, per, Transport, Belgrade, No. 11, Nov 67, pp. 5-8.
JPRS 44,140

Measures to Intensify Operating Conditions in Railroad Transportation, by Dr. Djordje Jovanovic, 7 pp.
SERBO-CROATIAN, per, Transport, Belgrade, No. 11, Sept 67, pp. 20-23.
JPRS 44,140

Economic Results Achieved in 1966 by the Cellulose and Paper Industry, by Aleksandar Zdravkovic, 13 pp.
SERBO-CROATIAN, per, Vesnik Jugoslovenske investicione banke, Sept 1967, pp 10-15.
JPRS 43643

The Policy on Interest Rates in Commercial Banks, by I. Apostolovic, 9 pp.
SERBO-CROATIAN, per, Vesnik Jugoslovenske investicione banke, Sept 1967, pp 15-18.
JPRS 43644

The Capital Investment Project Department for the Construction and Modernisation of Lines of the Yugoslav Railroads, by Branko Baric, 21 pp.
SERBO-CROATIAN, per, Iskustva, No 10, Oct 1967, pp 34-41.
JPRS 43728

Unity Based on the Principle of Marxism-Leninism Ten Years Since the 1957 Moscow Conference, 9 pp.
BULGARIAN, per, Novo Vreme, No. 11, Nov 67, pp. 12-19, Sofia.
JPRS 43,780

The Plenums of the City Party Committees, by Vasil Dimitrov and Gulub Vladov, 7 pp.
BULGARIAN, per, Partien zhivot, No 14, Oct 1967, pp 47-51.
JPRS 43520

The Varna Okrug Party University, by Angel Zotev, 7 pp.
BULGARIAN, per, Partien zhivot, No 14, Oct 1967, pp 74-78.
JPRS 43520

Administrative Law and Guaranteeing the Rights and Interests of Citizens and Organizations, by Docent Ivan Bermendzhiev, 8 pp.
BULGARIAN, per, Pravna Misul, Sofia, No. 4 (July-August) 1967, pp. 70-74.
JPRS 43,832

Czech Discusses Role of Yugoslav Communist Union, by Jan Lipavsky, 8 pp.
CZECH, per, Literarni Noviny, No 45, 11 Nov 1967, pp 8-9.
JPRS 43687

The Anticomunist Apparatus of the United States, by Otomar Cervenska, 10 pp.
CZECH, per, Nova Myal, No 24, 28 Nov 1967, pp 21-24.
JPRS 44005

The Path Toward Limiting the Nuclear Threat, by Thomas Lahoda, 15 pp.
CZECH, per, Nova Myal, No 25, 12 Dec 1967, pp 18-23.
JPRS 43991

Problems of the Newsworthiness of the Press, by Adolf Hradecky, 6 pp.
CZECH, per, Reporter, No 19, 22 Sept-6 Oct 1967, pp 4-5.
JPRS 43570

Development of World View Through Family Training, by Zdenek Raiman, 7 pp.
CZECH, no, Rude Pravo, Prague, 26 Oct and 9 Nov 67, p. 5.
JPRS 43,780

Eastern Europe
Political (Contd)

Marxist Philosophy at the Crossroads, by
Miroslav Rydl, 8 pp.
CZECH, np, Rude Pravo, Prague, 16 Nov 67,
p. 3.
JPRS 43,780

Czech View of Peaceful Coexistence Policy,
by Vladimir Janku, 13 pp.
CZECH, per, Zivot strany, No 20, 20 Sept
1967, pp 50-55.
JPRS 43687

Bulgarian Communist Party Leader Stanko Todorov
Interviewed in Denmark, 6 pp.
DANISH, per, Land og Folk, 7 Dec 1967, p 6-7.
JPRS 43991

Contradictions in Development and the Problem
of Unity of the Socialist Countries, by
Anatoli P. Butenko, 21 pp.
GERMAN, per, Forum, No 19, 1967, pp 6-9 & 11.
JPRS 43570

East German View of Communism in Scandinavia,
by Wolfgang Hopker, 8 pp.
GERMAN, review, Osteuropa, Stuttgart,
No. 12, Dec 67, pp. 900-905.
JPRS 44,178

Expansion of Political Criminal Code, by
Walther Rosenthal, 6 pp.
GERMAN, per, SEZ Archiv, No 20, Oct 1967,
pp 309-310.
JPRS 43695

Gyorgy Lukacs Speaks about the Renaissance of
Marxism, by Jense Kostmann, 6 pp.
GERMAN, per, Die Volksstimme, 26 Nov 1967, p 3.
JPRS 43991

In Search of East-West Dialogue: Addressed
to Our Friends in the West, by Jiri Hajek,
8 pp.
GERMAN, per, Die Zeit, Hamburg, 1 Dec 67, pp.
25 and 26.
JPRS 43,780

The Rationalization Of the German Democratic,
by F. Geringer & K. Durr, 33 pp.
HUNGARIAN, per, Kozlekedes Tudomanyi Szemle,
Vol XVII, No 71, July 1967, pp 332-336.
DIA LN 290-68

Eastern Europe
Political (Contd)

Rumanian Review of Czech Publication Devoted
to Rumanian-Czech Relations, 1846-1948, by
M. Moldoveanu and A. Ghita, 8 pp.
RUMANIAN, per, Analele Institutului de
Studii Istorice si Social-Politice de pe
Linga CC al PCR, Vol. 13, No. 5, Bucharest,
Sept.-Oct. 67, pp. 153-258.
JPRS 43,780

Attributes of the Nation Under Socialism,
by Tudor Bugnariu, 7 pp.
RUMANIAN, np, Contemporanul, Bucharest, No. 46,
17 Nov 67, pp. 1 and 8-9.
JPRS 43,827

National Minorities in the Socialist System,
by Constantin Popovici, 7 pp.
RUMANIAN, np, Contemporanul, No. 50,
Bucharest, 15 Dec 67, p. 8.
JPRS 44,118

The Nation Today, 16 pp.
RUMANIAN, monthly, Lupta de Clasa, Vol. 47,
No. 10, Bucharest, Oct 67, pp. 99-108.
JPRS 44,118

The Nation in the Modern World, 16 pp.
RUMANIAN, per, Lupta de Clasa, No. 11,
Bucharest, Nov 67, pp. 51-62.
JPRS 43,827

Creative Spirit in Teaching Marxism-Leninism, by
Vasile Nichita, 12 pp.
RUMANIAN, per, Lupta de clasa, No 11, Nov 1967,
pp 75-82.
JPRS 43873

Suggested Guidelines for Rumanian Labor Union
Elections, by Ion Vilsan, 6 pp.
RUMANIAN, np, Munca, 8 Nov 1967, pp 1-2.
JPRS 43675

The Regulation on Identity Cards for Official
Personnel in Internal Affairs Organs, by
Radovan Stijacic, 8 pp.
SERBO-CROATIAN, per, Sluzbeni List SFRJ, Vol 23,
No. 46, Belgrade, 15 Nov 67, pp. 1069-1071.
JPRS 43,869

Equality is Missing Even Under Socialism,
by Andrej Siracky, 5 pp.
SLOVAK, newspaper, Pravda, Bratislava, 22 Nov
67, p. 4.
JPRS 43,780

Eastern Europe
Military

Organization of the Operation and Use of the
PMR-3, by I. Donchev.
BULGARIAN, per, Armeyski Pregled, Vol 14, No 4,
Apr 1967.
ACSI J-2881
ID 2204030167

Laying an Anti-Tank Mine Field, by K. Alanasov,
BULGARIAN, per, Armeyski Pregled, Vol 14, No 4,
Apr 1967.
ACSI J-2881
ID 2204030167

Legal Problems of the Neutralization and Demili-
tarization of Space, by Sava Penkov, 16 pp.
BULGARIAN, per, Pravna misul, No 4, Jul-Aug 1967,
pp 23-35.
JPRS 43873

Tatra-Truck Model 813, by V. Holup, 6 pp.
CZECH, per, Automobil, Vol 11, 1967, pp 7-9.
ACSI J-3940
ID 2204059667

Tanks of the Future-Part II, 2 pp.
CZECH, np, Obrana Lidu, No 13, 1 Apr 1967,
p 8, Col 1-3.
ACSI J-4043
ID 2204062667

Sperrgast - Volume I, by Rolf Muller, Manfred
Adam.
GERMAN, bk.
Dept of Navy/NIC 2486 (A)

Hollow Charges; How They Work.
GERMAN, per, Allgemeine Schweizerische
Militaerzeitschrift, No 11, Nov 1967, pp 685-687.
*ACSI J-4104
ID 2204000368

Steady Hand and Hawk Eyes, by L. Kitzing,
10 pp.
GERMAN, per, Armee Rundschau, No 2, Feb 1967,
pp 59-63.
DIA LN 343-67-B

Military Policy Aspects of European Security,
by Heinz Kessler, 13 pp.
GERMAN, per, Einheit, East Berlin, No. 12,
Dec 67, pp. 1510-1520.
JPRS 44,058

Eastern Europe
Military (Contd)

South Vietnam Problem and Task,
by Friedrich Bechtle, 52 pp.
GERMAN, Reprints of a Series from
Esslinger Zeitung, 25 Jul-4 Aug 1967.
ACSI J-3223
ID 2204038367

Artillery Fire, by Martin Kallauke and
Martin Auge, 827 pp.
GERMAN, bk, Kas Schiessen der Artillerie,
Vol 1 & 2, 1964, 404 pp (Vol 1); 423 pp (Vol 2)
ACSI J-3342
ID 2204041767

Civil Defense, Part III, 29 pp.
GERMAN, per, Die Landesverteidigung der Schweiz,
1966, pp 465-491.
ACSI J-3693
ID Incl to 2893003967

Pneumatic Shelters for Military Purposes,
5 pp.
GERMAN, per, Militartechnik, No 4, 1967,
pp 169-170.
ACSI J-3563
ID 2204050267

Devices for the Firing of Rifle Grenades, by
G. Marten, 7 pp.
GERMAN, per, Militartechnik, Vol 7, No 9,
1967, pp 393-395.
ACSI J-3799
ID 2204055867

Some Aspects of the Qualitative Changes in Modern
Naval Forces, by E. Helmholtz, 9 pp.
GERMAN, per, Militartechnik, No 10, 1967, pp 442-
446.
JPRS 43669

The Armament Industries of the Neutral States
of Europe (111), 18 pp.
GERMAN, per, Osterreichische Militarische
Zeitschrift, No 5, Sept-Oct 1966, pp 370-376.
DIA LN 407-67

Snipers (2nd Installment) by H. Widhofner.
GERMAN, per, Truppendienst, No 3, 1967,
pp 224-229.
ACSI J-3798
ID 2204054367

Snipers (3rd Installment), by H. Widhofner.
GERMAN, per, Truppendienst, No 4, 1967, pp 297-299.
ACSI J-3798
ID 2204054367

Opinions of Our Readers - Snipers, by
H. Widhofner.
GERMAN, per, Truppendienst, No 4, Published
in Nos. 2 & 3, 1967, p 363.
ACSI J-3798
ID 2204054367

The Submarine Training Group in Neustadt, by
W. Jablonsky, 12 pp.
GERMAN, per, Truppenpraxis, Vol 11, Nov 1966,
pp 851-855.
DIA LN 436-67

Development Tendencies of the Conventional
Artillery (Problems of Interpretation in View
of the Possibilities of a Small Country), by
K. Schaffer, 11 pp.
GERMAN, per, Truppendienst, No 3, 1967,
pp 199-203.
ACSI J-3711
ID 2204052567

Speech by Defense Minister Hoffmann at Scientific
Conference of Military Academy, by
Heinz Hoffmann, 30 pp.
GERMAN, per, Volksarmee, Oct 1967, No 16,
pp 3-12.
JPRS 43591

Rheinmetall's Self Propelled 90-mm Antitank
Gun, 5 pp.
GERMAN, per, Wehr und Wirtschaft 8/9, 1967,
pp 471-472.
ACSI J-3731
ID 2204053567

Power Sources for Electric Fuses, by
Ulrich Theile, 14 pp.
GERMAN, per, Wehrtechnische Monatshefte,
Vol 64, No 9, 1967, pp 346-357.
ACSI J-3769
ID 2204055367

Considerations for Reducing the Destruction
Probability of a Target When an Atomic
Explosion Occurs, by H. Eisenlohr, O. Bubke,
5 pp.
GERMAN, per, Zivilschutz, No 9, 1966, pp 296-297.
ACSI J-3046
ID 2204034067

Informazioni from Rivista Militare.
ITALIAN, per, Informazioni from Rivista Militare,
9 Sept 1967.
*ACSI J-4120
ID 2204000968

The Flame of Tradition, by A. Merlusca,
7 pp.
RUMANIAN, per, Viata Militara, No 4, 1967,
pp 3-5.
ACSI J-3843
ID Incl. to 2883004467

The Medical Service under the Conditions of
Guerrilla Warfare, by Dr. Dorde Gragic,
229 pp.
CROATIAN, bk, Sanitetska Sluzba u Partizan-
skim Uslovima Ratovanja, 1965, 336 pp.
ACSI J-3397
ID 2204043867

Aviation of Support - Its Role and Perspective,
by V. Bujanj, 20 pp.
SERBIAN, per, Vojno Delo, No 3, May-June 1966,
pp 3-19.
DIA LN 461-67

Laying Anti-Tank Mines, by Major Stevan
Salinger, 6 pp.
SERBO-CROATIAN, per, Vojni Glasnik, No 10,
Oct 1967, pp 36-40.
JPRS 43659

Past and Future Development of the Yugoslav
Quartermaster Military Academy, by Dragoljub
Moravcic, 11 pp.
SERBO-CROATIAN, per, Vojnoekonomski Pregled,
No 9, Nov 1967, pp 820-829.
JPRS 43899

National Atlas of Hungary, by Jozsef Sziladi, 7 pp.
HUNGARIAN, per, Geodesia es Kartografia, No 5, 1967, pp 364-367.
JPRS 43685

Sociological

The Academic, Cultural, and Aesthetic Training of the Youth, by Ismail Hoxha, 11 pp.
ALBANIAN, per, Nendori, No 9, Sept 1967, pp 3-15.
JPRS 43672

Responsibility of All the People in Assuring Proper Hygienic Conditions, by Vera Ngjela, 12 pp.
ALBANIAN, per, Shendetesija Popullore, Tirana, No. 3, July-Aug.-Sept. 67, pp.6-17.
JPRS 43,781

Results of Sociological Survey of Reading Habits, by Nedyalka Blagoeva, 8 pp.
BULGARIAN, np, Narodna kultura, No 41, 14 Oct 1967, pp 4-5.
JPRS 43615

Bulgarian Demographic Trends and Public Health, by Evgeni Apostolov, Ivan Sachanov, 16 pp.
BULGARIAN, per, Novo vreme, No 11, Nov 1967, pp 46-57.
JPRS 43763

Bulgarian Turkish Population Undergoes Social and Cultural Changes, by Syuleyman Gavasov, 18 pp.
BULGARIAN, per, Novo vreme, No 11, Nov 1967, pp 66-78.
JPRS 43763

Basic Principles and Trends of Aesthetic Education, by Vasil Koev, 10 pp.
BULGARIAN, per, Partien zhivot, No 14, Oct 1967, pp 63-69.
JPRS 43520

Recidivist Criminality Among Minors in Bulgaria, by Khristo Lalov, et al. 19 pp.
BULGARIAN, per, Pravna Misl, No. 4, (July-August) 1967, pp. 68-84.
JPRS 43,832

Some Basic Problems in the Development of Rural Public Health, by M. Popov, 9 pp.
BULGARIAN, per, Sreden Meditsinski Rabotnik, Vol 16, No 5, Jul 1967, pp 3-8.
JPRS 43763

Tasks, Possibilities, and Problems in the Training of Bulgarian Medical Assistants, by G. Georgiev, 5 pp.
BULGARIAN, per, Sreden Meditsinski Rabotnik, Vol 16, No 5, Jul 1967, pp 41-43.
JPRS 43763

The Role of the USSR in the Development of Higher Technical Education in Bulgaria, by Vasil Stoilov, 11 pp.
BULGARIAN, per, Stroitelstvo, No 8-9, Sept 1967, pp 25-28.
JPRS 43675

Personality of the Leading Worker, by Engn. Spirit, 11 pp.
CZECH, per, Moderni Rizeni, Vol. II, No. 10, Prague, Oct 67, pp. 5-13.
JPRS 43,841

Social Behavior of Management Personnel, by Premysl Cervenka, 5 pp.
CZECH, per, Moderni Rizeni, Vol. II, No. 10, Prague, Oct 67, pp. 34-38.
JPRS 43,841

Czechoslovak-Polish Agreement on Exchange of Students, 11 pp.
CZECH, per, Stirka Zakonu CSSR, No 38, 7 Nov 1967, pp 377-382.

General School Decree Issued, 30 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part II, No. 11, East Berlin, 27 Nov 67, pp. 769-780.
JPRS 43,823

Revision of General Education Plans, 5 pp.
GERMAN, per, SEZ Archiv, No 20, Oct 1967, pp 307-309.
JPRS 43695

Systematic Fight Against Alcoholic Criminality and Abuse of Alcohol, by Erich Schuler, 26 pp.
GERMAN, per, Staat und Recht, Vol. IV, No. 11, Potsdam, Nov 67, pp. 1788-1806.
JPRS 43,782

Eastern Europe
Sociological (Contd)

Timely Problems of Public Education Policy, by Jeno Lugossy, 12 pp.
HUNGARIAN, per, Kozneveles, No 17, 8 Sept 1967, pp 641-645.
JPRS 43615

Social Conflicts in Industrial Plants, by Andras Hegedus and Tamas Rozgonyi, 12 pp.
HUNGARIAN, per, Valosag, No. 12, 1967, Budapest, pp. 32-41
JPRS 44,170

New National Statistics on Alcoholism, by Krystyna Drowd, Andrzej Mroczek, 8 pp.
POLISH, per, Kierunki, No 46, 12 Nov 1967, pp 1 and 7.
JPRS 43961

Common Tasks of Rural Housewives' Circles and Agricultural Circles, by Waldemar Michna, 11 pp.
POLISH, per, Wies Wspolczesna, No 11, Nov 1967, pp 65-72.
JPRS 43688

Scientific Management and Management Science, by Dr. Valter Roman, 8 pp.
RUMANIAN, per, Contemporanul, No. 50, Bucharest, 15 Dec 67, pp. 1,9.
JPRS 44,125

The Social Influence of Television, By O. Berlogea, et al., 15 pp.
RUMANIAN, per, Lupta de Clasa, Vol 47, No. 10, Bucharest, Oct 67, pp. 75-83.
JPRS 44,123

Reactions to Television Programs, by Alina Popovici, 7 pp.
RUMANIAN, per, Munca, No 6203, 22 Oct 1967, p 3.
JPRS 43615

Effects of Territorial Administrative Organization on Health Care, by M. Aldea, 6 pp.
RUMANIAN, per, Muncitorul Sanitar, No 46, 15 Nov 1967, pp 1,2.
JPRS 43763

Organization and Functions of State Health Inspectorates, 6 pp.
RUMANIAN, per, Muncitorul Sanitar, No. 49, Bucharest, 6 Dec 67, p. 3.
JPRS 44,164

Eastern Europe
Sociological (Contd)

Aspects of the Evolution of the Rumanian Population, by M. Bulgaru, 8 pp.
RUMANIAN, per, Natura (Geografie-Geologie), No 5, Sep-Oct 1967, pp 10-16.
JPRS 43961

Some Considerations of Urbanization in Rumania, by V. Cucu, 9 pp.
RUMANIAN, per, Natura--Seria Geografie-Geologie, No. 6, Bucharest, June 67, pp. 14-21.
JPRS 44,164

More Advanced Economics Curriculum in Higher Education, by M.A. Lupu, 12 pp.
RUMANIAN, per, Probleme Economice, Vol. 20, No. 10, Bucharest, Oct 67, pp. 68-76.
JPRS 43,823

Hypotheses on the Evolution of the Birth Rate in Rumania Up to 1980, by V. Ghetau, 10 pp.
RUMANIAN, per, Revista de Statistica, No 9, Sept 1967, pp 69-71.
JPRS 43615

Review of a Book Entitled "The Work Force in the Rumanian Socialist Republic. A Collection of Statistical Data", by D. Hasigan, 9 pp.
RUMANIAN, per, Revista de Statistica, No 9, Sept 1967, pp 92-96.
JPRS 43615

Some Problems Relating to the Perfecting of the Educational System, by Mirjana Krstinic, 10 pp.
SERBO-CROATIAN, per, Radna i Društvena Zajednica, No 9, Sep 1967, pp 417-424.
JPRS 43763

The Ratio Between Medical and Nonmedical Personnel in Health Establishments in Yugoslavia, by Sava Milosevic, Predrag Dovijanic, 14 pp.
SERBO-CROATIAN, per, Radna i Društvena Zajednica, No 9, Sep 1967, pp 431-442.
JPRS 43763

The New Code on Criminal Proceedings, by Bosidar Krens, 11 pp.
SERBO-CROATIAN, per, Radna i Društvena Zajednica, No 9, Sep 1967, pp 443-451.
JPRS 43763

The Code on Criminal Proceedings, 169 pp.
SERBO-CROATIAN, per, Slusbeni List SFRJ, No. 50, Belgrade, 13 Dec 67, pp. 1117-1171.
JPRS 44,164

WESTERN EUROPE

Economic

The New Material of the Swedish State Railways, by C. E. Andersen, 11 pp.
DANISH, per, Dansk Lokomotiv Tidende, 10 Apr 1967, pp 12-15.
DIA LN 444-67

The Swedish National Railways New Stock, by C. E. Anderson, 9 pp.
DANISH, per, Dansk Lokomotive Tidende, No 5, 10 May 1967, pp 9-12.
DIA LN 43-68

The Increased Value Sales Tax Will Make Radio and TV Sets More Expensive, 2 pp.
DANISH, rpt, Dansk Radio Industrie, Apr 1967, pp 51.
DIA LN 471-67

Results of Operations for the Period, 9 pp.
DANISH, per, Elektroteknikeren, No 14, 22 July 1967, pp 1-9.
DIA LN 305-68

New Harbor at Paramaribo, 6 pp.
DUTCH, per, Bulletin Van Het Ministerie Van Economische Zaken, No 7, July 1967, pp 1-3.
DIA LN 395-68

Survey Of the Possibilities for a Future In The Seagoing Profession, 13 pp.
DUTCH, per, Oms Zeewezen, Apr 1967.
DIA LN 322-68

Technical Specialists Receive A Professional Training.
DUTCH, per, Parade, No 5, May 1967, pp 6-9; 12-15; 54-55.
DIA LN 158-68

12.5 Million Marks Profit, by Liikennetarkastaja Roijo Nikula, 11 pp.
FINNISH, per, Lennettaja, No 2, 1967, pp 22-26.
DIA LN 310-68

Post & Telegraph Agency's Balance For Last Year (1966).
FINNISH, per, Lennettaja, No 2, 1967, pp 22-26.
DIA LN 310-68

Western Europe Economic (Contd)

Basic Improvement of Railroads Continues Electric Engines and Electric Trains.
FINNISH, per, Rautatie Liikenne, No 12, 1966, pp 553-555.
DIA LN 441-67

The Newest General Vans, 19 pp.
FINNISH, per, Rautatie Liikenne, No 12, 1966, pp 573-578.
DIA LN 441-67

New Styles In Merchandise Wagons From State Railways (VR) Pasila Motoryard, 9 pp.
FINNISH, per, Rautatie Liikenne, No 3, 1967, pp 113-115; 123.
DIA LN 166-68

The VR Started Their Swedish Line To Begin With Three Weekly Runs.
FINNISH, per, Rautatie Liikenne, No 3, 1967, pp 113-115; 123.
DIA LN 166-68

French Fishing Production in 1966.
FRENCH, per, La Pêche Maritime, Vol 46, No 1073, 20 Aug 1967, pp 555-555.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Consequences of the Kennedy Round in the Fishing Sector, by R. Simonnet.
FRENCH, per, La Pêche Maritime, No 1074, 20 Sep 1967, pp 605-607.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Roads of Europe, by P. Le Vert, 5 pp.
FRENCH, rpt, Le Réseau de Routes Européennes et L'action de l'O.N.U. en Matière de Circulation en Europe, pp. 68-70.
DIA LN 464-67

The New Mountain Rail Road Line From Sarajevo To Ploce, 8 pp.
FRENCH, per, La Vie Rail, 11 June 1967, pp 21-25.
DIA LN 272-68

Latina Nuclear Plant Annual Report for 1966.
ITALIAN, rpt, Ente Nazionale per l'Energia Elettrica, Latina(Italy), 79 pp.
ABC-tr-6898

The "NSB" (Norwegian State Railways).
NORWEGIAN, per, Vart Yrke, 1967, pp 26-29.
DIA LN 97-68

Western Europe
Economic (Contd)

New Form of Organization for the Norwegian State
RR.
NORWEGIAN, per, Vart Yrke, 1967, pp 30-33.
DIA LN 97-68

One Thousand Tons of Raw Materials a Day, 22 pp.
NORWEGIAN, per, Vart Yrke, 1967, p 40.
DIA LN 97-68

Electric Power In Expansion, 60 pp.
PORTUGUESE, per, Banas - Electrica e Electronica,
1966, pp 11-60.
DIA LN 331-68

Political

Danish Communist Upholds Soviet International
Line, by Jorgen Nyeng, 6 pp.
DANISH, per, Tiden, No 6, 1967, pp 132-136.
JPRS 43687

Revisionist Policy of Netherlands CP, 5 pp.
DUTCH, per, De Kommunist, No 2, Sept 1967,
pp 2 & 3.
JPRS 43687

A Dutch View of the Middle East Problem,
by J. deBoo, 11 pp.
DUTCH, per, Politiek en Cultuur, No 8-9,
Aug-Sept 1967, pp 407-417.
JPRS 43361

Henk Hoekstra Speech on October Revolution,
5 pp.
DUTCH, np, De Waarheid, 8 Nov 1967, pp 1-2.
JPRS 43687

Development of Finnish Workers' Movement
Traced, 8 pp.
FINNISH, np, Kansan Uutiset, 15 Nov 1967
JPRS 43687

Problems of FCP's New Program Examined,
by Ville Pessi, 9 pp.
FINNISH, daily newspaper, Kansan Uutiset,
Helsinki, 21 Nov 67, pp. 4 and 5.
JPRS 43,940

Finnish View on Attainment of Socialist
Aims, by Kalle Kivisto, 7 pp.
FINNISH, daily, Kansan Uutiset, Helsinki,
23 Nov 67, pp. 7-8.
JPRS 43,847

Western Europe
Political (Contd)

Ville Pessi Discusses Differences Within FCP,
11 pp.
FINNISH, daily newspaper, Kansan Uutiset,
Helsinki, 10 Dec 67, pp. 4 and 5.
JPRS 43,940

SKDL Adopts New Program During Eighth Congress,
by Aimo Haapanen, 5 pp.
FINNISH, monthly, Kommunisti, Helsinki,
No. 6-7, 1967, pp. 218-220.
JPRS 43,847

Structural Reforms in Finnish CP Proposed,
by Mikael Romberg, 9 pp.
FINNISH, monthly, Kommunisti, No. 6-7, 1967,
Helsinki, pp. 235-241.
JPRS 43,940

Belgian CP Congress States 1968 Objectives,
5 pp.
FRENCH, newspaper, Le Drapeau Rouge, No. 51,
Brussels, 22 Dec 67, p. 16.
JPRS 44,178

Rochet Speech at Sixth Week of Marxist
Thought, 15 pp.
FRENCH, np, L'Humanite, 22 Nov 1967, p 4.
JPRS 43687

First Congress of Marxist-Leninist CP of
France, 9 pp.
FRENCH, weekly, L'Humanite Nouvelle, Vol 3,
No. 83, Paris 4 Jan 68, pp. 3 and 196.
JPRS 44,178

French CP Assesses Its Development, by
Alain Duhamel, 5 pp.
FRENCH, np, Le Monde, 19/20 Nov 1967, p 8.
JPRS 43687

Marek Lecture Discusses Future of Marxism,
by Franz Marek, 11 pp.
GERMAN, per, Weg und Ziel, Vol 24, No 9,
Sept 1967, pp 414-421.
JPRS 43361

Italian Says Modern Revisionists Inconsistent,
by A.R., 5 pp.
ITALIAN, per, Nuova Unità, No 42, 28 Oct
1967, p 3.
JPRS 43361

Italian Considers Lenin's Work Still Valid,
by Lucio Magri, 47 pp.
ITALIAN, per, Problemi del Socialismo,
Vol 9, No 22, Sept 1967, pp 1058-1094.
JPRS 43687

Western Europe
Political (Contd)

Theses Outline Stand of Italian Marxist-Leninists, 16 pp.
ITALIAN, per, Rivoluzione Proletaria, No. 9, Milan, 2-3, Sept 67, pp. 3-13, 36-38, 38-45.
JPRS 44,178

Italian Communists Predict Triumph of Socialism, 5 pp.
ITALIAN, per, Rivoluzione Proletaria, Vol 2, No. 11, Milan, Nov 67, pp. 1 and 12.
JPRS 43,940

Longo Proposes Ground Rules for World Communist Conference, by Luigi Longo, 5 pp.
ITALIAN, np, L'Unita, 3 Nov 1967, p 3.
JPRS 43361

Italian CP Concludes Electoral Agreement With PSIUP, 9 pp.
ITALIAN, per, L'Unita, Rome, 15 Dec 67, pp. 1 and 10.
JPRS 43,940

Central Committee Comments, C. Napolitano, 9 pp.
ITALIAN, per, L'Unita, Rome 16 Dec 67, p. 8.
JPRS 43,940

PCI-PSIUP Statement on Agreement, 5 pp.
ITALIAN, per, L'Unita, Rome 17 Dec 67, p. 4.
JPRS 43,940

Christian-Marxist Dialogue in Sweden Discussed, by Elisabeth Hermodsson, 5 pp.
SWEDISH, weekly organ, Tidsignal, No. 49, Stockholm, 6-12 Dec 67, p. 11.
JPRS 43,940

New Socialist Program in Sweden Criticized, by Per Gahrton, 5 pp.
SWEDISH, weekly, Tidsignal, Stockholm, No. 51-52, 20 Dec 67, 2 Jan 68, p. 16.
JPRS 44,178

Military

Specific or Worldwide Defense, 7 pp.
FRENCH, rpt, Revue de Defense Nationale, Dec 1967, pp 1923-1932.
ACSI J-4092
ID 2204000168

Western Europe
Military (Contd)

The Royal Air Force Today.
DUTCH, per, Parade, No 5, May 1967, pp 6-9; 12-15; 54-55.
DIA LN 158-68

In The Land Forces, by W. C. Lemaire, 22 pp.
DUTCH, per, Parade, No 5, May 1967, pp 6-9; 12-15; 54-55.
DIA LN 158-68

The Naval Air Service Has Its 50th Birthday.
DUTCH, per, Parade, No 5, May 1967, pp 6-9; 12-15; 54-55.
DIA LN 158-68

Military Berthing Information on Port of Savona, Italy 44°19'N-08°30'E.
ITALIAN, rpt, Jun 1967.
DIA 5 850 0085 68

NSB Member of Interfrigo, by H. A. Brekke and J. B. Hegna, 17 pp.
NORWEGIAN, per, Vart Yrke, No 1, Feb 1967, pp 2-5; 14-15; 16-22.
DIA LN 442-67

Geographic

The North Sea Mediterranean Fluvial Axis, 20 pp.
FRENCH, per, Revue de la Chambre de Commerce et d'Industrie de Marseille, Jan 1967, pp 3-18.
DIA LN 357-68

The Austrian Danube, by P. Feuerstein, 31 pp.
FRENCH, per, Revue de la Navigation Interieure et Rhénane, 10 May 1959, pp 302-320.
DIA LN 137-68

Railroads and Tourist Visiting Places, 49 pp.
FRENCH, per, La Vie du Rail, Feb 1965, pp 16-31.
DIA LN 183-68

The World of the Amazons, by Reis, 12 pp.
PORTUGUESE, per, Carta Mensal, No 144-145, Mar-Apr 1967, pp 15-22.
DIA LN 207-68

Itaquí Port - State of Maranhao.
PORTUGUESE, per, Portos E Navios, No 94, June 1967, pp 112-113.
DIA LN 176-68

Western Europe
Sociological

Rector Advocates Catholic University Reform, by
Fernando Castillo Velasco, 14 pp.
SPANISH, in, El Mercurio, Santiago, 21 Nov
67, p. 22.
JPRS 43,836

AFRICA

Economic

Limitations of Foreign Aid Programs Dis-
cussed, by Jean Dureux, 7 pp.
FRENCH, per, Africa, No 42, 1967, pp 9, 11-
12.
JPRS 43322

Increase in Labor Force and Wages, 8 pp.
FRENCH, per, Africa, No 42, 1967, pp 41, 43,
69.
JPRS 43495

EEC Studies Industrial Projects for UDEAC,
12 pp.
FRENCH, per, Afrique-Express, Brussels,
Vol. 7, No. 147, 25 Oct 67, pp. 15-19, and
Vol. 7, No. 148, 10 Nov 67, pp. 13-16.
JPRS 43,856

Wood Processing, by Mohamed Abderrahmani, 9 pp.
FRENCH, per, Algerie-Actualite, 12-18 Nov 1967,
pp 6-7.
JPRS 43959

National Private Capital and Industrialization,
by Mohamed Abderrahmani, 6 pp.
FRENCH, per, Algerie-Actualite, 26 Nov-2 Dec
1967, pp 7-8.
JPRS 43959

Sericulture, by Hachemi Larabi, 6 pp.
FRENCH, per, Algerie Actualite, 26 Nov-2 Dec 1967,
pp 12-13.
JPRS 43959

Electrification of Rural Townships, 5 pp.
FRENCH, per, An Nasr, No. 791, Constantine,
6 Dec 67, p. 3.
JPRS 44,009

Africa
Economic (Contd)

Palm Oil Production in Cameroon, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire,
No 470, 5 Jul 1967, pp 9490-9492.
JPRS 43322

Survey of Chadian Foreign Trade in 1966, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire,
No 480, 18 Oct 1967, pp 9688-9690.
JPRS 43495

Upper Volta's Foreign Trade in 1966, 5 pp.
FRENCH, per, Bulletin de l'Afrique Noire,
No. 483, Paris, 8 Nov 67, pp. 9754-9756.
JPRS 43,856

French Aid Program to Upper Volta, 5 pp.
FRENCH, publication, Bulletin de l'Afrique
Noire --BAN, Paris, No. 484, 15 Nov 67, pp.
9773-9775.
JPRS 44,009

French Aid Program to Niger, 5 pp.
FRENCH, publication, Bulletin de l'Afrique
Noire --BAN, Paris, No. 484, 15 Nov 67,
pp. 9778-9780.
JPRS 44,009

French Aid Program to Dahomey, 5 pp.
FRENCH, publication, Bulletin de l'Afrique
Noire, BAN, Paris, No. 486, 29 Nov 67, pp.
9811-9813.
JPRS 44,009

Training Program for African Technicians in
France, by H. Salgues de Genies, 6 pp.
FRENCH, per, Cooperation et Developpement,
No 17, Sept-Oct 1967, pp 33-36.
JPRS 43495

Chinese-Built Hotel Inaugurated in Mali, by
Abdou Gassama, 6 pp.
FRENCH, per, L'Essor, 9 Nov 1967, pp 1 and 4.
JPRS 43964

Reorganization of State Budget Demanded, 12 pp.
FRENCH, per, Etumba, Brazzaville, Vol 13,
No. 54, 7 Dec 67, pp. 1, 11-12.
JPRS 44,009

General Survey of Mining Production in Africa,
6 pp.
FRENCH, per, Europe France Outre-mer, No 452,
Sept 1967, pp 19, 21-23, 25.
JPRS 43495

Africa
Economic (Contd)

Exploitation of the Holle Potassium Deposits, 7 pp.
FRENCH, per, Europe France Outre-Mer, No 452, Sept 1967, pp 31-33.
JPRS 43495

New Sugar Cane Cooperative in Kindia, by Amadou Ly, 6 pp.
FRENCH, daily, Horoya, Conakry, 7 Dec 67, pp. 1-2; and Dec 8 67, pp. 1-2.
JPRS 43,868

Law Setting Up Rwandan Development Bank, 13 pp.
FRENCH, per, Journal Officiel de la Republique Rwandaise, Vol 6, No 16, 15 Aug 1967, pp 299-308.
JPRS 43573

West German Aid Policy Towards Africa, 5 pp.
FRENCH, magazine, Le Mois en Afrique, No. 23, Dakar, Nov 67, pp. 34-38.
JPRS 43,856

Trade Relations Between West Germany and Africa, by Eva-Marie Bruchhaus, 21 pp.
FRENCH, magazine, Le Mois en Afrique, No. 23, Dakar, Nov 67, pp. 39-59.
JPRS 43,856

Data on Household Goods, Markets and Industries in French-Speaking Africa, 8 pp.
FRENCH, np, Le Moniteur Africain, No 316, 19 Oct 1967, pp 11-12.
JPRS 43322

African Farm Mechanization Lags, 6 pp.
FRENCH, np, Le Moniteur Africain, No 318, 2 Nov 1967, pp 10-12.
JPRS 43638

Growth of African Processing Industries, 10 pp.
FRENCH, np, Le Moniteur Africain, Dakar, 16 Nov 67, pp. 10-12.
JPRS 43,868

Progress in Gabonese Economy Viewed as Favorable, 7 pp.
FRENCH, newspaper, Le Moniteur Africain, No. 321, Dakar, 23 Nov 67, pp. 6 and 9.
JPRS 44,009

Africa
Economic (Contd)

Trade Between Japan and French-Speaking Africa Outlined, 5 pp.
FRENCH, newspaper, Le Moniteur Africain, Dakar, No. 322, 30 Nov 67, p. 5.
JPRS 44,009

Economy Still Fragile Despite Development Efforts, 7 pp.
FRENCH, newspaper, Le Moniteur Africain, No. 322, Dakar, 30 Nov 67, pp. 6, 8.
JPRS 44,009

Economic and Financial Recovery in Congo (Kinshasa), 6 pp.
FRENCH, np, Le Moniteur Africain, No. 123, Dakar, 7 Dec 67, pp. 7-8.
JPRS 44,112

Large Investments Approved by Algerian Government, by K. Bekacem, 5 pp.
FRENCH, np, El Moudjahid, 20 Oct 1967, pp 1 & 3.
JPRS 43495

Sonarem: National Corporation for Mining Research and Production, 10 pp.
FRENCH, np, El Moudjahid, 1 Nov 1967, p 4.
JPRS 43569

Bureau of Industrial Research and Projects under Ministry of Industry and Energy, 5 pp.
FRENCH, np, El Moudjahid, 1 Nov 1967, p 6.
JPRS 43569

The Annaba Steel Mill in Algeria, 7 pp.
FRENCH, np, El Moudjahid, 1 November 1967, p 2.
JPRS 43569

Worker-Managed Enterprises Get Funds, 5 pp.
FRENCH, per, El Moudjahid, 30 Dec 67, pp. 1 and 3.
JPRS 44,141

Budget for 1968 Launches Algeria's Economic Growth, by A.R. Khiari, 6 pp.
FRENCH, per, El Moudjahid, Algiers, 5 Jan 68, p. 3.
JPRS 44,141

Africa
Economic (Contd)

Industrial Revolution and Revitalized Agriculture
Correct Regional Imbalance, 13 pp.
FRENCH, per, La Republique, 3-4 Dec 1967, pp 2-3.
JPRS 43959

The 1967 Law on Finances: A Lecture by Mr.
Azouzi, 9 pp.
FRENCH, newspaper, La Republique, Orah,
5 Dec 67, pp. 11-12.
JPRS 44,009

Future Dimensions of Aid to Africa, by
Prof. Rene Dumont, 10 pp.
FRENCH, per, Revue de Defense Nationale,
Paris, Vol. 23, Dec 67, pp. 1933-1941.
JPRS 43,792

Railroad Aids Urban Renewal in Tananarive, by
Marcel Coquel, 8 pp.
FRENCH, magazine, La Vie du Rail Outre-Mer,
Paris, Dec 67, pp. 12-16.
JPRS 44,009

Political

Five Years of the Algerian Revolution, by
Ibrahim Ahmed, 6 pp.
ARABIC, np, al-Jumhuriyyah, 1 Nov 1967, p 3.
JPRS 43638

Yansi Political Society, by Paul Malembé,
18 pp.
FRENCH, per, Cahiers Economiques et Sociaux,
Kinshasa, Vol. 5, No. 2, June 67, pp. 221-235.
JPRS 43,791

Two Concepts of Socialism in Africa, by Rene
Beckmans, 16 pp.
FRENCH, per, Congo-Afrique, Kinshasa, No. 19,
Nov 67, pp. 446-460.
JPRS 44,112

Congo (Kinshasa) Provinces Face Grave Problems,
10 pp.
FRENCH, newspaper, Le Courrier d'Afrique,
Kinshasa, 12 Oct 67, pp. 1,2; Oct 67, pp. 1,6;
21-22 Oct 67, pp. 1,3.
JPRS 43,868

Algeria: Bastion of Arab Resistance, by
G. Virstelle, 6 pp.
FRENCH, per, Croissance des Jeunes Nations,
Paris, No. 71, Nov 67, pp. 34-36.
JPRS 44,009

Africa
Political (Contd)

Keita Speech on Internal Dangers in Mali, by
Modibo Keita, 12 pp.
FRENCH, per, L'Essor Hebdomadaire, No 435, 27
Nov 1967, pp 1, 5, 6 and 7.
JPRS 43964

New Aspect of Soviet Policy in Black Africa, by
Nicolas Lang, 8 pp.
FRENCH, per, Est et Ouest, Vol 19, No 394, 1-15
Dec 1967, p 1-5.
JPRS 43964

Congo(Kinshasa) Workers' Union Declares
Objectives, 13 pp.
FRENCH, per, Etudes Congolaises, Vol X-4,
No. 85F, Brussels, July-August 67, pp. 67-
76, and 82-84.
JPRS 43,868

Development of the Sikensi Sub-Prefecture,
5 pp.
FRENCH, np, Fraternite, 20 Oct 1967, pp 6-7.
JPRS 43573

Finance Minister Favors Socialist Path for
Mali, by Justin Vieyra, 6 pp.
FRENCH, per, Jeune Afrique, Paris/Tunis,
No. 366, 14 Jan 68, pp. 10-12.
JPRS 44,141

The People's Army of Guinea, 5 pp.
FRENCH, np, Horoya, 1 & 2 Nov 1967, pp 4 & 3;
3 Nov 1967, pp 4 & 3.
JPRS 43573

Guinea's Agriculture on a Socialist Course,
8 pp.
FRENCH, per, Horoya, Conakry, 17 Nov 67,
pp. 1-2; 18 Nov 67, pp. 1-2.
JPRS 43,792

Two Cases of West German-Guinean Cooperation,
12 pp.
FRENCH, daily, Horoya, Conakry, 2 Dec 67, pp.
1, 2; Dec 3-4, pp. 1,2,3,4.
JPRS 43,831

President Tombalbaye Surveys Chad's Situation,
by Francois Tombalbaye, 29 pp.
FRENCH, bulletin, Info Tchad, Fort Lamy,
2 Nov 67, pp. 1-13 and 3 Nov 67, pp. 1-17.
JPRS 43,868

Africa
Political (Contd)

Difficulties on Road to Spanish Guinean Independence, by Rene Pelissier, 5 pp.
FRENCH, per, Le Mois en Afrique, No 22, Oct 1967, pp 13-17.
JPRS 43495

Bourguiba's Efforts for Tunisian Development Lauded, by Andre Fontaine, 7 pp.
FRENCH, np, Le Monde, 27 Oct 1967, pp 1-2.
JPRS 43495

Magareb Disunity Worsened by Middle East Conflict, 6 pp.
FRENCH, np, Le Monde Diplomatique, No 163, Oct 1967, p 12.
JPRS 43495

Official of Union of Cameroonian Peoples Interviewed, 14 pp.
ITALIAN, per, Mondo Nuovo, Vol 9, No 42, 22 Oct 1967, p 14; and Vol 9, No 43, 29 Oct 1967, p 17.
JPRS 43573

Process of Formation of the Senegalese Nation, by Abdoulaye Bara Diop, 11 pp.
FRENCH, per, Revue de l'Institut de Sociologie, Issues 2-3, Brussels, 1967, pp. 217-230.
JPRS 44,112

Slow Development of Senegalese Communes Observed, by Jean-Paul Masseron, 6 pp.
FRENCH, per, Revue Juridique et Politique, Paris, Vol 21, No. 4, Oct-Dec 67, pp. 553-558.
JPRS 44,112

General Assembly of Sahara Elected, by Manuel Castilla Ortega, 9 pp.
SPANISH, per, Africa, No 310, Oct 1967, pp 516-520.
JPRS 43573

Newly Elected Spanish Saharan Officials Interviewed, 8 pp.
SPANISH, per, Africa, Madrid, No. 311, Nov 67, pp. 27-29.
JPRS 43,792

Africa
Military

Wartime Civil Protection Plans in Algeria, 5 pp.
FRENCH, np, An Nasr, No. 794, Constantine, 9 Dec 67, p. 4.
JPRS 44,009

ANC Troop Strength and Training, by B. Verhaegen, 15 pp.
FRENCH, per, Etudes Congolaises, Brussels, Vol. X-4, No. 85F, July-Aug 67, pp. 13-24.
JPRS 43,868

Military Training for Young People in Tunisia, 5 pp.
FRENCH, per, La Presse de Tunisie, Tunis, 19 and 20 Dec 67, p. 2.
JPRS 44,009

Study on Rise of Military Governments in Black Africa, by Gilbert Tixier, 17 pp.
FRENCH, quarterly, Revue Juridique et Politique, Paris, Vol. 21, No. 4, Oct-Dec 67, pp. 559-576.
JPRS 44,009

Characteristics of the 60 MM "Comando Type" Mortar, 12 pp.
SPANISH, bk, Caracteristicas Del Mortero Cal. 60 MM Tipo Comando, Nov 1965.
ACSI J-3497
ID Incl to 2902001966

Defense Supply Office - 1966/1967 (Contingent), 13 pp.
SWEDISH, per, Svensk Intendentur Tidskrift, No 3-4, 1966/1967, pp 94-103.
ACSI J-3406
ID 2204044067

Geographic

Belgian Contribution to Geographic Research in Central Africa, by J. Wilmet, 15 pp.
GERMAN, per, Afrika Heute, No. 15, Bonn, 15 Oct 67, pp. 1-6.
JPRS 43,836

Africa
Sociological

Problems of Algerian Arabization Discussed, by Salah al-'Aqad, 8 pp.
ARABIC, per, al-Ahram al-Iqtisadi, 15 Nov 1967, pp 55-57.
JPRS 43964

Fetishism in Dahomey Described, by Giovanna Salvioni, 9 pp.
FRENCH, per, L'Afrique Actuelle, No 21, 1967, pp 34-37.
JPRS 43495

Yansi Tribal Traditions in Congo-Kinshasa, 23 pp.
FRENCH, per, Cahiers Economiques et Sociaux, Kinshasa, Vol. 5, No. 2, June 67, pp. 203-220.
JPRS 43,791

Traditional Medicine in Guinea, 5 pp.
FRENCH, newspaper, Horoya, Conakry, 29 Nov 67, pp. 1,2; and 30 Nov 67, pp. 1,2.
JPRS 43,868

Ratona Rural Training School Visited, by A. Barry, 5 pp.
FRENCH, per, Horoya, Vol 7, No. 1355, Conakry, 15 Dec 67, pp. 1 and 2 and No. 1356, 16 Dec 67, pp. 1 and 3.
JPRS 44,009

Algerian Emigration Outlined, 16 pp.
FRENCH, np, El Moudjahid, 4, 5, 6, 7, 8 Nov 1967, pp 1 & 3, and 9 Nov 1967, pp 1 & 10.
JPRS 43638

New Youth Class in Congo(Brazzaville) Analyzed, by Pierre Bonnafe, 13 pp.
FRENCH, per, Revue de l'Institut de Sociologie, Brussels, No. 2/3, 67, pp. 321-335.
JPRS 44,009

Background of the Higher Guinean Public Service, by Prof. Bernard Charles, 9 pp.
FRENCH, publication, Revue de l'Institut de Sociologie, Brussels, Issues No 2-3, 1967, pp. 345-353.
JPRS 44,112

Africa
Sociological (Contd)

Somali Police and Army Irregularities Criticized, by Abdurrahman Mohamed Issa, 5 pp.
ITALIAN, per, La Tribuna, Vol I, No 12, 1 Nov 1967, pp 20 & 21.
JPRS 43495

Data on Initiation and Purification Rites of the Bulu Tribe of Spanish Guinea, 9 pp.
SPANISH, per, La Guinea Espanola, Vol 65, No 1614, June 1967, pp 78-81 and Vol 65, No 1615, July 1967, pp 94-97.
JPRS 43322

MIDDLE EAST

Economic

Recent Events Affect Petroleum Industry, by Mahmud Amin, 5 pp.
ARABIC, np, al-Ahram, 27 Nov 1967, p 5.
JPRS 43881

UAR Foreign Trade Policy, by Ali Lutfi, 7 pp.
ARABIC, per, Al-Ahram al-Iqtisadi, 1 Nov 1967, pp 22-24.
JPRS 43724

UAR Economic Growth, by Nabil Sabbagh, 13 pp.
ARABIC, per, Al-Ahram al-Iqtisadi, 1 Nov 1967, pp 25-29.
JPRS 43724

Downward Curve of Gold Prices in U.A.R., by Nabil Sabbagh, 15 pp.
ARABIC, per, al-Ahram al-Iqtisadi, 15 Nov 1967, pp 24-27.
JPRS 43881

Evaluation of Economy of Agricultural Sector in First Five Year Plan in U. A. R., by Hasan Hasani, 11 pp.
ARABIC, per, Al-Iqtisad wa al-Muhasabah, Nov 1967, pp 13-15.
JPRS 43881

Economic and Fiscal Decrees Promulgated, 9 pp.
ARABIC, np, al-Jaridah al-Rasmiyyah, No 77, 31 Aug 1967, pp 483, 490-496.
JPRS 43656

Middle East
Economic (Contd)

Cooperative Systems and Small Industries
Under the Revolutionary Regime, 13 pp.
ARABIC, per, Al-Ta'bi'ah Al-'Ammah wa
Al-Ihsa'i, Cairo, Nov 67, pp. 7-17.
JPRS 44,176

Development of Tourism in the UAR, 13 pp.
ARABIC, per, Al-Ta'bi'ah Al-'Ammah wa
Al-Ihsa'i, Cairo, Nov 67, pp. 18-28.
JPRS 44,176

Development of Air Transportation in the UAR,
17 pp.
ARABIC, per, Al-Ta'bi'ah Al-'Ammah wa Al-Ihsa'i,
Cairo, Nov 67, pp. 29-44.
JPRS 44,176

Allocation of Crop Cultivation by Ministry
of Agriculture, 5 pp.
ARABIC, np, al-Waqa'1'a al Misriyyah, No
213, 26 Oct 1967, pp 3-5.
JPRS 43650

Economic Dimensions of the Arab-Israeli Problem,
by Ernest Teilhac, 10 pp.
FRENCH, publication, Le Commerce du Levant,
Beirut, No. 88, 15 Dec 67, pp. 21-25.
JPRS 44,030

The Iraq of Today, by Bernard Vernier, 57 pp.
FRENCH, rpt, L'Histoire de L'Irak Jusqu'en,
1963, pp 56-58, 99-122, 123-140, 141, 164,
and 245-267.
ACSI J-3761
ID 2204054867

Interior Ministry Gives a Six-Month Report, 5 pp.
GREEK, np, Elevtheros Kosmos, Oct 1967, pp 1,
14.
JPRS 43881

Further Details on Center-EDA Cooperation
On the Local Level, 3 pp.
GREEK, newspaper, Elevtheros Kosmos, Athens,
3 Jan 67, p. 7.
JPRS 44,176

Middle East
Political

Yemen's Great 20th Century Transition,
15 pp.
ARABIC, np, al-Ahram, 1 Sept 1967, pp 10-11.
JPRS 43543

Arab Struggle against Zionism, by Lufti
al-Khowla, 7 pp.
ARABIC, np, al-Ahram, 10 Sept 1967, p 5.
JPRS 43543

Fiftieth Anniversary of USSR and Arab-
Soviet Friendship, by Dr. Isma'il Sabry, 10 pp.
ARABIC, np, Al Ahram, 9 & 10 Nov 1967.
JPRS 43724

The Secret Path, by Lotfi El Khol, 6 pp.
ARABIC, np, al-Ahram, 11 Nov 1967, p 5.
JPRS 43724

New Organization Introduced into the Private
Sector After the Revolution, by Dr. Fu'ad
Mursi, 14 pp.
ARABIC, newspaper, Al-Ahram, Cairo, 1 and 2
January 1968.
JPRS 44,176

The Report of Anwar Al-Sadat, 12 pp.
ARABIC, newspaper, Al-Akhbar, Cairo, 19 Nov
67, p. 3.
JPRS 43,803

Mobilise and Organise the Masses to Strengthen
the Nation, by Mustafa Tayyiba, 6 pp.
ARABIC, np, Al-Akhbar, 29 Nov 1967, p 3.
JPRS 44001

New Light on Passports, by Maj.Gen.Fathi al-Qadi,
7 pp.
ARABIC, per, al-Ann Al-'Ann, No. 38, Cairo,
July 67, pp. 17-22
JPRS 43,824

Law Regulating Gatherings of People, by
Mustafa Taher, 11 pp.
ARABIC, per, al-Ann al-'Ann, No. 38, Cairo,
July 67, pp. 57-64.
JPRS 43,824

The Right to Register Complaints Against Public
Officials, by Hafez al-Salmi, 21 pp.
ARABIC, per, al-Ann al-'Ann, No. 38, Cairo,
July 67, pp. 71-86.
JPRS 43,824

Middle East
Political (Contd)

An Analytical Study of the Conflicts within the Socialist Camp, by Afif al-Bizri, 32 pp. ARABIC, np, Ila-al-Amam, 8, 15, 22 & 29 Oct 1967. JPRS 43724

The Arab Homeland and Colonialism, by Afif Bizri, 9 pp. ARABIC, newspaper, Ila-al-Amam, Beirut, 19 Nov 67, p. 2. JPRS 43,860

The Arab Homeland and Colonialism, Part II, by Afif Bizri, 10 pp. ARABIC, newspaper, Ila-al-Amam, Beirut, 26 Nov 67, p. 3. JPRS 43,860

Soviet Aid to Arab Revolutionary Struggle Hailed, by Fu'ad Nassar, 5 pp. ARABIC, np, al-Ittihad, 27 Oct 1967, p 3. JPRS 43687

Various Decrees Published in the UAR Official Gazette, 5 pp. ARABIC, per, al-Jaridah al-Rasmiyyah, 3 Sept 1967, pp 2-3. JPRS 43379

Exodus and Political Organization, by Dr. Muhammad Anis, 5 pp. ARABIC, np, Al-Jumhuriyyah, 19 Oct 1967, p 5. JPRS 43656

Arab Cause Calls for Homeland Battle, by Dr. Muhammad Anis, 5 pp. ARABIC, np, al-Jumhuriyyah, 2 Nov 1967, p 7. JPRS 43543

The Socialist Experiment in UAR, by Kamal Raf'at, 9 pp. ARABIC, newspaper, Al-Jumhuriyyah, Cairo, 16 Nov 67, p. 7. JPRS 43,803

Arab Socialist Experiment Between Internationalism and Humanitarianism, by Kamal Al-Din Rif'at, 9 pp. ARABIC, per, Al-Jumhuriyyah, 30 Nov 1967, p 7. JPRS 44001

Address of Nur Ad-Din Qurrah Before the National Congress, 20 pp. ARABIC, newspaper, Al-Jumhuriyyah, Cairo, 12 Dec 67, p. 3. JPRS 44,139

Middle East
Political (Contd)

The New Face of Colonialism and Its Inside Agents, 28 pp. ARABIC, per, al-Katib, Cairo, No. 61, April 66, pp. 2-30. JPRS 44,178

The Imperialist Aggression and Social Revolution, Dr. Muhammad Anis, 5 pp. ARABIC, per, al-Katib, Cairo, No. 79, Oct 67, pp. 2-5. JPRS 44,177

Historical Dimensions of the Movement of the Masses, by Jalal al-Sayyid, 14 pp. ARABIC, per, al-Katib, Cairo, No. 79, Oct 67, pp. 17-26. JPRS 44,177

The Basis of Defeatist Thinking, by Adib Dimitri, 14 pp. ARABIC, per, al-Katib, Cairo, No. 79, Oct 67, pp. 44-54. JPRS 44,177

Palestinian Fedayeen Relate Details of Their Operations within Israel, by Lenora Stradell, 8 pp. ARABIC, per, al-Musawwar, 8 Dec 1967, pp 25-26, 31-32. JPRS 44001

The Question of the Moment: How? 9 June Means the Continuation of the Socialist Revolution, by Dr. Muhammad Khafif, 8 pp. ARABIC, per, Al-Tali'ah, Oct 1967, pp 23-26. JPRS 43496

The Question of the Moment: How? The Democracy of the Working People in Application, by Dr. 'Isma'il Sabri 'Abuallah, 27 pp. ARABIC, per, Al-Tali'ah, Oct 1967, pp 27-37. JPRS 43496

The Question of the Moment: How? Two Principal Obligations Facing the Working Class, by 'Abdul-Mun'am Al-Ghassali, 6 pp. ARABIC, per, Al-Tali'ah, Oct 1967, pp 38-41. JPRS 43496

The Question of the Moment: How? Our Position with Regard to the Imperialist Enemy, by Sa'ad Zahran, 11 pp. ARABIC, per, Al-Tali'ah, Oct 1967, pp 59-64. JPRS 43496

Middle East
Political (Contd)

The Role of Afro-Asian Solidarity in the
Battle of Palestine, by Mursi Sa'ad Al-Din,
6 pp.
ARABIC, per, Al-Tali'ah, Oct 1967, pp 65-
67.
JPRS 43496

Six Months of Aggression and Resistance, the War
of the Crow and the Elephant, by Lutfi al-Khawli,
38 pp.
ARABIC, per, al-Tali'ah, Dec 1967, No 12, pp 56-
75.
JPRS 43999

Report on Situation in Mideast, by Khalid
Muhyi ad-Din, 11 pp.
ARABIC, per, al-Tali'ah, No 12, 3rd Year, Dec
1967, pp 76-81.
JPRS 43999

Revolutions and the Role of the Trade Unions,
by 'Atiyyah al-Sayrifi, 12 pp.
ARABIC, per, al-Tali'ah, Dec 1967, pp 86-91.
JPRS 43999

An Interview with Carmichael, 19 pp.
ARABIC, per, Al-Tali'ah, Dec 1967, pp 143-
153.
JPRS 43999

Decision to Establish Specifications and Measure-
ments Organisation within the Arab League, 8 pp.
ARABIC, per, Al-Waga'i Al-Misriyyah, No 241, 28
Nov 1967, pp 2-5.
JPRS 43938

Archives Reveal EDA Pre-Election Strategy,
5 pp.
GREEK, newspaper, Elevtheros Kosmos, Athens,
1 Nov 67, pp. 1, 11.
JPRS 43,803

EDA Among Greeks Abroad Revealed, 7 pp.
GREEK, daily newspaper, Elevtheros Kosmos,
Athens, 8 Nov 67, pp. 1 and 6.
JPRS 43,829

Organisations Express Support of Government
Following Coup, 5 pp.
GREEK, per, Elevtheros Kosmos, 15 Dec 1967, p 7.
JPRS 44001

Minister of Information Interviewed on Current
Problems, by Hannah Zemer, 8 pp.
HEBREW, weekly, Bamahaneh, Tel Aviv, 5 Dec 67,
pp. 6 and 7.
JPRS 43,829

Middle East
Political (Contd)

Socialist Women's Delegation will Submit Report
on Israel to International, by Ada Houzifis,
5 pp.
HEBREW, np, Davar, 30 Nov 1967, p 6.
JPRS 43881

HAARETS Interview with Rabin, 13 pp.
HEBREW, newspaper, Haarets, Tel Aviv, 22 Dec 67,
pp. 3, 12.
JPRS 44,176

Israel's Way to Socialism Discussed, by
Eliezer Hacoam, 9 pp.
HEBREW, newspaper, Al Hamishmar, Tel Aviv,
18 Oct 67, p. 4.
JPRS 43,847

Toward Peace and Against Annexation, by
Esther Wilenske, 7 pp.
HEBREW, np, Kol Haam, 13 Oct 1967, pp 2, 5.
JPRS 43379

Mikunis' Speech at Celebration Ceremony of
October Revolution, by Shemuel Mikunis, 7 pp.
HEBREW, np, Kol Haam, 7 Nov 1967, pp 2 & 9.
JPRS 43724

Israel Celebrates October Revolution, by
Esther Vilenska, 5 pp.
HEBREW, np, Kol Haam, 7 Nov 1967, pp 2 & 9.
JPRS 43724

Israeli CP Defends October Revolution, by
Moshe Sneh, 7 pp.
HEBREW, np, Kol Haam, 7 Nov 1967, pp 2 & 9.
JPRS 43724

Naki Representative, Berl Balti, at Milan
Symposium, 8 pp.
HEBREW, np, Kol Haam, 3 Nov 1967, pp 2 & 5.
JPRS 43724

Dutch CP Seen as Israeli CP Ally, by Ya'acov
Zilber, 6 pp.
HEBREW, newspaper, Kol Haam, Tel Aviv,
1 Dec 67, pp. 2 and 3.
JPRS 43,847

ICP Leader Extols Security Council Resolution,
by S. Mikunis, 5 pp.
HEBREW, daily, Kol Ha'am, Tel Aviv, 15 Dec 67,
p. 2.
JPRS 44,030

An Arab State in the West Bank Linked to Israel Claimed as Clue to Crisis, by Aharon Cohen, 7 pp. HEBREW, daily, Kol Ha'am, Tel-Aviv, 15 Dec 67, p. 4. JPRS 44,030

The "Peace Party" Versus the "Greater Israel Party", by D. Peter, 9 pp. HEBREW, newspaper, Kol Ha'am, Tel Aviv, 15 Dec 67, pp. 3 and 5. JPRS 44,030

Mikunis Opposes the Labor Court Bill, by Sh. Mikunis, 5 pp. HEBREW, per, Kol Ha'am, 20 Dec 1967, p 2. JPRS 44001

Telegrams Deploing Attack on Meir Vilner, 5 pp. HEBREW, mp, Zo Haderekh, 24 Oct 1967, p 4. JPRS 43687

A Personal View of International Politics, Revolution, and Freedom, by Ali-Asghar Haj Seyyed Javady, 13 pp. IRANIAN, per, Negin, Nov 1957. JPRS 43877

Israel's Attitude toward Arabs Discussed by Italian CP Newsmen, by Augusto Pancaldi, 5 pp. ITALIAN, mp, L'Unita, 24 Oct 1967, p 3. JPRS 43379

Conditions in Gaza under Israel Occupation, by Augusto Pancaldi, 5 pp. ITALIAN, mp, L'Unita, 29 Oct 1967, p 3. JPRS 43656

Military

Towards Joint Revolutionary Defensive Positions, by Litfi Al-Khauili, 11 pp. ARABIC, per, Al-Tali'ah, Oct 1967, pp 5-11. JPRS 43496

Israel's Postwar Military Position According to Yitschak Rabin, 10 pp. HEBREW, per, Bamahane, Tel Aviv, 26 Dec 67, pp. 5-7. JPRS 44,176

Sterilization for Facing the Population Explosion and Combatting Crime, by Dr. Farid Ahmad al-Qadi, 8 pp. ARABIC, per, al-Amm al-'Amm, No. 38, Cairo, July 1967, pp. 37-42. JPRS 43,824

The Impossible Crime and Its Effects on Public Security, by Suleiman 'Abd al-Majid, 12 pp. ARABIC, per, al-Amm al-'Amm, No. 38, Cairo, July 67, pp. 43-50. JPRS 43,824

The Crimes of Importing and Exporting Bank Notes, by Col. Dr. 'Adel Hafed Ghanem, 8 pp. ARABIC, per, al-Amm al-'Amm, No. 38, Cairo, July 67, pp. 51-56. JPRS 43,824

The Emergence of the Department of Public Security, by Maj. Ibrahim al-Fahham, 9 pp. ARABIC, per, al-Amm al-'Amm, No. 38, Cairo, July 67, pp. 65-70. JPRS 43,824

Dr Tharwat 'Alkasha Discusses Cultural Activity, by Ahmad Hajazi, 8 pp. ARABIC, per, Rose al-Yusuf, 27 Nov 1967, pp 27-30. JPRS 44001

Land Reclamation: Yesterday and Today, 12 pp. ARABIC, per, Al-Ta'bi'ah Al-'Ammah wa Al-Ihsa'i, Cairo, Nov 67, pp. 68-77. JPRS 44,176

A Study in the Society of Iraq, by Ali Wardi. ARABIC, bk, A Study in the Society of Iraq, Sect. I, pp 11-116, Sect II, pp 258-370, Chap 6, Intellectuality, pp 142-165, Chap 9, Religion, pp 222-257. *ACSI J-4093 ID 2204000268

Punishment Schedule Applicable to Police Force, 9 pp. ARABIC, mp, al Waga'l'a al Misriyyah, No 208, 21 Oct 1967, pp 2-5. JPRS 43656

The Daily Miracle of 'TV Journal' and the Adventures of a Purchase Order, 5 pp. FRENCH, per, El Moudjahid, 14 Dec 1967, p 4. JPRS 43964

School Building Program Disclosed, 6 pp. GREEK, newspaper, Eleftheros Kosmos, Athens, 8 Nov 67, pp. 1, 6. JPRS 43,803

Economic

Petroleum Industry in Communist China, 13 pp.
CHINESE, per, Fei-ch'ing Yen-chiu, Vol 1, No 9,
30 Sept 1967, pp 52-57.
JPRS 43561

Survey of the Chinese Communist Sugar Industry,
by Lu Yun (4151 7189), 32 pp.
CHINESE, per, Fei-ch'ing Yen-chiu, Vol 1, No 9,
30 Sept 1967, pp 96-109.
JPRS 43561

Chinese Communist Tightening Control over
Rural Market Management, by Kuan Shan-yuan,
11 pp.
CHINESE, per, Fei-ch'ing Yen-chiu, Vol 1,
No 10, 31 Oct 1967, pp 20-25.
JPRS 43690

Effort of the "Cultural Revolution" on
Agriculture in Mainland China, by Lin Ch'en,
15 pp.
CHINESE, per, Fei-ch'ing Yen-chiu, Vol 1,
No 10, 31 Oct 1967, pp 51-57.
JPRS 43690

A Study of the Chinese Communist Collection of
Grain as Agricultural Tax, by Kuan Shan-yuan,
16 pp.
CHINESE, per, Fei-ch'ing Yueh-pao, Vol 10, No 9,
1 Nov 1967, pp 55-63.
JPRS 43937

Basic Reasons for the Unfavorable Balance
in Communist China's Foreign Trade, by
Wang Shu-yao, 11 pp.
CHINESE, per, Fei-ch'ing Yen-chiu, Taipei,
Vol 1, No. 11, 30 Nov 67, pp. 14-20.
JPRS 44,165

A General View of the 1967 Agricultural
Production on the Mainland, by Lin Pin, 15 pp.
CHINESE, per., Fei-ch'ing Yueh-pao, Taipei,
Vol 10, No. 10, 1 Dec 67, pp. 39-45.
JPRS 44,165

The Effect of the Great Cultural Revolution
Chaos on Chinese Commerce, 6 pp.
CHINESE, per, Fei-ch'ing Yueh-pao, Vol 10,
No. 10, Taipei, 1 Dec 67, pp. 49-51.
JPRS 44,165.

Applications of Radio Electronic Techniques in
National Economy, by Tsao Ia, 6 pp.
CHINESE, per, Ma Hsien Tien Chi Sun, No 9, 1965,
pp 36-37. P100362967
FTD-HT-66-533

Mineral Resources of the Vietnamese Democratic
Republic, by Jiri Losert, 21 pp.
CZECH, per, Vestnik UUG, Roc XII, 1966,
pp 1-21.
DIA LN 299-68

Administrative Structure On Road and Land.
JAPANESE, per, Expressways & Automobiles, Vol IX,
No 12, 1966, pp 49-60.
DIA LN 185-63

Transportation In Okinawa, by Souin Kaya, 31 pp.
JAPANESE, per, Expressways & Automobiles, Vol IX,
No 12, 1966, pp 49-60.
DIA LN 185-68

Transportation In Thailand, 35 pp.
JAPANESE, per, Expressways & Automobiles, Vol IX,
No 8, 1966, pp 77-89.
DIA LN 186-68

Priority Development of Heavy Industry and
Simultaneous Development of Light Industry
and Agriculture, by Yun Ch'i-ho, 16 pp.
KOREAN, monthly organ, Kulloja, No. 9,
P'yongyang, 30 Sept 67, pp. 28-36.
JPRS 44,010

More Economizing in the National Economy, by
Yi Chong-hwan, 12 pp.
KOREAN, monthly organ, Kulloja, No. 9,
P'yongyang, 30 Sept 67, pp. 37-43.
JPRS 44010

The Flying Horse Work Team Movement in Rural
Areas, 6 pp.
KOREAN, np, Minju Choson, P'yongyang, 4 Nov
67, p. 1.
JPRS 44,041

Praise Superiority of New Agricultural Leader-
ship System, 6 pp.
KOREAN, np, Minju Choson, 10 Nov 1967, p 1.
JPRS 43963

Our Country Has Emerged as a Strong Socialist
Industrial-Agricultural State, by Yun Nae-gil,
9 pp.
KOREAN, newspaper, Minju Chosun, P'yongyang,
21 Nov 67, pp. 2-3.
JPRS 44,175

More Cement Production Called For, by Hong Ye-
sik, 5 pp.
KOREAN, np, Modong Sinmun, 21 Oct 1967, p 6.
JPRS 43542

Half-Century Soviet Achievements Praised, by I. K. Sudalikov, 7 pp.
KOREAN, np, Nodong Sinmun, 3 Nov 1967, p 3.
JPRS 43887

Improved Processing of Marine Products is a Key to the Higher Standard of Living, by Yu Tal-Soo, 5 pp.
KOREAN, per, Nodong Sinmun, 28 Nov 1967, p 3.
JPRS 43963

New Agricultural Guidance System Lauded, by Won Song-hui, 10 pp.
KOREAN, daily organ, Nodong Sinmun, P'yongyang, 22 Dec 67, pp. 2-3.
JPRS 44,175

Equitable Labor Assessment Stressed, by Yim Hong-hyok, 6 pp.
KOREAN, per, Nongop Kulloja, 25 Oct 1967, p 4.
JPRS 43963

Deductions for the Depreciation of Stock Capital, by O. Delgerjab, 5 pp.
MONGOLIAN, per, Unen, 1 June 1967, p 2.
JPRS 43901

Discussion on Livestock Raising, 17 pp.
VIETNAMESE, np, Nhan Dan, 15, 16, 17 and 18 Nov 1967.
JPRS 43805

Problems and Progress in Food Supply, by Phan Quang, 7 pp.
VIETNAMESE, daily, Nhan-dan, Hanoi, 1 Dec 67, p. 2.
JPRS 44,113

Properly Carrying Out the 10th Month Food Activity, by Tran Van Hien, 6 pp.
VIETNAMESE, newspaper, Nhan Dan, Hanoi, 2 Dec 67, p. 2.
JPRS 44,149

Second Five Metric Ton Year for Thai Binh Province, by Van Son, 9 pp.
VIETNAMESE, daily, NhanDan, Hanoi, 10 Dec 67, p. 2.
JPRS 44,113

Statistical Duties Relating to Commerce, Finance, and Prices in 1967, by Tran Hai Bang, 5 pp.
VIETNAMESE, per, Thong Ke, No 1, 1967, pp 2-3.
JPRS 43885

Step Up Labor and Population Statistical Work to Better Serve the Leadership in its Production and Fighting Guidance, by Huy Thanh, 5 pp.
VIETNAMESE, per, Thong Ke, No 1, 1967, pp 5-7.
JPRS 43885

Methods of Computing Labor Productivity in Mechanical Enterprise in our Country, by Nguyen Tan Cu, 9 pp.
VIETNAMESE, per, Thong Ke, No 1, 1967, pp 8-12, 14.
JPRS 43885

Methods of Calculating the Balance Between Money and Merchandises, by Phung Xuan Mai, 5 pp.
VIETNAMESE, per, Thong Ke, No 1, 1967, pp 25-26.
JPRS 43885

Political

Bulgarian Review of the Political Crisis in China, by L. Sergeev, 7 pp.
BULGARIAN, per, Voennan Agitator, Vol 20, No. 22, Sofia, Nov 67, pp. 48-58.
JPRS 44,178

Attacks on Chou En-lai in Canton Are Denounced, 5 pp.
CHINESE, np, Chu-ying Tung-fang-hung, No 11, 13 Sept 1967, p 2.
JPRS 43622

Pao-Wei Yen-an (Protection of Yen-an) -- A Live Specimen of Use of Fiction against the Party, by Wen Hung-chun, 14 pp.
CHINESE, np, Jen-min Jih-pao, 12 Nov 1967, p 6.
JPRS 43552

One Hundred Examples of Destroying the Old and Establishing the New, 11 pp.
CHINESE, monograph, P'o-chiu Li-hsin I-pai Li, 1 Sept 1966, pp 1-8.
JPRS 43622

Jean Bertolino Discusses His Visit to North Vietnam, by Jean Bertolino, 6 pp.
FRENCH, per, Croissance des Jeunes Nations, No 71, Nov 1967, pp 4-9.
JPRS 43577

Opposition and Subversion from Ethnic Minorities in Thailand, by Pierre Fistic, 11 pp.
FRENCH, per, Politique Strangers, Vol XXXII, No 3, 1967, pp 295-323.
JPRS 43902

First Anniversary of the Party Delegation Conference, 15 pp.
KOREAN, monthly organ, Kulloja, No. 9, P'yongyang, 30 Sept 67, pp. 2-10.
JPRS 44,010

Early Period of the Anti-Japanese Armed Struggle, 16 pp.
KOREAN, month organ, Kulloja, No. 9, P'yongyang, 30 Sept 67, pp. 11-19.
JPRS 44,010

Execution of Kim Il-Song's On-Spot Instruction, by Kim Chong-song, 15 pp.
KOREAN, monthly organ, Kulloja, No. 9, P'yongyang, 30 Sept 67, pp. 20-27.
JPRS 44,010

The Strengthening of the South Korean Revolutionary Force, by Yi Il, 13 pp.
KOREAN, monthly organ, Kulloja, No. 9, P'yongyang, 30 Sept. 67, pp. 44-50.
JPRS 44,010

Struggle Against American Imperialism in Asia, Africa and Latin America, by Yu Si-ho, 12 pp.
KOREAN, monthly organ, Kulloja, No. 9, P'yongyang, 30 Sept 67, pp. 51-57.
JPRS 44,010

Japanese Militarism and American Imperialism in Asian Aggression, by Hyon Chin-ch'ol, 13 pp.
KOREAN, monthly organ, Kulloja, No. 9, P'yongyang, 30 Sept 67, pp. 58-64.
JPRS 44,010

Let us Finish the Threshing, Settle the Annual Accounts, and make Proper Distribution, 5 pp.
KOREAN, np, Minju Choson, 1 Nov 1967, p 1.
JPRS 43963

The Great October Banner, 7 pp.
KOREAN, np, Minju Choson, P'yongyang, 7 Nov 67, p. 1.
JPRS 44,041

Let us more Thoroughly Follow the Tasean Work System, 5 pp.
KOREAN, np, Minju Choson, 9 Nov 1967, p 1.
JPRS 43963

Democratic Election System of Our Nation, by Ko Yong-tok, 6 pp.
KOREAN, np, Minju Choson, 9 Nov 1967, p 2.
JPRS 43963

Let Us Strengthen Our Program of Indoctrinating the Youth with Socialist Patriotism, 8 pp.
KOREAN, np, Nodong Ch'ongnyon, 1 Nov 1967, p. 1.
JPRS 43691

Labor Youth Leagues to Manage Cooperative Farms, by Chon Myong-bok, 8 pp.
KOREAN, daily, Nodong Ch'ongnyon, P'yongyang, 10 Dec 67 p. 2.
JPRS 44,175

Importance of the People's Regime Stressed, by Kim Ki-yong, 15 pp.
KOREAN, np, Nodong Sinmun, 21 Oct 1967, pp 4-5.
JPRS 43542

Socialist System Lauded, by Kang Tok-so, 14 pp.
KOREAN, np, Nodong Sinmun, 10 Nov 1967, pp 2-3.
JPRS 43887

Actively Fight American Imperialism, 14 pp.
KOREAN, np, Nodong Sinmun, 16 Nov 1967, p 3.
JPRS 43963

Cuban Scientists Denounce US "War Crimes" in Vietnam, by Gregorio Hernandez, 6 pp.
SPANISH, review, Bohemia, Havana, Vol 59, 29 Dec 67, pp. 4-13.
JPRS 44,138

The Vietnamese Miracle, by Jesus Marti, 5 pp.
SPANISH, per, Verde Olivo, Havana, 29 Oct 67, pp. 27-30.
JPRS 43,805

Swedish Reporter Describes Bombing in North Vietnam, by Sven Oate, 9 pp.
SWEDISH, per, Dagens Nyheter, Stockholm, 23 Nov 67, p. 12, 29 Nov 67, p. 44.
JPRS 43,805

Let Us Firmly Maintain Our Pledge of Independence, 7 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 1-6.
JPRS 43686

Text of Political Program Adopted by NFLSV, 20 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 9-22.
JPRS 43686

The Banner Uniting All the People for the Anti-U.S. National Salvation Struggle, by Dang Tran Thi, 6 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 23-28.
JPRS 43686

Far East
Political (Contd)

Let Us Be Determined to Frustrate All Activities of the U.S. Imperialists and Their Lackeys Aimed at Investigating and Collecting Intelligence Information, by Hoang Ha, 12 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 32-40.
JPRS 43686

Be Determined to Defeat U.S. Imperialists' Psychological Warfare, by Tran Van, 9 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 41-47.
JPRS 43686

Developing the Great Potential of Our Female Labor Force in the Anti-U.S. National Salvation and Socialist Development Task, by Le Chan Phuong, 12 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 48-55 & 89.
JPRS 43686

Fully Understanding the Role of Books and Newspapers, by Nguyen Duc Quy, 8 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 56-62.
JPRS 43686

Leadership and Guidance Improvements in Gia Lam District, by Pham Manh, 5 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 68-72.
JPRS 43686

The U.S. Imperialists Admit the Failure of Their War Against North Vietnam, by Tran Quoc Tu, 5 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 73-77.
JPRS 43686

The Courageous Struggle of the Negroes Is Shattering the United States, by Tran Thanh Xuan, 7 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 78-83.
JPRS 43686

Same Fate As That of the US Aggressors Is Reserved for Thai Reactionary Authorities, by Xuan Hai, 7 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 84-89.
JPRS 43686

Hanoi Determined to Win, by Nguyen Ven Tran, 5 pp.
VIETNAMESE, np, Nhan Dan, 11 Oct 1967, p 2.
JPRS 43384

Far East
Political (Contd)

Revolutionary Banner of South Vietnam, 5 pp.
VIETNAMESE, np, Nhan Dan, 11 Oct 1967, p 3.
JPRS 43384

October Revolution Aid to Science, by Tran Dai Nghia, 9 pp.
VIETNAMESE, daily, Nhan-dan, Hanoi, 26 Oct 67, p. 3.
JPRS 43,845

Vietnamese Women Influenced by the October Revolution, by Nguyen Thi Thap, 6 pp.
VIETNAMESE, newspaper, Nhan Dan, Hanoi, 3 Nov 67, p. 3.
JPRS 44,138

Three Resolutions on Women's Activities in Nam Ha Province, by Nguyen Thi Binh, 5 pp.
VIETNAMESE, per, Nhan Dan, 17 Nov 1967, p 3.
JPRS 43805

Ha Bac is Determined to Fight and to Defeat the U.S. Pirates, by Le Quang Tuan, 5 pp.
VIETNAMESE, newspaper, Nhan Dan, Hanoi, 2 Dec 67, p. 2.
JPRS 44,149

The Militia Movement, by Brig. Gen. Le Hien Mai, 6 pp.
VIETNAMESE, newspaper, Nhan Dan, Hanoi, 8 Dec 67, p. 3.
JPRS 44,138

Good Start to Winter-Spring Campaign in the South, 10 pp.
VIETNAMESE, daily, Nhan-dan, Hanoi, 9 Dec 67, p. 2.
JPRS 44,113

Obduracy: A Major Lesson of the Revolutionary Struggle, by Ha Huy Giap, 14 pp.
VIETNAMESE, daily, Nhan-dan, Hanoi, 9 Dec 67, p.3, and 10 Dec 67, p. 3.
JPRS 44,113

Military

Rocket News, by S. Nozawa, 11 pp.
JAPANESE, per, Rocket News, No 80, pp 15, 16, 17, 18, 19, 20, 21, 22, 23.
DIA LN 452-67

Swedish Reporter Describes Bombing in North Vietnam, by Sven Oste, 9 pp.
SWEDISH, per, Dagens Nyheter, 23 Nov 1967, p 12, 29 Nov 1967, p 44.
JPRS 43805

Far East
Sociological

Korea University -- The Hall of Learning for Korean Youth in Japan, by Cho Kyong-ok, 7 pp.
KOREAN, np, Nodong Sinmun, 13 Dec 1967, p 6.
JPRS 43887

Strengthening the District Echelon and Developing A 'Four Good' District Committee, by Quach Dinh Hao, 8 pp.
VIETNAMESE, per, Hoc Tap, No 9, Sept 1967, pp 63-68.
JPRS 43686

The Role of the Working Class and the Function of the Unions, 5 pp.
VIETNAMESE, newspaper, Nhan Dan, Hanoi, 15 Dec 67, p. 1 and 4.
JPRS 44,149

LATIN AMERICA

Economic

Polish View of Agricultural Problems in Cuba, by Wacław Morawski, 14 pp.
POLISH, per, Wies Wapolewska, No 12, Dec 1967, pp 71-83.
JPRS 43983

Importance of Brazil's Highway BR-232 Discussed, by Eugenio Silva and Luiz Alfredo, 5 pp.
PORTUGUESE, weekly, O Cruzeiro, Vol XXXIX, No. 60, Rio de Janeiro, 18 Nov 67, 90-91.
JPRS 43,836

Santos, The Port Through Which Brazil Breathes. PORTUGUESE, per, A Marinha em Revista, No 198, Jan-Feb 1967, pp 10-17.
DIA LN 9-68

Barros E Cordeiro, Comercio E Navegacao, S. A. PORTUGUESE, per, A Marinha em Revista, No 198, Jan-Feb 1967, p 37.
DIA LN 9-68

Amazonas Increases Its Tourist Activity, by Jose Aparecido, 17 pp.
PORTUGUESE, per, A Marinha em Revista, No 198, Jan-Feb 1967, pp 51-52.
DIA LN 9-68

Latin America
Economic (Contd)

Proposed Law on Tax Relief for Fishing Industry of Peru.
PORTUGUESE, per, Prensa, Jul 1967, pp 32-34.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Project for the Boa Esperanza Lock Has Been Concluded, by A. H. Furtado, 4 pp.
PORTUGUESE, per, Pontos & Navios, Apr 1967, pp 59-60.
DIA LN 21-68

New US Trade Policy Believed Harmful to Venezuela, by Eloy J. Quintaro, 10 pp.
SPANISH, per, Elite, 9 Dec 1967, pp 35-37 and 80.
JPRS 43983

Important Task of Building Stressed, by Hugo Viver, 5 pp.
SPANISH, newspaper, Granma, Havana, 23 Nov 67, p. 2.
JPRS 43,836

Electricity Enterprise Starts Deferred Milling System, by Susana Lee, 5 pp.
SPANISH, np, Juventud Rebelde, 3 Nov 1967, p 2.
JPRS 43758

Private Enterprise: A Firm Foundation for Chile's Future, by Sergio Silva Bascunan, 16 pp.
SPANISH, per, El Mercurio, 2 Dec 1967, p 48.
JPRS 43950

Exploitation of Latin American Natural Resources Discussed, by Josue de Castro, 8 pp.
SPANISH, per, Punto Final, 5 Dec 1967, pp 24-27.
JPRS 43950

Chilean Analyzes Cuban Trade, 8 pp.
SPANISH, per, Punto Final, Santiago, 19 Dec 67, pp. 24-27.
JPRS 44,162

The Cuban Farm Plan for 1968, 5 pp.
SPANISH, newspaper, Sierra Maestra, Santiago de Cuba, 9 Nov 67, p. 1.
JPRS 43,836

Analysis of the Economic Crisis, by Vivian Trias, 12 pp.
SPANISH, per, El Sol, No 373, 10 Nov 1967, pp 8-11.
JPRS 43758

Prelate Discusses Latin American Situation, by
Luís Spagnoli, 5 pp.
ITALIAN, per, L'Espresso, 3 Dec 1967, pp 12-13.
JPRS 43758

Brazil Opposed Portugal on Colonial Issue, by
Theophilo de Andrade, 5 pp.
PORTUGUESE, per, O Cruzeiro, 9 Dec 1967, p 79.
JPRS 43983

Joao Calmon Civic Campaign Described, by Afranio
Brasil Soares, 11 pp.
PORTUGUESE, per, O Cruzeiro, 23 Dec 1967, pp 156-
162.
JPRS 43950

Statement of Solidarity Within the Brazilian
Hierarchy, 9 pp.
PORTUGUESE, newspaper, O Estado de Sao Paulo,
Sao Paulo, 1 Dec 67, p.4.
JPRS 43,836

Brazilian Church and Government Officials Confer,
by Ruy Castro, 6 pp.
PORTUGUESE, per, Manchete, 16 Dec 1967, pp 26-
29.
JPRS 43983

Failure of Latin American Revolutions Analysed,
by Miguel Maya, 7 pp.
SPANISH, per, Bohemia, Vol 58, No 245, 10 Dec
1967, pp 28-32, 73.
JPRS 43983

Guevara Compared With Bolivar, by Juan
Sanchez, 5 pp.
SPANISH, newspaper, Bohemia, Havana, 22 Dec
67, pp. 10-11.
JPRS 44,162

Comment on Disintegration of National Front
System, by Paulo E. Forero, 5 pp.
SPANISH, newspaper, Encuentro Liberal, Bogota,
18 Nov 67, pp. 10-11.
JPRS 43,836

Cuban Communists Attend Uruguayan Youth Meeting,
5 pp.
SPANISH, per, Epoca, Montevideo, 11 Dec 67,
p. 8, and 12 Dec 67, p. 2.
JPRS 44,038

Analysis of Erci's First Three Years in Power,
by Alejandro Cabrera Ferrada, 19 pp.
SPANISH, per, Exilla, Vol 33, No 1691, 1 Nov
1967, pp 8-11.
JPRS 43681

Venezuelan CP View on Armed Struggle Unchanged,
14 pp.
SPANISH, per, Este y Oeste, Nov 1967, pp 26-32.
JPRS 43983

FALN Absence from LASO Conference Explained,
5 pp.
SPANISH, per, Este y Oeste, Caracas, Dec 67,
pp. 27 and 28.
JPRS 44,038

University Student Elections Planned, 7 pp.
SPANISH, newspaper, Juventud Rebelde, Havana,
21 Nov 67, p. 5.
JPRS 43,836

Crombet Discusses Youth and Communist Society,
by Jaime Crombet, 13 pp.
SPANISH, daily, Juventud Rebelde, Havana,
24 Nov 67, pp. 2 and 3.
JPRS 43,836

The Long March to Liberation in Latin America,
by Carlos Quijano, 6 pp.
SPANISH, per, Marcha, 3 Nov 1967, pp 7-8.
JPRS 43681

Military Accused of Controlling Government, by
Carlos Nunez, 5 pp.
SPANISH, per, Marcha, 24 Nov 1967, pp 21 and 22.
JPRS 43681

Catholic Professor Brands University Reform
Movement as Leftist, by Prof. Rodrigo
Restrepo Rendon, 12 pp.
SPANISH, newspaper, El Mercurio, Santiago,
22 Nov 67, p. 30.
JPRS 43,836

Results of Latin American Catholic Universities
Organisation Congress, 9 pp.
SPANISH, pp, El Mercurio, 23 Nov 1967, pp 26-
27.
JPRS 43758

Secret Contacts Between Kennedy and Che Guevara,
by Gregorio Selser, 6 pp.
SPANISH, per, Monte, 19 Nov 1967, pp 36-37.
JPRS 43681

Latin America
Political (Contd)

Leftist Chilean View of the Peace Corps, by Mario Mancía, 7 pp.
SPANISH, per, PLAN (Política Latino-Americana Nueva), Vol 2, No 18, Oct 1967, p 20.
JPRS 43681

Manifesto of New Camilo Torres Movement Issued, 5 pp.
SPANISH, Newspaper, El Popular, Montevideo, 28 Nov 67, p. 4.
JPRS 44,038

Uruguayan Delegation Member Reports on USSR Trip, 12 pp.
SPANISH, np, El Popular, 4 and 5 Dec 1967, p 2.
JPRS 43950

Election Results Require Change in Government Policy, 5 pp.
SPANISH, np, La Prensa, 14 Nov 1967, p 9.
JPRS 43681

Saad Speech on Latin American Revolutionary Struggle, by Pedro Saad, 5 pp.
SPANISH, np, El Pueblo, 9 Dec 1967, pp 5-6.
JPRS 43950

Argentine Anti-Debray Pamphlet Attacked, by Rodolfo Puiggrós, 7 pp.
SPANISH, per, Punto Final, No 40, 24 Oct 1967, pp 7-9.
JPRS 43361

Chilean Discusses Theory of Peaceful Coexistence, by B. M., 5 pp.
SPANISH, per, Punto Final, 5 Dec 1967, pp 36-37.
JPRS 43950

An Interview with the Minister of Labor, 5 pp.
SPANISH, per, 7 Dias, 1 Dec 1967, p 6.
JPRS 43950

Cademartori Addresses Chilean Communist Party Meeting, by Jose Cademartori, 19 pp.
SPANISH, np, El Siglo, 9 Oct 1967, pp 3-5.
JPRS 43361

The New US Ambassador to Chile, by Pedro Pablo Jaraquemada, 6 pp.
SPANISH, np, El Siglo, 26 Nov 1967, pp 4, 24.
JPRS 43983

Latin America
Political (Contd)

Caicedo Exchanges Views With University Students, by Dr. A.M. Caicedo, 11 pp.
SPANISH, np, El Siglo, Bogota, 26 Dec 67, p. 3.
JPRS 44,162

Popular Socialist Deputies Discuss Party Program, by R. Pina, 16 pp.
SPANISH, per, Sucesos Para Todos, Mexico City, 30 Dec 67, pp. 16-25.
JPRS 44,162

Central Committee of Peruvian CP Holds XXV Plenum, 12 pp.
SPANISH, per, Unidad, 9 Nov 1967, p 4; 16 Nov 1967, p 5.
JPRS 43681

Socialist Future Seen by Communist Leader, by Joaquin Moreno Díaz, 7 pp.
SPANISH, per, Voz Proletaria, Vol 5, No 202, 16 Nov 1967, pp 9, 12.
JPRS 43681

Vieira Reports on USSR and East European Trip, by Gilberto Vieira, 7 pp.
SPANISH, newspaper, Voz Proletaria, Bogota, 21 Dec 67, pp. 12-13.
JPRS 44,038

Military

Chilean Report on US Army Ranger Training in Bolivia, by Renato Sandri, 7 pp.
ITALIAN, per, L'Unità, 26 Nov 1967, p 7.
JPRS 43758

Geographic

Snapp and Amazonia.
PORTUGUESE, per, A Marinha em Revista, No 198, Jan-Feb 1967, p 39.
DIA LIA 9-68

North Channel Of The Amazon River, by E. Rodriguez, 37 pp.
PORTUGUESE, per, Revista Marinha Brasileira, Jan 1967, pp 11-13; 3-63.
DIA LIA 181-68

Economic

The Socialist Transformation of a Cuban Family,
6 pp.
SPANISH, per, Bohemia, 19 Dec 67, pp. 60,
61, 61, 63 and 65.
JPRS 44,162

World Railroad, 11 pp.
SPANISH, per, Zeleznizy, 1967, 1 p.
DIA 1 073-68

Cuban Education Yesterday and Today, by
Oscar F. Regoa, 6 pp.
SPANISH, per, Bohemia, 29 Dec 67, pp. 24-27
and 29.
JPRS 44,162

Political

Health Network in Santiago de Cuba, by Carmen
R. Alfonso, 6 pp.
SPANISH, newspaper, Juventud Rebelde, Havana,
22 Nov 67, p. 5.
JPRS 43,836

Danish Communist Remarks on October Revolution,
5 pp.
DANISH, monthly, Kommunistisk Orientering,
No. 15, Copenhagen, 3 Nov 67, pp. 1-4.
JPRS 43,847

Social Justice Work of the Church in Brazil
Discussed, by Gregorio Selser, 5 pp.
SPANISH, per, Marcha, 17 Nov 1967, p 16.
JPRS 43681

French Communist Version of Present-Day
Internationalism, by Victor Joannes, 5 pp.
FRENCH, monthly publ., Cahiers de l'Institut
Maurice Thorez, Paris, Vol. 2, No. 7/8,
Nov-Dec 67, pp. 64-67.
JPRS 43,940

Brazilian Priests Advocate Social and Economic
Reforms, 15 pp.
SPANISH, per, Marcha, 24 Nov 1967, pp 16-19.
JPRS 43758

Grippa's Power Believed on the Decline, by
Claude Franchimont, 6 pp.
FRENCH, newspaper, La Gauche, No. 47,
Brussels, 16 Dec 67, p. 2.
JPRS 44,178

Cubans Convene Cultural Congress, by Carlos
M. Gutierrez, 7 pp.
SPANISH, per, Marcha, 12 Jan 68, pp. 19-
24, Montevideo.
JPRS 44,162

Communist Defends Israeli Stand in Conflict,
by S. Tsirulnikov, 7 pp.
HEBREW, daily organ, Kol Ha'am, Tel Aviv,
22 Dec 67, pp. 2 and 5.
JPRS 44,178

Discussion on Coming Havana Cultural Congress,
9 pp.
SPANISH, newspaper, El Popular, Montevideo,
22 Dec 67, pp. 14-15.
JPRS 44,038

Israeli Urges Moral Renewal in World
Communism, by Yehuda Shayovits, 5 pp.
HEBREW, daily organ, Kol Ha'am, Tel Aviv,
22 Dec 67, pp. 3 and 5.
JPRS 44,178

Repercussions of Population Explosion in Mexico
on the Children, by Andres G. de Wit Greene,
SPANISH, per, Revista Med, 1222 T E, Sep-Oct 1966,
pp 41-56.
*Dept of Navy/NMS 1235

Israeli Extols USSR Advancement of Marxism-Lenin-
ism, by Wolf Ehrlich, 8 pp.
HEBREW, newspaper, RAKAM, Zo Haderekh,
Tel Aviv, 15 Nov 67, p. 4, and 12 Nov 67, p. 4.
JPRS 43,847

Birth of Socialist Cuba Recalled, by Martin
Ruiz, 5 pp.
SPANISH, per, El Siglo, Santiago de Cuba,
31 Dec 67, pp. 16-17.
JPRS 44,162

Israeli Communist Says USSR Protector of
Peace, by Ruth Lubitch, 6 pp.
HEBREW, weekly, RAKAM, Tel Aviv, 15 Nov 67,
pp. 2,6.
JPRS 43,847

Aeronautics

Stabilisation System of Time-of-Flight Spectrometer of Nanosecond Range, by V. G. Lapshin.
RUSSIAN, rpt, JINR-P13-3342, 1967.
*AEC AERE

Boundary Layer Reaction with a Hypersonic Stream in a Conical Nose, by V. P. Agafonov.
RUSSIAN, per, AN SSSR, Izvestiya Mekhanika, No 5, 1965, pp 154-157. P10036367
FTD-HT-66-464

On the Maximum Probability that a Flight Vehicle Will Reach An Assigned Region, by Yu. V. Kozhevnikov.
RUSSIAN, per, AN SSSR, Izv. Mekh. Tverdogo Tela, No 2, 1967, pp 81-87.
Dept of Navy/ APL/JHU T-2076

Experimental Investigation of a Hypersonic Flow Past Plane Delta Wings in the Range of Angles of Attack from 0 to 70° at M = 5, by V. A. Bashkin.
RUSSIAN, per, AN SSSR, Izv. Lekh. Zhidkosti i Gaza, No 3, 1967, pp 102-108.
*Dept of Navy/ APL/JHU J-1102

Oscillations of Cylindrical Shell During High Frequency Pulsations of Internal Pressure, by Sh. U. Galiyev.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsonnaya Tekhnika, 1967, No 2, pp 30-37.
*FTD-MT-24-14-68

Gas Dynamic Experimental Investigation of the Interaction Zone During Injection of a Secondary Jet into the Main Supersonic Flow, by B. G. Vinogradov.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsonnaya Tekhnika, No 2, 1967, pp 81-86.
*FTD-MT-24-14-68

Infrared and Light Wave Aircraft Homing and Guidance Apparatus, by L. P. Lazarev.
RUSSIAN, per, Mashinostroyeniye, 1966, pp 2-4, 178-193, 278-388.
*FTD-MT-24-2-68

Markov Chains and the Probability of Adverse Weather on Flight Paths, by A. S. Marchenko.
RUSSIAN, per, Meteorologiya i Gidrologiya, No 7, 1967, pp 56-68.
Dept of Navy/ APL/JHU T-2071

How We Are Improving Pre-Flight Preparation, by S. G. Daniko, 4 pp.
RUSSIAN, per, Morsko, Sbornik, 1965, pp 51-54.
ACSI J-3751
ID 2204054467

Aircraft Navigation, by S. F. Sedchin, 528 pp.
RUSSIAN bk. Samolatovazheniye, 1966.
*NASA TT F-11,463

Noise Reduction in Areas of Tu-124 Aircraft Take-off, by B. N. Melnikov.
RUSSIAN, bk. Samoletostroyeniye i Tekhnika Vozdushnogo Flota, 1966, pp 157-161.
*NASA TT F-11,557

Impulse, Critical and Gliding Regimes in Problems of Flight Dynamics, by A. A. Bolonkin, 28 pp.
RUSSIAN, per, Slozhnyye Sistemy Upravleniya, 1965, pp 68-90.
ACSI J-2712
ID 2204025967

Distribution of Pressure on Surface of Ellipsoids, by A. I. Shvets, 8 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik. Seriya I. Matematika, Mekhanika, No 4, 1964, pp 42-48. P100371867-V
FTD-MT-64-560

The Theory of the Supersonic Bang, by J. P. Guiraud, 27 pp.
FRENCH, rpt. Office Natl. d'Etudes et de Recherches Aeronautiques, TP 521, Oct 1967.
*NASA TT F-11,474

Design of the Circulat Platform for the Peripheral Jet Air Cushion Vehicle, by A. F. Accordo.
ITALIAN, per, L'Aerotecnica, Vol 47, April 1967, pp 47-59.
*NASA IT F-11,536

Influence of Noise on Certain Functions of the Eye, by Z. Panjan, 11 pp.
CROATIAN, per, Volgoznanitstaki Pregled, Vol 20, No 1-2, 1963, pp 19-20.
ACSI J-3752
ID 2204054567

Agriculture and Climate Handbook for the
Province of Moscow, 140 pp.
RUSSIAN, Handbk, Gidrometeorologicheskoye
Izdatel'stvo, 1954.
DIA LN 275-67

A Study of Host Parasite Relationships of Certain
Agricultural Crops Affected by Pratylenchosis,
by E. Krall & U. Riispere.
RUSSIAN, per, Izvestiy Akademii nauk Estonskoi
SSR Seriya biologicheskaya, Vol 10, No 2, 1966,
pp 195-203.
HLL Ref: RTS 3934

Land Cultivation Potential of Chlorella, by T.
Babaev.
RUSSIAN, per, Rybnoe Khozyaistvo, Vol 43, No 1,
1967, p 23.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Law on Veterinary Work, 7 pp.
BULGARIAN, per, Durzhaven Vestnik, No. 96,
Sofia, 8 Dec 67, pp. 1-3.
JPRS 43,846

Tendencies in the Development of Cotton Pro-
duction in Bulgaria, by P. Konishev and
V. Topalov, 14 pp.
BULGARIAN, per, Seiskostopanska Nauka, Sofia,
No. 3, July-Sept, 1967, pp. 9-18.
JPRS 44,034

Problems in Specialization, Concentration, and
Mechanization of Vegetable Production(1),
by Khristo Daskalov, 22 pp.
BULGARIAN, per, Seiskostopanska Nauka, Sofia,
No. 3, July-Sept. 67, pp. 19-36.
JPRS 44,034

Crossbreeding with Foreign Livestock Breeds,
by Bohumil Suchanek, 5 pp.
CZECH, np, Socialistické Zemedelství,
No. 41, 13 Oct 1967, p 6.
JPRS 43572

Crop and Weather Report, October 1967, by
Dr. D. Krumbiegel, 5 pp.
GERMAN, per, Feldwirtschaft, No 12, Dec 1967,
pp 623-624.
JPRS 43784

Status of Artificial Insemination of Cattle
in the GDR, by K. Pils, 10 pp.
GERMAN, per, Monatshefte fuer Veterinaermedizin,
Vol 22, No 17, Sept 1967, pp 681-684.
JPRS 43405

Fruit Plantations. Prospects and Problems,
by B. Shtil, 6 pp.
HEBREW, daily, Lamerhav, Tel-Aviv, 13 Dec 67,
p. 4.
JPRS 44,030

Small Farmsteads and Their Integration, by
Tomasz Kucner, 15 pp.
POLISH, per, Nowe Drogi, No. 12, Warsaw,
Dec 67, pp. 54-66.
JPRS 43,846

Grain Feed Problem in Farm Cooperatives, by
Antoni Gemel, 11 pp.
POLISH, per, Nowe Rolnictwo, No 19, 1-15 Oct 1967,
pp 19-21.
JPRS 43753

The Present View of the Forest Vegetation -
(Excerpts from Book), 23 pp.
HUMANIAN, bk, Cercetari Privind Refacevea
Padurilor Degradate Din Podisul Central
Moldouenesc, 1960, pp 50-75.
DIA LN 381-67

Contemporary Agriculture.
SERBO-CROATIAN, bk, Savremena Poljoprivreda,
Vol 14, No 2, 1966.
CSFTI TT 67-58007/2

Contemporary Agriculture.
SERBO-CROATIAN, bk, Savremena Poljoprivreda,
Vol 14, No 3, 1966.
CSFTI TT 67-58007/3

Contemporary Agriculture.
SERBO-CROATIAN, bk, Savremena Poljoprivreda,
Vol 14, No 4, 1966.
CSFTI TT 67-58007/4

Contemporary Agriculture.
SERBO-CROATIAN, bk, Savremena Poljoprivreda,
Vol 14, No 5, 1966.
CSFTI TT 67-58007/5

Contemporary Agriculture.
SERBO-CROATIAN, bk, Savremena Poljoprivreda,
Vol 14, No 6, 1966.
CSFTI TT 67-58007/6

Improve the Quality of Experimental Farms to
Serve Production, by Bui Huy Dap, 8 pp.
VIETNAMESE, per, Khoa Hoc Ky Thuat Nong
Nghiep, No. 67, Hanoi, July 67, pp. 243-247.
JPRS 43,828

Improvement of Eroded Soil at Ha Bac, by
 Nguyen Thanh Quat, 11 p.
 VIETNAMESE, per, Khoa Hoc Ky Thuat Nong
Nghiep, No. 67, Hanoi, July 67, pp. 247-252.
 JPRS 43,828

On Buffalo Diseases in Vietnam, by Trinh Van
 Thinh, 10 pp.
 VIETNAMESE, per, Khoa Hoc Ky Thuat Nong Nghiep,
 No. 67, Hanoi, July 67, pp. 262-267.
 JPRS 43,828

Guidance on Animal Husbandry Techniques for
 Mountain Areas, 9 pp.
 VIETNAMESE, per, Khoa Hoc Ky Thuat Nong
Nghiep, No. 8, Aug 67, pp. 302-306.
 JPRS 44,138

Discussion on Livestock Raising, 17 pp.
 VIETNAMESE, np, Nhan Dan, Hanoi, 15-18 Nov 67.
 JPRS 43,805

Astronomy & Astrophysics

An Automatic Control System for a Stellar
 Interferometer, by Yu. A. Sabinin & P. V.
 Nikolayev, 22 pp.
 RUSSIAN, per, AN SSSR, Institut Elektromekhaniki,
Sbornik Rabot Po Voprosam Elektromekhaniki, No 9,
 1963, pp 161-175. P100366167
 FTD-HT-66-366

On the Possibility of Determining the Absolute
 Elevations of the Points of Lunar Surface from
 the Observations on the Earth, by A. A.
 Gurshteyn.
 RUSSIAN, per, Astronomicheskiy Zhurnal, Vol 44,
 No 3, 1967, pp 672-674.
 AGIC TC-1318

Effect of Plasma Density on the Results of
 Spectroscopic Determinations of Electron Temper-
 atures, by V. L. Vdovin.
 RUSSIAN, per, Atomnaya Energiya, Vol 20, No 2,
 1966, pp 148-149.
 *ACSI J-4151
 ID 2204001468

Application of the Delaunay Method to the Arti-
 ficial Satellites on the Moon, by E. N. Lemekhova.
 RUSSIAN, per, Byulletin' Inst Teoreticheskoy
Astronomiy, Vol 8, No 7(100), 1962, pp 513-530.
 Sci Tech Info Facility
 ST-CN-10663

The Frequency of Occurrence of Auroras in
 Murmansk in the Years of Maximum and Minimum
 Solar Activity, by L. A. Mal'ko.
 RUSSIAN, per, Geograf i aeronom, Vol 7, 1967,
 pp 78-82.
 ALL Ref: 5828.4F (7034)

Results of an Investigation of the Polar Iono-
 sphere by Radio Signals from Explorer-22, by
 E. E. Mityakova & N. A. Mityakov.
 RUSSIAN, per, VUZ, Izv, Radiofizika, Vol 10,
 No 8, 1967, pp 1070-1076.
 Dept of Navy/ APL/JHU T-2085

Passive Satellite Stabilization by the Geomagnetic
 Field, by A. A. Khentov.
 RUSSIAN, per, Kosmicheskoe Issledovaniya, Vol 5,
 No 4, 1967, pp 540-553.
 Dept of Navy/ APL/JHU T-2080

The Effect of the Earth's Magnetic and Gravitational
 Fields on the Oscillations of a Satellite
 Around its Center of Mass, by A. A. Khentov.
 RUSSIAN, per, Kosmicheskoe Issledovaniya, Vol 5,
 No 4, 1967, pp 554-572.
 Dept of Navy/ APL/JHU T-2081

Observations of Scattered L_α-Emission in the
 Vicinity of the Earth and in the Interplanetary
 Medium, by V. G. Kurt.
 RUSSIAN, per, Kosmicheskoye Issledovaniya, Vol 5,
 No 6, 1967, pp 911-920.
 Sci Tech Info Facility
 ST-0A-SP-10669

An Experiment in Forecasting the Secular Com-
 ponent of Solar Activity, by I. V. Maksimov.
 RUSSIAN, per, Problemy arkt. i antarkt., Vol 12,
 1963, pp 21-32.
 ALL Ref: 5828.4F (7023)

Transfer of Radiation in a Spectral Line,
 by V. V. Ivanov.
 RUSSIAN, per, Uch Zap Leningrad Gos Univ Ser
Mat Nauk, No 39, 1965, pp 44-65.
 AEC-CDN-Trans-10

Application of Methods of Analytic Dynamics in
 the Theory of Optimal Transfers, by V. S.
 Novoselov, 20 pp.
 RUSSIAN, per, Universitet. Vestnik, Seriya
Matematiki, Mekhaniki i Astronomii, No 13, 1964.
 P100371767-V
 FTD-HT-65-02

Scientific
Astronomy & Astrophysics (Contd)

A Point Source in a Semi-Infinite Medium Bounded by a Reflective Surface, by A. K. Kolesov & D. I. Nagirner, 10 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

The Question about Sources of Opacity of Atmospheres of Stars of Late Spectral Classes, by V. G. Buslavskiy, 14 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

On the Relation Between Variations in Gravitational Potential and Latitude of a Place, by George Stanila.
CZECH, per, Studii si Cercetari de Astronomie, Vol 9, No 1, 1964, pp 29-31.
ACTIC TC-1256

The Scintillation of Stars, by H. Elsaesser.
GERMAN, per, Naturwissenschaften, Vol 47, 1960, pp 6-10.
*AEC

Atmospheric Sciences

Handbook of Short-Range Weather Forecasting.
RUSSIAN, per, GUG'S tsentr. inst. prog., Vol 1, 1964.
NLL Ref: 9022.551 (441 N)

Atmospheric Ozone, by A. Kh. Khrgian & G. I. Kuznetsov.
RUSSIAN, bk, Issledovanie atmosfernogo ozona, Sec II, No 8, 1965.
CFSTI TT 67-51379

Results of Calculations of Radiowave Refraction in a Horizontally Inhomogeneous Troposphere and in the Ionosphere, by A. N. Kazantsev.
RUSSIAN, per, Konicheskie Issledovaniya, Vol 5, No 5, 1967, pp 766-771.
*Dept of Navy/ APL/JHU J-1099

On the Search for Cosmic and Meteor Dust in the Earth's Atmosphere, by V. A. Vasil'ev.
RUSSIAN, per, Meteoritika, Vol 27, 1966, pp 139-143.
NLL Ref: 5828.4F (7035)

Scientific
Atmospheric Sciences (Contd)

Climatological Normals and Their Inter-Relationship with Different Natural Factors, by F. F. Davitaya.
RUSSIAN, per, Meteorologiya i gidrologiya, Vol 3, 1966, pp 3-9.
NLL Ref: 5828.4F (7016)

Some Results and Prospects of Scientific Research in the Institutes of the Hydrometeorological Service in the USSR, by E. K. Fedorov.
RUSSIAN, per, Meteorologiya i gidrologiya, Vol 6, 1966, pp 3-11.
NLL Ref: 5828.4F (12237)

Some Aspects of Study of Noctilecent Clouds, by Ch. I. Willmann.
RUSSIAN, bk, Meteorologicheskiye Issled, Serebristyye Oblaka, Sec II, No 12, 1966, pp 14-25.
*NASA TT F-11,517

On the Conditions of Visibility of Noctilucent Clouds, by V. G. Feskov.
RUSSIAN, bk, Meteorologicheskiye Issled, Serebristyye Oblaka, Sec II, No 12, 1966, pp 26-29.
*NASA TT F-11,518

On the Choice of Conditions of Observations of Noctilucent Clouds From the Earth's Surface and Spaceships, by G. V. Rosenberg.
RUSSIAN, bk, Meteorologicheskiye Issled Serebristyye Oblaka, Sec II, No 12, 1966, pp 30-32.
*NASA TT F-11,519

Determination of Parameters of Noctilucent Clouds in 1964, by M. I. Burov.
RUSSIAN, bk, Meteorologicheskiye Issled Serebristyye Oblaka, Ser II, No 12, 1966, pp 33-46.
*NASA TT F-11,520

Determination of Space Coordinates of Noctilucent Clouds, by M. A. Dirikis.
RUSSIAN, bk, Meteorologicheskiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 47-51.
*NASA TT F-11,521

Determination of the Projection of Noctilucent Clouds on the Earth's Surface, by M. A. Dirikis.
RUSSIAN, bk, Meteorologicheskiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 52-56.
*NASA TT F-11,522

Morphological Studies of Noctilucent Clouds, by N. I. Grishin.
RUSSIAN, bk, Meteorologicheskiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 92-100.
*NASA TT F-11,523

On Meteorological Conditions of the Accurrence of Noctilucent Clouds, by Yu. V. Kurilova.
RUSSIAN, bk, Meteorologicheskkiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 101-105.
*NASA TT F-11,524

On the Study of Meteorological and Inospheric Conditions of the Occurrence of Noctilucent Clouds in Siberia, by N. P. Fast.
RUSSIAN, bk, Meteorologicheskkiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 106-110.
*NASA TT F-11,525

Observations of Noctilucent Clouds in Novosibirsk Department of VAGO in 1964, by S. S. Voinov.
RUSSIAN, bk, Meteorologicheskkiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 111-112.
*NASA TT F-11,526

Observations of Noctilucent Clouds in Gorky, by E. G. Demidovich.
RUSSIAN, bk, Meteorologicheskkiye Issled, Serebristyye Oblaka, Ser II, No 12, 1966, pp 113-114.
*NASA TT F-11,527

Fundamentals of General Meteorology -- Physics of the Atmosphere, by L. T. Matveev.
RUSSIAN, bk, Osnovy obshchei meteorologii Fizika atmosfery, 1965.
CFSTI TT 67-51380

The Solar Wind and Polar Aurorae, by V. I. Krasovskiy, 14 pp.
RUSSIAN, per, Priroda, No 5, 1966, pp 14-20.
P100363367
FTD-HT-23-795-67

Tropical Cyclones of the Pacific Ocean, by V. V. Lukyanov.
RUSSIAN, per, Tr AN SSSR Inst okeanol, Vol 72, 1963, pp 50-72.
NLL Ref: 5828.4F (7032)

An Attempt at Making a Long Period Forecast of the Basic Forms of Atmospheric Circulation in the Northern Hemisphere by the Harmonic-Component Method, by I. V. Maksimov & M. P. Smirnov.
RUSSIAN, per, Tr Arkt i antarkt, n-1 inst, Vol 262, 1965, pp 231-256.
NLL Ref: 5828.4F (7033)

An Experiment in the Application of Frequency Analysis for Studying the Internal Structure of Natural Climatic Series, by N. E. Vol'cinger.
RUSSIAN, per, Tr Arkt i antarkt, n-1 inst, Vol 277, 1966, pp 147-157.
NLL Ref: 5828.4F (7036)

The Calculation of Inertia of an Instrument During Meteorological Measurements, by R. L. Kagan, 20 pp.
RUSSIAN, per, Glavnaya Geofizicheskaya Observatoriya. Trudy, No 174, 1965, pp 21-34. P100347367
FTD-MT-66-82

Spectral Absorption of Longwave Radiation in the Atmosphere, by A. P. Yurgenson.
RUSSIAN, per, Trudy Leningrad, Arkticheskiy i Antarkicheskiy Nauchno-Issledovatel'skiy Institut, No 277, 1966, pp 11-19.
*FTD-MT-24-15-68

Scattering and Attenuation of Centimeter Waves by Water Drops, by K. S. Shifin.
RUSSIAN, per, Trudy Leningrad, Glavnaya geofizicheskaya observatoriya, No 203, 1967, pp 109-122.
*FTD-HT-23-49-68

On the Solution of the Non-Stationary Single Dimensional Equation of the Exchange of Ozone, by Yu. A. Safrin.
RUSSIAN, per, Tr Tsentr aerol observ, Vol 70, 1966, pp 71-74.
NLL Ref: 5828.4F (7031)

On the Planetary Exchange of Ozone, by Yu. A. Safrin.
RUSSIAN, per, Tr Tsentr aerol observ, Vol 70, 1966, pp 75-83.
NLL Ref: 5828.4F (7030)

On the Problems of the Use of the Scorer Parameter for Forecasting Turbulence on the Lee Side of Mountains, by A. A. Vasil'ev.
RUSSIAN, per, Tr Tsentr inst prog, Vol 158, 1966, pp 90-98.
NLL Ref: 5828.4F (7028)

Quantitative Estimate of Artificial Increase of Precipitation in the Cold Half of the Year in the Ukrainian Steppe, by M. P. Leonov, 9 pp.
RUSSIAN, per, Trudy Ukrainskogo Nauchno-Issledovatel'skogo Gidrometeorologicheskogo Instituta, No 61, 1966, pp 81-85.
JPRS 43549

Scientific
Atmospheric Sciences (Contd)

Principles and Methods for Modifying Convective Clouds Used by the Caucasus Expedition in 1964-1965, by G. K. Sulakvelidze, 28 pp. RUSSIAN, per, Trudy Vysokogornogo Geofizicheskogo Instituta, No 5, 1966, pp 150-168. JPRS 43546

On the Micro-Climatic Conditions of the Large Town Parks and Areas, by E. V. Poltarau. RUSSIAN, per, Vestnik Moskovskogo universiteta, Vol 2, 1966, pp 11-19. ILL Ref: RTS 4072

Hydrometeorology of the Polar Regions, by G. Ya. Vangengeim & A. F. Laktionov. RUSSIAN, bk, Voprosy gidrometeorologii polyarnykh oblastei, Vol 253, 1963. CFSTI TT 66-51146

An Investigation on the prediction of Strong Winds Associated with Cold Fronts in the Yupeh Region (Northern Honan) in Spring, by Zhu Zhong-ji, and Hu Xue-mei. CHINESE, per, Ch'i-Hsiang Hsueh-Pao, (Acta Meteorologica Sinica) Peking, China, Vol 35, No. 2, May 1965, pp 138-147. P1000129-68 AFCRL Emm-66-140

The Relationship Between The Convergence Belt And Thunderstorm Activities During Spring in the Warm Region of Fukien, by Wang De-tsam. CHINESE, per, Ch'i-Hsiang Hsueh-Pao, (Acta Meteorologica Sinica) Peking, China, Vol 35, No. 3, 1965, pp 316-327. P1003680-67 AFCRL Emm 66-86

An Experiment on the Quantitative Description of Fields of Climatological Elements by Means of Orthogonal Functions, by Shi Yong-nian. CHINESE, per, Ch'i-Hsiang Hsueh-Pao, (Acta Meteorologica Sinica), Peking, China, Vol 35, No. 3, 1965, pp 343-351. P1003679-67 AFCRL Emm 66-89

A Radar Analysis of Hailstorms Over the Peking Region in 1964, by Ko Jun-sheng. CHINESE, per, Ch'i-Hsiang Hsueh-Pao, (Acta Meteorologica Sinica) Peking, China, Vol 36, No. 2, June 1966, pp 213-222. P1000128-68 AFCRL Emm-67-161

Scientific
Atmospheric Sciences (Contd)

Cloud Seeding for Snow, by Yeh Chia-tung, 5 pp. CHINESE, per, K'o-hsueh Hua-pao, No 3, Mar 1964, pp 102-103. JPRS 43872

Biography of a Typhoon, by Tung K'o-ch'in, 7 pp. CHINESE, per, K'o-hsueh Ta-chung, No 8, Aug 1964, pp 298-299. JPRS 43872

Proceedings and Personalities in Hungarian Meteorology, 9 pp. HUNGARIAN, per, Idojaras, No 5, Sept-Oct 1967, pp 314-320. JPRS 43562

Behavioral & Social Sciences

Optimal Self-Teaching System, by V. S. Pugachev, 7 pp. RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 175, No 5, 1967, pp 1022-1025. JPRS 43722

On the Quantitative Evaluation of the Terminology of a Vocabulary, by L. G. Kravets, 13 pp. RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya, No 2, 1965, pp 27-29. P100371167 FTD-HT-66-515

Peripheral or Local Reflexes, by M. V. Sergiyevskiy, 220 pp. RUSSIAN, per, Perifericheskiye, Ili Mestnyye, Refleksy, 1964. P100369367-V FTD-HT-66-685

An Examination of Memory in Connection with the Tasks of Engineering Psychology, by P. I. Zinchenko, and V. P. Zinchenko. RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 3-18. P1003273-67-V FTD-HT-66-220

Memory Capacity and Amount of Information, by P. B. Nevel'skiy. RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 19-118. P1003273-67-V FTD-HT-66-220

Investigation of the Operativnoy Pamyati, by G. V. Repkina.
RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 118-165.
P1003273-67-V
FTD-HT-66-220

Some Methods of Information Coding, by N. I. Ryzhkova.
RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 165-175.
P1003273-67-V
FTD-HT-66-220

The Structure of Mnemetic Activity, by V. Ya. Iyaukis.
RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 175-207.
P1003273-67-V
FTD-HT-66-220

Genesis of the Operations of the Mnemetic Effect, by L. M. Zhitnikova.
RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 207-217.
P1003273-67-V
FTD-HT-66-220

Certain Conditions for the Rational Use of Memory During Training, by V. V. Repkin, and G. K. Sereda.
RUSSIAN, per, Psikhologiya Pamyati, Akademii Pedagogicheskikh Nauk RSFSR, Vypusk 3, "Problemy Inzhenernoy Psikhologii", No. 3, 1965, pp 217-222.
P1003273-67-V
FTD-HT-66-220

Development of Pedagogy as a Social Science, by V. M. Khvostov, 5 pp.
RUSSIAN, np, Uchitel'skaya gazeta, 21 Nov 1967, p 1.
JPRS 43936

Improving Teaching Methods Through Scientific Organisation of Labor, by V. Zalivadnyy, 5 pp.
RUSSIAN, np, Uchitel'skaya gazeta, 21 Nov 1967, p 2.
JPRS 43936

Permanent Memory Device, by V. V. Antonov, N. V. Katkova, 2 pp.
RUSSIAN, Patent No 174838 (Appl No 812550/26-24, 4 Jan 1963), 1 pp. P100371967
ED-HT-23-1083-67

A Cylindrical Magnetic Thin-Film Memory Matrix, by O. V. Rosnitskiy, S. B. Torontkov.
RUSSIAN, Patent No 187839, Class 21.
*FTD-HT-23-30-68A

Thin Film Memory Matrix, by G. P. Zharikov, V. V. Zvyagintsev.
RUSSIAN, Patent No 191637, Class 21a¹, 37/16.
*FTD-HT-23-30-68D

Biological & Medical Sciences

The Content of Cesium-137 and Potassium in the Population of the USSR in 1962-1966, by E. L. Shapiro.
RUSSIAN, rpt, 1967.
*AEC HASL

Forecast of the Levels of Irradiation of Indigenous Inhabitants of the Far North on Account of Incorporated Total Cesium-137, by A. A. Moiseyev.
RUSSIAN, rpt, 1967.
*AEC HASL

Peculiarities of the Migration of Total Cesium-137 From Turf-Podsol Sandy Soils along Food Chains into the Human Organism, by A. A. Moiseyev.
RUSSIAN, rpt, 1967.
*AEC HASL

Radioactive Tissues of Inhabitants of Individual Regions of the Soviet Union, by D. K. Popov.
RUSSIAN, rpt, 1967.
*AEC HASL

Strontium-90 in the Bone Tissue of the Population of the Soviet Union, by A. N. Marei.
RUSSIAN, rpt, 1967.
*AEC HASL

Strontium-90 and Polonium-210 in the Bones of Inhabitants of the Far North in 1965, by P. V. Ramsayev.
RUSSIAN, rpt, 1967.
*AEC HASL

Voice Identification by Spectrum and Amplitude-Limited Speech, by G. S. Ramishvili.
RUSSIAN, per, AN OGUZSSR, Soobsheniya, Vol 40, No 1, 1965, pp 39-43.
*FTD-HT-24-12-68

Some Aspects of the Ecology of the Larvae of Black Sea Mussels, by G. A. Kiseleva.
RUSSIAN, per, Akademika nauk Ukrainskoi SSR, 1966, pp 16-20.
NLL Ref: RTS 4080

Investigation of the Electric Activity of the Uterus by Means of the Vaginal Lead, by G. M. Lisovskaya.
RUSSIAN, per, Akusherstvo i ginekologiya, Vol 40, No 3, 1964, pp 10-16.
NLL Ref: RTS 3936

Actinomycetes Indigocolor, New Species, Produces an Antibiotic of the Celicomyacin Type, by T. I. Chukanova.
RUSSIAN, per, Antibiotiki, Vol 11, No 3, 1966, pp 195-198.
HEW-NIH
12-6-67

Cross Resistance in a Group of Antineoplastic Antibiotics of the Olivomycin-mithramycin Type, by V. A. Shorin.
RUSSIAN, per, Antibiotiki, Vol 11, No 3, 1966, pp 239-241.
HEW-NIH
12-14-67

Works of Soviet Scientists in the Field of Searching for new Antibiotics, by G. G. Gause, 13 pp.
RUSSIAN, per, Antibiotiki, No 11, 1967, pp 963-971.
JPRS 44003

Soviet Achievements in Breeding Antibiotic Producer Strains, by S. Yu. Gol'dat, Yu. E. Bartoshevich, 21 pp.
RUSSIAN, per, Antibiotiki, No 11, Nov 1967, pp 971-984.
JPRS 43992

Development of Antibiotic Chemistry in the USSR, by A. S. Khokhlov, 21 pp.
RUSSIAN, per, Antibiotiki, No 11, 1967, pp 999-1012.
JPRS 44003

System of Research in the Production of Antibiotics in the USSR (1944-1967), by L. M. Yakobson, 10 pp.
RUSSIAN, per, Antibiotiki, No 11, 1967, pp 1021-1027.
JPRS 44003

On the Reactive Processes in the Brain in Chronic Local Irradiation, by I. M. Dimant.
RUSSIAN, per, Arkhiv anatomii gistologii i embriologii, Vol 48, No 3, 1965, pp 84-90.
NLL Ref: RTS 4071

Fifty Years of Soviet Anatomy and Medicine, by D. A. Zhdanov, 14 pp.
RUSSIAN, per, Arkhiv Anatomii, Gistologii i Embriologii, Vol 53, No 10, Oct 1967, pp 5-13.
JPRS 43719

A Study of the Role of Adenine-Uracil and Guanine-Cytosine in the Formation of the Secondary RNA Structure, by V.G. Tumanyan, 7 pp.
RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow, 1967, pp. 5-9.
JPRS 44,136

Systemization of Codons, by M.V. Vol'kenshteyn and Yu. B. Rumer, 6 pp.
RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow, 1967, pp. 10-13.
JPRS 44,136

The Theory of the Ionization Effect on the Degree of α -Helicity of Polypeptides, by M.V. Vol'kenshteyn and S.N. Fishman, 11 pp.
RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow, 1967, pp. 14-21
JPRS 44,136

The Cotton-Mouton Effect Theory for Polymer Solutions. 1. The Free-Linked Molecular Chain, by M.I. Mekshenkov, 11 pp.
RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow 1967, pp. 30-37.
JPRS 44,136

A Kinetic Study of Photochemical Luminescence of Serous Albumen Solutions, by I. I. Sapezhinskiy and Yu. V. Silayev, 10 pp.
RUSSIAN, per, Biofizika, No 1. Vol 12, Moscow 1967, pp 38-44.
JPRS 44,136

A Study of Primary Photoproducts of Aromatic Amino Acids at 80 Degrees K Using the Impulse Photolysis Method, by S.L. Aksentsev, et al, 8 pp.
RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow 1967, pp. 63-68.
JPRS 44,136

The Motion of the Phase Separation in Model and Biological Systems, by G.N.Zatsepina, 7 pp. RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow, 1967, pp. 69-72. JPRS 44,136

The Possible Significance of A Free-Radical Mechanism in the Regulation of Cell Reproduction, by Ye.B.Burlakova, 12 pp. RUSSIAN, per, Biofizika, No. 1, Vol. 12, Moscow, 1967, pp. 82-88. JPRS 44,136

The Contractile Ability of Cell Nuclei, by V. M. Mityushin, et al, 16 pp. RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow, 1967, pp 89-96. JPRS 44,136

The Rectifying Properties of Giant Nerve Cell Membranes in Solutions With Varying Ion Composition, by V. D. Gerasimov, et al, 12 pp. RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow, 1967, pp 97-103. JPRS 44,136

On the Nature of the Biological Effect of Vibration, by S. N. Romanov, 7 pp. RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow, 1967, pp 120-123. JPRS 44,136

X-Ray Analysis Findings on Human Erythrocytes Frozen in Polyethylene Oxide Solutions, by M. I. Shrago and R. F. Bulatova, 7 pp. RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow, 1967, pp 163-165. JPRS 44,136

Inhibition of Synaptic Acetyl Acetyl-Cholinesterase by Photostimulation of Vitrally Dyed Muscle, by Yu. M. Burmistrov and S. O. Yenenko, 6 pp. RUSSIAN, per, Biofizika, No. 1, Vol 12, Moscow, 1967, pp 165-167. JPRS 44,136

Electron Paramagnetic Resonance of Iron Coordination Complexes with Certain Nucleic Acid Components, by A. N. Il'ina, I. I. Naktinis, 7 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, Mar-Apr 1967, pp 181-185. JPRS 43645

Study of the π -Electron Structure of Watson-Crick Pairs of DNA Bases in Semiempiric Approximation by the Self-Consistent Field Method, by V. I. Danilov, V. A. Kupriyevich, 10 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, Mar-Apr 1967, pp 186-192. JPRS 43645

The Connection between Protein Conformation and Ultraviolet Luminescence, by I. D. Volotovskiy and S. V. Konev, 7 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, Mar-Apr 1967, pp 200-205. JPRS 43645

Action of Modifying Agents on Free Radicals of Irradiated Enzymes to Inactivate Their Radiation. Effect of Oxygen, by D. F. Aripova, Ye. E. Ganassi, 11 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 206-214. JPRS 43645

Laminar Structure of Chloroplast Grains, Spectral Properties of Monolayers of Chlorophyll in Vivo and in Vitro, and Adsorption Mechanism of Their Formation, by L. I. Nekrasov, 12 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 215-223. JPRS 43645

Electrophysiological Analysis of Thermal Destruction of the Skeletal Muscles of the Common European Frog, by V. B. Ushakov and T. P. Filanovskaya, 9 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 233-239. JPRS 43645

Destruction Mechanism of Biological Cells In An Ultrasonic Field and Feasibility of Studying Physical Properties of the Cell Membrane, by L. F. Lependin and V. A. Ustinova, 5 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 268-271. JPRS 43645

Transitional Diffusion in Double-Layer Tissues Reacting with Diffusing Substance, by V. K. Yegerev, 11 pp. RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 315-323. JPRS 43645

On Determining the Sequence of Bases in Nucleic Acids, by B. P. Ulanov, L. F. Malysheva, 7 pp.
RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 326-330.
JPRS 43645

Effect of Protein Conformation on Hydrogen Bonds between Peptide Groups, by Yu. M. Boyarchuk and M. V. Vol'kenshteyn, 5 pp.
RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 341-343.
JPRS 43645

Free Radical States of the Cell and of Sub-cellular Components, by O. N. Brzhevskaya, V. S. Marinov, 5 pp.
RUSSIAN, per, Biofizika, Vol 12, No 2, 1967, pp 354-356.
JPRS 43645

Effect of Alkali Metal Ions on DNA Secondary Structure. II. Melting Temperature and Viscosity of Various DNA Salts, by I. A. Kuznetsov, et al., 7 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 373-376.
JPRS 44,129

Light Scattering Study of Conformation Changes of DNA Molecules in the Process of Heat Denaturation, by O. Z. Korotkina and V. Ye. Eskin, 14 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 377-385.
JPRS 44,129

Investigation of the Kinetics of Low-Temperature Afterglow of Tryptophan and Proteins, by I. D. Volotovskiy et al, 10 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 421-426.
JPRS 44, 129

Photooxidation of Tyrosine Sensitized by Chlorophyll Derivatives, by M. S. Ashkinazi, et al. 9 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 427-432.
JPRS 44,129

Cation Permeability of Residual Membranes, by Ye. A. Liberman, et al, 9 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 430-435.
JPRS 44,129

Effect of Solution Ion Strength and Some Other Factors on the Kinetics of DNA Denaturation During Ultraviolet Irradiation, by V. M. Zhil'tsova, et al., 6 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 535-537.
JPRS 44,129

Changes of Nucleic Acid Solution pH During Conformational Transformations, by V. I. Poltev, et al., 5 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 537-539.
JPRS 44,129

Quantum Chemical Study of Tautomerism of Bases and Nucleic Acids and the Problem of Mutations, by V. I. Danilov, 8 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 540-544.
JPRS 44,129

The Role of Denaturated Molecules in DNA Reaction With N-Acetylmethylamine, by D. L. Zybina, et al, 5 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 549-551.
JPRS 44,129

Possibilities of Recording Conformational Transformations of Catalase by the Chemiluminescent Method, by Yu. M. Azizov, et al, 6 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 553-555.
JPRS 44, 129

Univalent Cations in G $\rightarrow$ F Actin Transition. Difference Spectra of Actin Absorption in Ultraviolet Region, by M. V. Georgadze and V. I. Krupyanko, 6 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 555-558.
JPRS 44,129

The Problem of Biological Memory, by L. B. Mekler, 9 pp.
RUSSIAN, journal, Biofizika, Vol 12, No. 3, Moscow 1967, pp. 569-572.
JPRS 44,129

Fifty Years of Soviet Biophysics, by G. M. Frank, 8 pp.
RUSSIAN, per, Biofizika, Vol. 12, No. 5, Moscow, 1967, pp. 757-762.
JPRS 43,848

Scientific
Biological & Medical Sciences (Contd)

Soviet Biochemistry in the 50 Years of Soviet Power, 22 pp.
RUSSIAN, journal, Biokhimiya, Vol. 32, No. 5, Moscow 67, pp. 883-899.
JPRS 43,858

Influence of the pH and Ionic Strength on the Rate of the Reaction of Organic Phosphorus Compounds with Serum Cholinesterase, by A.P. Brestkin and I. L. Brik, 10 pp.
RUSSIAN, journal, Biokhimiya, Vol. 32, No. 5, Moscow, 1967, pp. 1004-1010.
JPRS 43,858

Effect of X-Ray on Fishes -- Lebistes reticulatus, Xiphophorus helleri and Carassius vulgaris, by G. V. Samokhvalova.
RUSSIAN, per, Biol Zh, Vol 7, No 5/6, 1938, pp 1023-1034.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Electrical Medical Apparatus, by N. M. Lizentsev, 334 pp.
RUSSIAN, Bk. Elektro-Meditsinskaya Apparatura, 1964, Moscow, 3rd Edition
*NASA TT F-523

Development of Chemotherapy in the Soviet Union, by G. N. Pershin, 9 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya, Vol 30, No 5, Sept-Oct 1967, pp 515-520.
JPRS 43909

Fifty Years of Soviet Toxicology, by Yu. V. Drugov, 11 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya, Vol 30, No 5, Sept-Oct 1967, pp 521-528.
JPRS 43909

Development of Pharmacology in Pharmacy Institutes and Faculties, by A. N. Kudrin, 24 pp.
RUSSIAN, per, Farmatsiya, Vol 16, No 5, Sept-Oct 1967, pp 65-80.
JPRS 43351

Changes in the Working Capacity of Muscle After Exposure of Man to Hypokinetic Conditions, by N. I. Taranov, N. Ye. Panferova.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR, Vol 51, No 11, 1965, pp 1351-1355.
*FTD-HT-23-36-68

Scientific
Biological & Medical Sciences (Contd)

Action Mechanism of Diethylamide of Lysergic Acid (DLA) on the Central Nervous System, by I. P. Anokhina, 14 pp.
RUSSIAN, per, Fiziologicheskii Zhurnal SSSR imeni I. M. Sechenova, Vol LIII, No 9, 1967, pp 1016-1025.
JPRS 43738

Photoenergetics of a Synchronous Chloralla Culture, by L. N. Bell, Ye. A. Lin'kova, 11 pp.
RUSSIAN, per, Fiziologiya Rasteniy, Vol 14, No 5, Sep-Oct 1967, pp 866-871.
JPRS 43760

Fifth All-Union Conference on the Application of Trace Elements in Agriculture and Medicine (Irkutsk, 15-20 Aug 1966), by I. A. Burkin, G. Ya. Zhisnevskaya, 7 pp.
RUSSIAN, per, Fiziologiya Rasteniy, Vol 14, No 5, Sep-Oct 1967, pp 957-959.
JPRS 43760

Content of Atmospheric Radiolysis Products in the Operating Chambers of Powerful Gamma-Radiation Installations, by M. T. Dmitryev.
RUSSIAN, per, Gig Sanit, Vol 32, 1967, pp 112-114.
AEC-BNL-tr-160

Sanitary-Hygienic Measures in the Kremlin (1918-1920), by G. P. Zarubin, 6 pp.
RUSSIAN, per, Gigiyena i Sanitariya, No. 9, Moscow, Sept. 67, pp. 51-54.
JPRS 43,864

Organisation of Hygiene and Sanitation Services in the USSR, by M. I. Barsukov, 9 pp.
RUSSIAN, per, Gigiyena i Sanitariya, No 11, Nov 1967, pp 6-11.
JPRS 43986

Cell Research at the Academy of Sciences USSR, by Ye. Manucharova, 7 pp.
RUSSIAN, np, Izvestiya, 13 Aug 1967, p 5.
JPRS 43951

Bacteria Count in the Aral Sea Water Mass, by Zh. F. Adiyatova, M. I. Novoskhilova, 6 pp.
RUSSIAN, per, Izvestiya Akademii Nauk Kazakhskoy SSR Seriya Biologicheskaya, No 5, Sep-Oct 1967, pp 42-46.
JPRS 43713

Serological Investigations in Connection with Distant Hybridization, by I. I. Sokolovskaya. RUSSIAN, per, Izvestiya Akad.nauk SSSR Otd. mat. nauk, 1938, pp 947-956.
NLL Ref: RTS 4043

Remote Responses of the Memopietic Tissue to the Proton and X-Irradiation Combined with Acceleration, by E. I. Zharova, S. A. Khrustalev. RUSSIAN, per, AN SSSR, Izvestiya. Seriya Biologicheskaya, No 2, 1967, pp 290-296.
*FTD-HT-23-69-68

From the History of the Plant imeni L. Ya. Karpov, by I. A. Mayorov, 11 pp.
RUSSIAN, per, Khimiko-Farmatsevticheskiy Zhurnal, Vol 1, No 9, 1967, pp 3-10.
JPRS 43701

From the History of the Leningrad "Farmakon" Chemicopharmaceutical Plant, by Yu. D. Nalimov, 7 pp.
RUSSIAN, per, Khimiko-Farmatsevticheskiy Zhurnal, Vol 1, No 9, 1967, pp 10-14.
JPRS 43701

Fifty Years of Soviet Oncology, by N. N. Elokhin, 14 pp.
RUSSIAN, per, Khirurgiya, No 10, Oct 1967, pp 3-9.
JPRS 43740

The Results of Application of the Radiotelemetric Method of Investigating the Function of the Human Digestive Tract, by E. B. Bahskii & A. S. Beloysov.
RUSSIAN, per, Klinicheskaya meditsina, Vol 43, No 9, 1965, pp 35-41.
NLL Ref: RTS 3887

Fifty Years of Laboratory Work Organization in the USSR, 4 pp.
RUSSIAN, per, Laboratornoye delo, No 11, 1967, pp 643-645.
JPRS 43922

All-Union Congress of Pharmacists, by N. Konakh, 5 pp.
RUSSIAN, per, Meditinskaya Gazeta, No 79, Oct 1967, p 1.
JPRS 43341

Meditinskaya Gazeta Conference in Sverdlovsk on Problems of Young Medical Scientists, 8 pp.
RUSSIAN, newspaper, Meditinskaya Gazeta, Moscow, 12 Dec 67, p. 3.
JPRS 44,127

Fifty Years' Control of Parasitic Diseases in the USSR -- The Role of Party, Soviet, and Public Organizations, 6 pp.
RUSSIAN, per, Meditinskaya Parazitologiya i Parazitarnyye Bolesni, No 5, Sep 1967, pp 515-518.
JPRS 43976

Stages in the Control and Eradication of Malaria in the USSR, by P. G. Sergiyev, M. G. Rashina, 10 pp.
RUSSIAN, per, Meditinskaya Parazitologiya i Parazitarnyye Bolesni, No 5, Sep 1967, pp 519-525.
JPRS 43976

Main Results of the Study of Malaria Vectors and Development of Control Measures in the Soviet Union During the Past 50 Years, by N. K. Shipitsina, 10 pp.
RUSSIAN, per, Meditinskaya Parazitologiya i Parazitarnyye Bolesni, No 5, Sep 1967, pp 525-532.
JPRS 43976

Cerebral Radionecrosis, by G. I. Kirsanova & M. K. Doshchenko.
RUSSIAN, per, Med. radiol., Vol 10, 1965, pp 72-75.
NLL Ref: RTS 4124

Fixation of Molecular Nitrogen by the Representatives of the Genera Anabaena and Mostoc, by V. A. Kordyum & M. M. Strynova.
RUSSIAN, per, Mikrobiologichnyi zhurnal, Vol 28, 1966, pp 19-23.
NLL Ref: RTS 4017

Violacin, a New Pigment Antibiotic, by N. P. Bogdanova.
RUSSIAN, per, Mikrobiologiya, Vol 34, No 4, 1965, pp 623-626.
HEW-NIH
12-18-67

Nutrition Institute Recommends Meat Rations for Soviet Diet, by A. Pokrovskiy, 7 pp.
RUSSIAN, per, Myasnaya industriya SSSR, No 10, Oct 1967, pp 23-26.
JPRS 43605

Scientific
Biological & Medical Sciences (Contd)

Quantitative Data on Filter Feeding by Planktonic Crustacea, by L. M. Sushchenya.
RUSSIAN, per, Nauchnye Doklady Vysshei Shkoly. Biologicheskie Nauki, No 1, 1958, pp 16-20.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Electron Stimulation of Biopolymers, by S. V. Konev.
RUSSIAN, bk, Minsk: Nauka i Tekhnika, TK 156, .P6KB, 1965, 186 pp.
*Dept of Navy/NMS 1236

Objective Recognition of Speech Sounds, by Ye. N. Myasnikova, 127 pp.
RUSSIAN, bk, Ob'yektivnoye Raspoznavaniye Zvukov Rech'i, 1967.
JPRS 43926

Refraction and Binocular Vision in Children of Pre-School Age, by M. P. Litvinova.
RUSSIAN, per, Oftalmologicheskii zhurnal, Vol 2, 1964, pp 87-91.
NLL Ref: RTS 3960

Some Aspects of the Distribution and Composition of Organic Matter in the Waters of the Ocean, by B. A. Skopintsev.
RUSSIAN, per, Okeanologiya, Vol 6, No 3, 1966, pp 441-450.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Pathogenesis, Clinical Treatment and Therapy of Acute Radiation Sickness Based on Experiments with Monkeys, by B. A. Lapin.
RUSSIAN, rpt, Patogenez, Klinika i Lechenie Ostroi Luchevoi Bolezni v Opytakh na Obez'yanakh, 1964, pp 1-44.
AEC-tr-6713

Fifty Years of Soviet Pathological Physiology, 9 pp.
RUSSIAN, per, Patologicheskaya i Eksperimental'naya Terapiya, No. 5, Moscow, Sept 67, pp.3-9.
JPRS 44,135

Pathogenesis and Experimental Therapy of Radiation Sickness in the Works of Soviet Pathophysiologists During the Past Fifty Years, by P.D. Gorizontov, 17 pp.
RUSSIAN, per, Patologicheskaya i Eksperimental'naya Terapiya, No. 5, Moscow, Sept 67, pp. 32-41.
JPRS 44,135

Scientific
Biological & Medical Sciences (Contd)

Progress of Reanimatology in the USSR, by V.A. Negovskiy and A.M. Gurvich, 12 pp.
RUSSIAN, per, Patologicheskaya i Eksperimental'naya Terapiya, No. 5, Moscow, Sept 67, pp. 41-48.
JPRS 44,135

Composition and Physico-Chemical Properties of Bee Venom, by N. P. Ioyrish, 19 pp.
RUSSIAN, bk, Pchely i meditsina, 1966, pp 103-125.
JPRS 43630

Storing and Conserving Hematopoietic Elements, by M.P. Sukhanov, 24 pp.
RUSSIAN, bk, Peresadka Krovotvornykh Tkaney Pri Luchevykh Porazheniyakh, Leningrad, Meditsina Press, 1967, pp. 19-36.
JPRS 44,044

Conclusion - Transplantation of Hematopoietic Tissues in Radiation Injuries, by M. P. Sukhanov, 5 pp.
RUSSIAN, bk, Peresadka Krovotvornykh Tkaney Pri Luchevykh Porazheniyakh, Leningrad, Meditsina Press, 1967, pp. 205-209.
JPRS 44,044

Classification of Plasma Substitutes, by I. Sh. Elyumin, 8 pp.
RUSSIAN, per, Plazmozameshchayushchiye Rastvory i Preparaty Krovi v Ambulatornoy Praktike, 1967, pp 5-14.
JPRS 43908

Research Conducted on Effects of Extended Enforced Immobility, by Pavel Barashev, 8 pp.
RUSSIAN, newspaper, Pravda, Moscow, 1 Oct 67, p. 6.
JPRS 44,158

Pelagic Ichthyofauna of the Northwestern Pacific Ocean, by N. V. Parin.
RUSSIAN, per, Priroda, No 5, 1958, pp 60-66.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

A Spatial Design for Space-Station Greenhouses, by V. G. Chuchkin, 23 pp.
RUSSIAN, per, Priroda, No 10, 1967, pp 58-69.
JPRS 43943

Main Achievements of the Soviet Blood Bank Service and Prospects for its Further Development, by A. Ye. Kiselev, 14 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya Krovi, No 10, Oct 1967, pp 2-12.
JPRS 43759

Scientific
Biological & Medical Sciences (Contd)

Blood Preservation, by F. R. Vinograd-Finkel',
12 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya
Krovi, No 10, Oct 1967, pp 13-21.
JPRS 43759

Trends in the Formulation of Blood Preparations,
by G. Ya. Rosenberg, 11 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya
Krovi, No 10, Oct 1967, pp 21-28.
JPRS 43759

Development and Progress of Surgical Hematology
during the Soviet Regime, by D. M. Grozdov,
P. I. Polrovskiy, 9 pp.
RUSSIAN, per, Problemy Gematologii i Perelivaniya
Krovi, No 10, Oct 1967, pp 55-60.
JPRS 43759

Thirtieth Anniversary of the Discovery of the
Causative Agent of Tick-Borne Encephalitis, by
Ye. N. Levkovich, M. P. Chumakov, 8 pp.
RUSSIAN, per, Problemy Virusologii, No 5, Sep
1967, pp 524-530.
JPRS 43974

Birds of the Soviet Union, Vol IV, by G. P.
Dement'ev, N. A. Gladkov.
RUSSIAN, bk, Ptitsy Sovetskogo Soyusa, Vol IV,
1952.
CFSTI
NSF 65-50100

Discovering the Secrets of the Human Psyche, by
P. I. Bul', 57 pp.
RUSSIAN, per, Raskryvaya Tayny Chelovecheskoy
Psikhiki, "Zhaniye", 1964, 47 pp. P100367367
FTD-HT-66-294

Distribution and Biological Effect of Radio-
active Isotopes, by Yu. I. Moskaev.
RUSSIAN, bk, Raspredelenie i Biologicheskoe
Deistvie Radioaktivnykh Izotopov, Sbornik
Stazh, 1966, 574 pp.
*AEC DTIE

The Possible Participation of Growth Substances
and Nucleic Acids on the Behavior Mechanism of
Phytochrome.
RUSSIAN, bk, Regulyatory Rosta Rasteniy i
Nukleinovyye Obmen, 1965, pp 65-102.
Dept of Navy 5203/NIC 2317

Scientific
Biological & Medical Sciences (Contd)

The Pacific Varieties of Calanus finmarchicus
S. L., by V. A. Jaschnov.
RUSSIAN, rpt, Report of the Pacific Institute
for Marine and Ichthyological Economy and Oceanog-
raphy, No 44, 1967.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Jack Mackerel Trachurus japonicus of the East
China Sea, by G. N. Semenov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 1, 1966,
pp 8-10.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The "Putassu" M. a. romesistius of the Porcupine
Bank, by A. S. Polonskii.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 2, 1966,
pp 5-9.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Size and Age Composition of Atlantic-Scandinavian
Herring, by Yu. K. Benko, V. K. Zilmanov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966,
pp 17-19.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

An Objective Index for the Evaluation of the
Quality of Edible Whale Fat, by F. M. Ashav-
skaya.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966,
pp 69-72.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Effect of Thermal Conditions and Population
Size on the Growth Dynamics of Some Herrings,
by G. A. Bogdanov, S. S. Fedorov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966,
pp 12-15.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Scientific
Biological & Medical Sciences (Contd)

The Biologists' Ice-Floe Station, by L. A. Popov.
RUSSIAN, per, Rybnoe Khoz., Vol 42, No 10, 1966,
pp 33-34.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Acoustic Activity of Dolphins, by E. V. Shikhova.
RUSSIAN, per, Rybnoe Khoz., Vol 43, No 2, 1967,
pp 19-21.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Study of Structural and Mechanical Properties
of Muscle Tissue in Fish, by V. P. Prosalikov,
A. I. Paleev.
RUSSIAN, per, Rybnoe Khoz., Vol 43, No 3, 1967,
pp 65-66.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Maximum Velocities of Movement of Fish, by U. N.
Chestnoy, 7 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, No 9, 1967,
pp 22-27.
JPRS 43723

Using Fish Meal to Raise the Caloric Content of
Food Dishes, by A. I. Davilova, 6 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, No 11, 1967,
pp 64-66.
JPRS 44004

Labor Hygiene and Industrial Sanitation, by
L. V. Yanin.
RUSSIAN, bk, Sbornik Vazhneishikh Ofitsial'nykh
Materialov po Voprosam Gigeny Truda i Proiz-
vodstvennoi Sanitarii, Gosudarstvennoe Izdatel
Meditsinskoi Literatury, 1962, pp 1-222.
AEC-tr-6467/2

Change in the Electrical Conductivity of Fish
Muscle Tissue During Chilling and Storage, by
G. V. Maslova.
RUSSIAN, per, Scientific Research and Design
Institute for the Mechanization of the Fishing
Industry, No 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Scientific
Biological & Medical Sciences (Contd)

Increasing the Sensitivity of the Method of
Determining Residual Amounts of Antibiotics in
the Tissues of Fish, by A. I. Onikienko.
RUSSIAN, per, Scientific Research Design
Institute for the Mechanization of the Fishing
Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Methods for the Epidemiologic Study of Mental
Illness in the USSR, by N. N. Jarikow.
RUSSIAN, per, Seminar of the WHO on Mental Hygiene,
1967, 13 p.
HEW-NIH
12-1-67

The Structure and Forms of Activity of the Centers
for Psychoneurologic Assistance to Children and
Adolescents, by V. V. Kovaliov.
RUSSIAN, per, Seminar of the WHO on Mental Hygiene,
1967, 15 p.
HEW-NIH
12-19-67

Recurrences of Tularemia-Induced Psychoses,
by F. I. Grudev, 6 pp.
RUSSIAN, per, Sovetskaya Meditsina, No 8, Aug
1967, pp 104-107.
JPRS 43821

Highlights in the Soviet Public Health Service
(1917-1967), 7 pp.
RUSSIAN, per, Sovetskoye zdavookhraneniye,
No 11, 1967, pp 3-8.
JPRS 43889

Basic Stages in the History of the Soviet Public
Health Service, by Yu. P. Lisitsyn, 24 pp.
RUSSIAN, per, Sovetskoye zdavookhraneniye,
No 11, 1967, pp 17-35.
JPRS 43889

The Main Directions in the Development of the
Public Health Service in the USSR During 1966-
1967, by A. F. Serenko, 18 pp.
RUSSIAN, per, Sovetskoye zdavookhraneniye,
No 11, 1967, pp 35-48.
JPRS 43889

Successes and Problems of the Public Health
Service of the Soviet Ukraine, by P. L. Shupik,
10 pp.
RUSSIAN, per, Sovetskoye zdavookhraneniye,
No 11, 1967, pp 48-55.
JPRS 43889

Fifty Years of the Belorussian Public Health Service, by N. Ye. Savchenko, 8 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 55-61.
JPRS 43889

Higher Medical Education in the USSR, by Yu. F. Isakov, 10 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 61-68.
JPRS 43889

Pressing Problems in Social Hygiene, by N. A. Vinogradov, 13 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 68-77.
JPRS 43889

The Role of the Public in the Construction of the Public Health Service, by S. Ya. Freydlin, 6 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 77-81.
JPRS 43889

The Elimination of Infectious Diseases as a Problem in Social Hygiene, by V. D. Timakov, 11 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 82-90.
JPRS 43889

Basic Indicators of the Public Health Service of the USSR: A Comparison of Pre-Revolutionary and Prewar Periods, 9 pp.
RUSSIAN, per, Sovetskoye zdravookhraneniye, No 11, 1967, pp 91-95.
JPRS 43889

Contemporary Problems of Electrophysiology of the Central Nervous System, by V. S. Rusinov.
RUSSIAN, bk, Sovremennye Problemy Elektrifiziologii Tsentralnoi Nervnoi Sistemy, 1967. Plenum Press

Salivary Glandular Changes in Avitaminosis "A" in Rats, by I. Khudoyarov, A. G. Bobkov, 11 pp.
RUSSIAN, per, Stomatologiya, Vol 6, No 5, 1965, pp 45-50. P100365067
FTD-HT-66-639

Ultra-Weak Radiation of Biological Systems, by B. N. Tarusov, N. I. Ivanov.
RUSSIAN, per, Sverkhslaboye Svoebimoye Biologicheskikh Sistem, Izd-vo Moskenskogo Universiteta, 1967. 70 pp.
*FTD-HT-24-396-67

The Use of Hexachlorocyclohexane in Suspensions with Marl, by D. S. Shepelev & V. G. Belov.
RUSSIAN, per, Tezisy doklady nauch. konfer. Vses. obshch. gel. AN SSSR, Vols 10-14, No 1, 1962, pp 212-214.
NLL Ref: RTS 4101

Transplantation Immunity and Radiation Chimeras, by R. Petrov and Yu. Zaretskaya.
RUSSIAN, bk, Transplantatsionnyi Immunitet i Radiatsionnye Khimery, 1965.
CFSTI
AEC-tr-6726

Coumarins and Furocoumarins in the Plant Kingdom, by G. A. Kuznetsova.
RUSSIAN, per, Trudy Botan. inst. Akad. nauk SSSR, Series 5, Vol 12, 1965, pp 3-12.
NLL Ref: RTS 4020

Pathways of Migration of the Larvae of Delafondia vulgaris in the Horse, by E. I. Skalinskiy.
RUSSIAN, per, Trudy Vsesoyuznyi institut eksperimental'noi veterinarii, Vol 19, No 2, 1952, pp 82-86.
NLL Ref: RTS 4084

Methods of Investigating the Biological Features of Fish Populations and Changes in them, by K. A. Zimakaya.
RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Instituta Morskogo Rybnogo Khozyaystva i Okeanografii, Vol 30, 1964, pp 39-43.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Effect of Histones on the Development of the Sea Urchin Eggs, by V. I. Vorob'yev, A. A. Neifakh.
RUSSIAN, per, Tsitologiya, Vol 6, 1964, pp 496-498.
AEC-LA-tr-67-43

Electron Microscope Cell Research in the USSR, by V. F. Mashenskiy, 19 pp.
RUSSIAN, per, Tsitologiya, Vol 9, No 10, Oct 1967, pp 1172-1180.
JPRS 43941

Resume of Soviet Cytological Research, 5 pp.
RUSSIAN, per, Tsitologiya, Vol 9, No 19, Oct 1967, pp 1169-1171.
JPRS 43941

Scientists Probe Man's Ability to Survive Prolonged Stay in an Enclosed Chamber, by A. Romanov, 4 pp.
RUSSIAN, newspaper, Turkmeneskaya Iskra, Ashkhabad, 17 Dec 67, p. 4.
JPRS 44,134

History of the Main Military Hospital, by Col. P. Ponamarev, 6 pp.
RUSSIAN, per, Tyl i Snabzheniye, No. 11, Moscow, Nov 67, pp. 56-59.
JPRS 44,047

Effect of the Na, Mg, Cl and SO₄ ions on the Growth, Reproduction and Carotene Formation in the Alga Dunaliella salina Teod, by N. P. Masyuk.
RUSSIAN, per, Ukrayins'kyi botanichnyi zhurnal, Vol 22, No 5, 1965, pp 3-11.
NLL Ref: RTS 4031

Carbonates and Bicarbonates as Stimulants of Growth and of Accumulation of Carotene in the Culture of Dunaliella salina Teod, by N. P. Masyuk.
RUSSIAN, per, Ukrayins'kyi botanichnyi zhurnal, Vol 22, No 6, 1965, pp 18-21.
NLL Ref: RTS 4087

Two Types of Energy Transfer and Their Part in Photobiological Processes, by V. L. Yermolayev, 5 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 14-17.
JPRS 43436

Primary Photophysical Processes in Albumens as Basic Recipients of Ultraviolet Radiation, by S. V. Konev, Ye. A. Chernitskiy, 7 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 18-23.
JPRS 43436

The Effect of the Macromolecular Structure of Albumen on Triplet-to-Triplet Transfers, by S. V. Konev and V. P. Bobrovich, 7 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 23-28.
JPRS 43436

A Study of Photochemical Processes in Albumens and Aromatic Amino Acids by a Method of Measurement of Luminescence and Thermoluminescence, by D. I. Roshchupkin and Yu. A. Vladimirov, 8 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 23-33.
JPRS 43436

Induced Phosphorescence of Aromatic Amino Acids and Albumens, by S. L. Aksentsev, V. I. Olenov, 5 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 34-37.
JPRS 43436

An Investigation of the Nature of Free Radicals Formed during Photolysis of Alcohol Solutions of Aromatic Amino Acids and Porphyrines, by Z. P. Gribova, 7 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 41-45.
JPRS 43436

Investigation of the Effect of Ultra-Violet and Visible Light on Paramagnetic Centers of Dry Albumens, Polypeptides, and Amino Acids, by M. K. Pulatova and Yu. S. Malinin, 6 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 46-50.
JPRS 43436

An Investigation of Photo-Oxidation of Reconstituted Pyridine Nucleotides As Related to the Photobiological Effect of Short Range Ultraviolet Radiation, by A. A. Krasnovskiy and G. P. Brin, 9 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 50-56.
JPRS 43436

The Effect of Ultraviolet Radiation of the Synthesis of Nucleic Acids in a Human Amniotic Cell Culture, by V. V. Terskikh, 5 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 57-60.
JPRS 43436

Changes in Polarographic Waves of Albumens under the Influence of Ultraviolet Radiation, by Ye. Ye. Rakhleyeva and I. D. Ivanov, 7 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 60-64.
JPRS 43436

Molecular Mechanisms of Lethal and Mutagenic Effect of Ultraviolet Irradiation on Viruses and Bacteria, by G. B. Zavil'gelskiy and V. I. Tovarnitskiy, 18 pp.
RUSSIAN, rpt, Ul'trafiioletovoye Izlucheniye, 1966, pp 65-77.
JPRS 43436

A Study of Resonant Energy Migration in Nucleic Acids, by V. N. Gagloyev and Yu. A. Vladimirov, 6 pp.
RUSSIAN, rpt, Ul'trafiol'tovoye Izlucheniye, 1966, pp 77-80.
JPRS 43436

The Mutagenic Effect of Ultraviolet Rays on A Free and Inter-cellular Bacteriophage, by A. S. Krivitskiy, 11 pp.
RUSSIAN, rpt, Ul'trafiol'tovoye Izlucheniye, 1966, pp 81-88.
JPRS 43436

Data on the Physiological Study of Work Involving a Great Deal of Nervous (Mental-Emotional) Strain, by A. I. Kikolov, 14 pp.
RUSSIAN, bk, Umstvenno-emotsional'noye napryazheniye za pul'tom upravleniya, pp 7-25.
JPRS 43700

Comparative Description of the Labor Processes, the Work Cycle and Physiological Functions in the Dynamics of the Working Day in the Case of Workers Engaged in Work at the Control Panel, by A. I. Kikolov, 67 pp.
RUSSIAN, bk, Umstvenno-emotsional'noye napryazheniye za pul'tom upravleniya, pp 49-133.
JPRS 43700

Development, Introduction, and Verification of the Effectiveness of Physiologically Substantiated Measures for the Rationalization of the Work of Television Studio Workers and Rail Transport Workers, by A. I. Kikolov, 22 pp.
RUSSIAN, bk, Umstvenno-emotsional'noye napryazheniye za pul'tom upravleniya, pp 134-162.
JPRS 43700

Methods of Investigating Mental-Emotional Work, by A. I. Kikolov, 5 pp.
RUSSIAN, bk, Umstvenno-emotsional'noye napryazheniye za pul'tom upravleniya, pp 171-175.
JPRS 43700

Fifty Years of Soviet Biology, 21 pp.
RUSSIAN, per, Uspekhi Sovetskoy Biologii, No 2(5), Sep 1967, pp 163-180.
JPRS 43975

Use of Radiotelemetry in Space Medicine, by I. T. Akulinichev.
RUSSIAN, per, Vestnik Ak Meditsinskikh Nauk SSSR, Vol 2, 1964, pp 60-66.
*NASA TT F-11,528

Visit of Soviet Medical Delegation to North Vietnam, by Prof. F.G.Uglov, 10 pp.
RUSSIAN, journal, Vestnik Khirurgii im I.I. Grekova, Vol. 99, No. 9, Leningrad, Sept. 1967, pp. 133-137.
JPRS 43,806

On the Fiftieth Anniversary of Soviet Surgery, 5 pp.
RUSSIAN, per, Vestnik Khirurgii, No. 11, Leningrad, Meditsina Publishing House, Nov 67, pp. 3-6.
JPRS 44,150

The Contribution of Leningrad Surgeons to the Development of Soviet Surgery During Fifty Years of the Soviet State, by Prof. A.N. Filator, 10 pp.
RUSSIAN, per, Vestnik Khirurgii, No. 11, Leningrad, Meditsina Publishing House, Nov 67, pp. 6-12.
JPRS 44,150

The Theory of Organ and System Variability in Man, 1917-1967, by Prof. A.N. Maksimenkov, 11 pp.
RUSSIAN, per, Vestnik Khirurgii, No. 11, Leningrad, Meditsina Publishing House, Nov 67, pp. 13-20.
JPRS 44,150

The Effects of a Powerful Blast Wave on an Organism, by Prof. L.N. Aleksandrov and Prof. Ye. A. Dyakin, 8 pp.
RUSSIAN, per, Vestnik Khirurgii, No. 11, Leningrad, Meditsina Publishing House, Nov 67, pp. 88-94.
JPRS 44,150

Methods of Taking Fish Blood, by V. V. Metalev, V. M. Koslov.
RUSSIAN, per, Veterinariya, Vol 42, 1965, pp 80-81.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Schistosomiasis in Military Pathology, by A. P. Pekashev, 8 pp.
RUSSIAN, per, Voenno-Med Zh, Vol 7, 1965, pp 55-57.
Dept of Navy/AFM 1223

The Effect of Systematic Exposure to High Temperatures on the Human Organism, by P. V. Buyanov & A. V. Beregovkin.
RUSSIAN, per, Voenno-Meditsinskii Zh, No 11, 1966, pp 40-44.
Dept of Navy/ APL/JHU T-2078

Scientific
Biological & Medical Sciences (Contd)

Biochemistry of the Nervous System, by
A. V. Palladin.
RUSSIAN, bk, Voprosy Biokhimiya Nervnoi Sistemy,
1965, pp 1-129.
NASA TT F-439
CFSTI TT 67-51375

I. V. Michurin and Modern Genetics, by N. P.
Dubinin.
RUSSIAN, per, Voprosy filosofii, Vol 6, 1966,
pp 59-70.
NLL Ref: RTS 3746

The Systems Approach in Social Research, by
I. V. Blaumberg and E. G. Yudin, 17 pp.
RUSSIAN, per, Voprosy filosofii, No 9, 1967,
pp 100-111.
JPRS 43704

The Problem of "Progress" in Organic Nature,
by K. M. Zavadskiy, 18 pp.
RUSSIAN, per, Voprosy filosofii, No 9, 1967,
pp 124-126.
JPRS 43704

The Caloric Content of the Dry Substance of
Water Invertebrates Used as Food by Fish, by A.
P. Ostapenya, A. I. Sergeev.
RUSSIAN, per, Voprosy Ikhtologii, Vol 3, No
1(26), 1963, pp 177-183.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Biological Bases of Fisheries in the Water
Basins of Central Asia and Kazakhstan, by I. E.
Lekshina.
RUSSIAN, per, Voprosy Ikhtologii, Vol 7, No 3,
1967, p 581.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Development of Health Resort Science during
the Fifty Years of Soviet Power, by Yu Ye.
Danilov, 12 pp.
RUSSIAN, per, Voprosy kurortologii, fizio-
terapii i lechebnoy fizicheskoy kul'tury,
No 5, Sept-Oct 1967, pp 385-391.
JPRS 43527

Fifty Years of Development of Soviet
Physiotherapy, by A. N. Obrosoy,
8 pp.
RUSSIAN, per, Voprosy kurortologii,
fizioterapii i lechebnoy fizicheskoy
kul'tury, No 5, Sept-Oct 1967, pp 392-396.
JPRS 43527

Scientific
Biological & Medical Sciences (Contd)

Structural Characteristics and Oxidative Exchange
of Granular Fraction Isolated from Blood Platelets
of Man, by N. B. Cherniak.
RUSSIAN, per, Vop Med Khim, Vol 9, No 2, 1963,
pp 146-154.
HEW-NIH
12-8-67

On the Mechanism of Action of the Antibiotic
Olivomycin, by E. S. Zalmanzon.
RUSSIAN, per, Vop Med Khim, Vol 12, No 1, 1966,
pp 58-62.
HEW-NIH
12-17-67

Heterotransplantation of Malignant Tumours, by
Yu. M. Vasil'ev.
RUSSIAN, per, Voprosy onkologii, Vol 2, 1956,
pp 237-242.
NLL Ref: RTS 4083

Development of Clinical Oncology During 50 Years
of Soviet Rule, by A. I. Rakov, et al, 11 pp.
RUSSIAN, PER, Voprosy Onkologii, Vol XIII, No 11,
1967, pp 3-11.
JPRS 44,151

Organizational Principles of the Anticancer
Campaign in the USSR, by N.D. Kaufman, 11 pp.
RUSSIAN, per, Voprosy Onkologii, Vol. XII,
No. 11, Leningrad 1967, pp. 12-20.
JPRS 44,151

Achievements of Soviet Biochemistry As a
Theoretical Basis of the Production of Food-
stuffs, by A. I. Oparin, 8 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol 26, No 5,
1967, pp 10-15.
JPRS 43631

Fifty Years of Development and Progress in Nutri-
tion Science (1917-1967), by F.Ye. Budagyan,
13 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26, No. 5,
Meditsina, Moscow, Sept-Oct 67, pp. 15-23.
JPRS 43813

Trends in the Development of Vitaminology in the
Soviet Union During the Last Fifty Years, by
V.V. Yefremov, 16 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26,
No. 5, Meditsina, Moscow, Sept-Oct 67, pp. 25-33.
JPRS 43,813

Some Aspects Illustrating the Development of
the Biochemistry of Nutrition During Fifty Years
of Soviet Power, by A.E. Sharpenak, 10 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26,
No. 5, Meditsina, Moscow, Sept.-Oct 67, pp. 33-39.
JPRS 43,813

Therapeutic and Therapeutic-Prophylactic Nutrition During the Years of Soviet Power, by M.S.Marshak, 5 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26, No. 5, Meditsina, Moscow, Sept-Oct 67, pp. 39-42.
JPRS 43,813

Some Urgent Problems in Nutrition Hygiene, by A.A. Pokrovskiy, 20 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26, No. 5, Meditsina, Moscow, Sept-Oct 67, pp. 42-53.
JPRS 43,813

Status of and Prospects for Research on the Toxicology of Pesticides in Foodstuffs and the Fixing of Hygienic Standards Therefor, by A.I. Shtenberg, 21 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26, No. 5, Meditsina, Moscow, Sept-Oct 67, pp. 53-62.
JPRS 43,813

Sixteenth Scientific Session of the Institute of Nutrition, Academy of Medical Sciences USSR, by S.G. Aptekar' and K. I. Yegorov, 14 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol. 26, No. 5, Meditsina, Moscow, Sept-Oct 67, pp. 84-89.
JPRS 43,813

Mutagenic and Inactivating Action of Hydroxylamine in the Treatment of Infectious RNA and Native Poliomyelitis Virus, by Yu. Z. Gendon.
RUSSIAN, per, Voprosy virusol, Vol 6, 1966, pp 724-729.
NLL Ref: RTS 4051

Achievements of Soviet Virology Since the October Revolution, by V. M. Zhdanov, 8 pp.
RUSSIAN, per, Voprosy Virusologii, No 4, 1967, pp 387-392.
JPRS 43739

Fifty Years' Efforts to Control Virus Infections in the USSR, by O. V. Baroyan, R. A. Kantorovich, 11 pp.
RUSSIAN, per, Voprosy Virusologii, No 5, Sep 1967, pp 515-524.
JPRS 43974

Relationship Between the Effect of Ionizing Radiation on the Course of Virus Infections and the Virus Dose used to Inoculate the Animals, by A. G. Moros, O. P. Peterson, 8 pp.
RUSSIAN, per, Voprosy Virusologii, No 5, Sep 1967, pp 562-566.
JPRS 43974

The Synthesis of Some Deuterated Aromatic Hydrocarbons and their Raman Spectra, by A. I. Shatenshtein.
RUSSIAN, per, Zh Fiz Khim, Vol 32, No 1, 1958, pp 146-151.
HEW-NIH
12-4-67

Results of Study and Control of Brucellosis in the USSR, by P. A. Vershilova, 6 pp.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 9, Sep 1967, pp 3-6.
JPRS 43760

Achievements of Soviet Disinfection, by V. I. Vashkov, 15 pp.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 9, Sep 1967, pp 7-13.
JPRS 43760

Evolution of Botulism, Report I, Biological Significance of Pathogenicity, by P. N. Burgasov, S. N. Romyantsev, 9 pp.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 9, Sep 1967, p 18-24.
JPRS 43760

Comparative Study of Anthrax Bacteriophage, by Ye. N. Levina, V. R. Arkhipova, 8 pp.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 9, Sep 1967, pp 24-28.
JPRS 43760

Concentration and Purification of Staphylococcus Delta-Toxin, by Ye. V. Ruskova, 9 pp.
RUSSIAN, per, Zhurnal Mikrobiologii Epidemiologii i Immunobiologii, No 9, Sep 1967, pp 95-100.
JPRS 43760

Fifty Years of Soviet Military Epidemiology, by Ye. I. Smirnov, 9 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No. 11, Moscow, Nov 67, pp. 45-52.
JPRS 44,043

The Role of El Tor Vibrios in Cholera Epidemiology (Survey), by V.S. Ganin and L. Ye. Khundanov, 9 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No. 11, Nov 67, pp. 87-93.
JPRS 44,043

Scientific
Biological & Medical Sciences (Contd)

Effectiveness of Various Methods of Immuno-
fluorescent Examination of Rickettsiae and
Causes of the Ornithosis-Lymphogranuloma
Group, by R.B. Gol'din, et al, 9 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidem-
iologii i Immunobiologii, No. 11, Nov 67,
pp. 133-139
JPRS 44,043

Clinical Aspects of Tularemia-Induced Psychoses,
by F. I. Grudev, 10 pp.
RUSSIAN, per, Zhurnal Nevropatologii i Psikiatrii,
No 5, 1967, pp 748-754.
JPRS 43821

Development of Biological Research in the
USSR, 12 pp.
RUSSIAN, per, Zhurnal obshchey biologii,
Vol 28, No 5, 1967, pp 491-500.
JPRS 43335

The Origin of the Special Calanus finmarchicus
S.L., by V. A. Jaschnov.
RUSSIAN, per, Zoological Journal, Academy of
Sciences, USSR, Vol 37, No 6, Dec 1955, pp 838-
845.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

New Data Regarding the Goby Fish (Gobius paganellus
L.) On the Coasts of the Soviet Union, by V. I.
Pinchuk.
RUSSIAN, per, Zool. zhurn., Vol 45, 1966, pp 612-
614.
MIL Ref: RTS 4096

The Spasmolytic Action of Nemicol-5 (t), by G.
Kotev, A. Somlev, 7 pp.
BULGARIAN, per, Ekperimentalna Meditsina i
Morfilogiya, Vol 6, No 3, Jul-Sep 1967, pp 142-
147.
JPRS 43953

The Status and Future Development of Experimental
Surgery in Bulgaria, by St. Dimitrov, G. Krustinov,
5 pp.
BULGARIAN, per, Khirurgiya, No 5, Oct-Nov 1967,
pp 409-413.
JPRS 43952

Scientific
Biological & Medical Sciences (Contd)

Prophylactic Effect of Aminoethylisothio-
Uronium Bromide Hydrobromide (AET) in Combina-
tion with Bee Milk in Acute Experimental Radi-
ation Sickness, by S. Boyadzhiev, P. Peychev,
6 pp.
BULGARIAN, per, Rentgenologiya i Radiologiya,
Vol 6, No 3, Jul-Sept 1967, pp 190-193.
JPRS 43628

On Some Questions of Blood Transfusions in
Wartime, by P. Minkov, 8 pp.
BULGARIAN, per, Voenno-meditsinsko Delo, No 5,
Oct 1967, pp 5-10.
JPRS 43911

Screening Test of Anti-Japanese B Encephalitis
Virus Drugs, 16 pp.
CHINESE, per, Acta Pharmaceutica Sinica,
Vol XI, No 6, June 1964.
ACSI J-2953
ID 2204021567

Modification of Penicillin Molecular Structure;
Semi-Synthetic Penicillin, by Hsing-han Lei.
CHINESE, per, Ch'uan kuo ti san ts'u k'ang chun
su Hsueh shu hui i lun wen chi, No 2, 1965, pp
30-62.
*FTD-HT-23-43-68

The Quality of Pathological Work in China and the
Problem of its Direction in View of the Second
National Scientific Conference of Pathology, by
Ch'en Ch'in-ts'ai & Chiang Ch'ing-fen, 5 pp.
CHINESE, per, Chung-hua Ping-li-hsueh, Vol 8,
No 1, Mar 1964.
JPRS 43872

A Study of Food Output in Mainland China (Part III),
by Chi I-chai, 11 pp.
CHINESE, per, Fei-ch'ing Yueh-pao, Vol 10, No 9,
1 Nov 1967, pp 55-63.
JPRS 43937

Management of Drugs During Their Potent Period,
by Chou Han-Chang and Hsu Jui-t'ing, 15 pp.
CHINESE, per, Yao-hsueh T'ung-pao, Vol. 11,
No. 11, Peking, Nov 65, pp. 487-491.
JPRS 44,008

Activities of Yugoslav Pharmaceutical Organ-
izations During 1967, 13 pp.
CROATIAN, per, Farmaceutski Glasnik, Vol. 24,
No. 2, Zagreb, Jan 68, pp. 39-44.
JPRS 44,173

Intentional Change of Personality Considered from a Moral-Theological Point of View, by C. H. Moonen.
DUTCH, per, Nijmegen, Chap VI, 1965, pp 178-206.
HEW-NIH
12-12-67

Biosynthetically Labelled Nucleic Acids, Nucleosides and Nucleotides, by R. Cardinaud.
FRENCH, rpt, AEC-CONF-66-391-39, Nov 1966.
*AEC AERE

Anatomical and Clinical Comparison of 129 Malignant Cutaneous Hematoreticulopathies, by R. Degos.
FRENCH, per, Ann Derm Syph, Vol 92, No 2, 1965, pp 121-127.
HEW-NIH
12-15-67

Investigations into Isolation of the Virus of Infectious Mononucleosis, by G. Marinesco.
FRENCH, per, C R Acad Sc, Vol 258, 1964, pp 746-748.
HEW-NIH
12-11-67

Plant Physiology. Remarks on the Action of Gibberellic Acid on OENOTHERA BIENNIS L., by Caluda Picard.
FRENCH, per, Comptes Rendus, Vol 247, 1958, pp 2184-2187.
AEC-ANL-Trans-516

Present State of Knowledge on the Electroencephalography of Conditioning, by H. Gastaut, 28 pp.
FRENCH, per, Electroencephalography and Clinical Neurophysiology, Suppl 6, 1957, pp 133-160.
ACSI J-3896
ID 2204058167

Ultrastructural Study of a Murine Sarcoma Virus (MSV), by J. C. Leclerc.
FRENCH, per, Int J Cancer, Vol 2, No 5, 1967, pp 475-487.
HEW-NIH
12-13-67

Seventy Perfusion of Homologous Lymphocytes in 25 Cases of Advanced Cancer, by L. Israel.
FRENCH, per, Path Biol, Vol 15, Nos 11/12, 1967, pp 603-606.
HEW-NIH
12-3-67

Is it Possible to Regulate the Division of Cancer Cells?, by P. Kissel.
FRENCH, per, Presse Med, Vol 75, No 18, 1967, pp 891-896.
HEW-NIH
12-9-67

Opinions Concerning Fatigue and the Adaption of man to Heat, by H. Laborit.
FRENCH, per, Revue de Med. Novale, Vol. 14, 1959, pp 217-236.
*NASA TT F-11,476

Incalculable Health Hazards Caused by Food Irradiation: An Irresponsible Experiment, by Walter Herbst, 34 pp.
GERMAN, rpt.
P911007168
AEC AEC-TR-6906

The Effect of Constant Living Conditions on the Buffer Capacity of Saliva, by I. Szabo & K. Toth, 16 pp.
GERMAN, per, Academia Scientiarum Hungaricae. Acta Physiologica, Vol 20, No 2, 1961, pp 93-104.
P100348567
FTD-HT-67-71

Experimental Leukemia in Chickens, by V. Ellermann.
GERMAN, per, Cbl Bakt (Orig), Vol 46, No 7, 1908, pp 595-609.
HEW-NIH
12-10-67

List Of Blood Banks In Austria, 8 pp.
GERMAN, per, Handbuch Fuer Die Sanitaetsberufe Oesterreich, Aug 1966, pp 407-413.
DIA LN 329-68

Practical Use of the Test for HB F-Containing Cells in Blood Smears, by Enno Kleinhauser, 11 pp.
GERMAN, per, Internist, Vol 1, No 6, 1960, pp 292-295.
Dept of Navy/NMS 1222

Local Effect of the Heparinoid-Luronase Containing Salve Lasonil(R) upon the Thrombophlebitic Process in the Lower Leg, Scar Formation, Intra-Gluteal Infiltrates and in Skin Transplants, 2 pp.
GERMAN, per, Landarts, Vol 41, 31 Jul 1965, pp 918-920.
Dept of Navy/NMS 1226

Scientific
Biological & Medical Sciences (Contd)

Storage Experiments with Canned Meat, by
Lothar Hofmann, 8 pp.
GERMAN, per, Mag. Die Verpackung, No 2,
Mar/Apr 1967, pp 49-51.
ACSI J-2577
ID 2204022367

In Vitro Determination of Thyroid Function
with Serum T_3 Test, by W. Stumpf, E. G. Graul.
GERMAN, per, Med Klin, Vol 58, 1963, pp 192-196.
AEC-AERE-Trans-1073

Significance of the Interstitial Sand-Fauna for
General Problems of Taxonomy, Ecology and Bio-
logy, by Peter Ax.
GERMAN, rpt, Veroff Inst Meeresforsch Bremerh
Suppl 2, 6th Meeresbiol Symp, Bremerh, 18-20
Oct 1967, pp 15-99.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Effects of Experimental Changes in the
Mineral and Water Balance in Pregnant Rats on the
Fetuses and the Amniotic Fluid, by Horst Winkler,
16 pp.
GERMAN, per, Wissenschaftliche Zeitschrift der
Friedrich-Schiller-Universität Jena, Mathematisch-
Naturwissenschaftliche Reihe, Vol 11, No 3, 1962,
pp 345-350. P100361767
FTD-HT-23-652-67

Comparative Studies of Oogenesis in the Genus
Tilapia (Cichlidae, Teleostei), by Arne V. Kraft,
Hans M. Peters.
GERMAN, per, Zeitschrift für Zellforschung, Vol
61, 1963, pp 434-483.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Dosimetry by Means of Liquids, Glass Materials,
and Crystals, by W. Hanle and A. Scharmann,
13 pp.
GERMAN, per, Zivilschutz, No 1, 1967,
pp 15-20.
ACSI J-3045
ID 2204033967

Chemical and Biological Warfare Agents, by
Parragh & Szabo, 454 pp.
HUNGARIAN, per, A Vesz Es Biologiai Fegyver-
Tisztak Konyvtara, 1964. P100370267-V
FTD-HT-66-481

Scientific
Biological & Medical Sciences (Contd)

Properties of New Surgical Bioplast, by
Ferenc Fazekas, 5 pp.
HUNGARIAN, per, Ujtitok Lapja, Vol 19, No
18, 26 Sept 1967, pp 10-11.
JPRS 43545

Ichthyological Results of the Violante Cruises,
by Decio Vinciguerra.
ITALIAN, per, Annali del Museo Civico di Storia
Naturale di Genova, Vol 18, 1883, pp 554-560.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Eggs, Larvae and Juvenile Stages of the Scombr-
iformes (in part) of the Gulf of Naples, by
Emanuele Padua.
ITALIAN, per, Famiglie Scombridae, Thunnidae,
Gempylidae, Trichiuridae, Istiophoridae, Xiphiidae,
1955, pp 471-521.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Recognition of Granulocyte Sequestration in the
Spleen, by C. Sacchetti.
ITALIAN, per, Minerva Nucl, Vol 9, 1965, pp 207-
219.
HEW-NIH
12-16-67

Isotope Scanning of Parathyroid Tissue: Appli-
cation to a Case of Recklinghausen's Disease
Involving an Unusually Situated Adenoma, by
A. Centi Colella.
ITALIAN, per, Nunt Radiol, Vol 31, 1960,
pp 1349-1360.
*AEC AERE

Genetic and Clinical Study of 5 Cases of Heredo-
familiar Eunuchoidism, by A. Furno.
ITALIAN, per, Riv Pat Nerv Ment, Vol 26, Nos 9/10,
1921, pp 245-284.
HEW-NIH
12-5-67

An Introduction to the Contents of "Practical
Shellfish Haematology", by Senichi Ueda.
JAPANESE, bk, 1964, 16 pp.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Ecological Studies on the Common Squid, *Todarodes Pacificus* Steenstrup, Mainly in the Southwestern Waters of the Sea of Japan, by Mototsugu Hamabe, Torao Shimizu.

JAPANESE, per, Bulletin of the Japan Sea Regional Fisheries Res Laboratory, No 16, 1966, pp 13-53.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Postmortem Changes in Fish Myosins-IV. The Composition and Activity of Myofibrillar Protein, by Taneko Suzuki, Koichi Kanna.

JAPANESE, per, Bulletin of the Japanese Society of Scientific Fisheries, Vol 32, No 7, 1966, pp 590-599.

Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Blood Type of Fish, by Akimi Suzuki.

JAPANESE, per, Bulletin of the Japanese Society of Scientific Fisheries, Vol 33, No 4, 1967, pp 372-381.

*CFSTI TT 67-59077

Classification of the Strains of *Xanthomonas Oryzae* (Uyeda et Ishiyama) Dowson on the Basis of their Virulence Against Rice Plants, by T. Kusaba.

JAPANESE, per, Bulletin of the National Institute of Agricultural Sciences, Series C, No 20, 1966, pp 67-82.

*ACSI J-4154
ID 2253038967

A Method for Rapid Fractional Determination of Decomposition Products of AIP in Fish Flesh, by K. Minoto, Y. Fujii.

JAPANESE, per, Bulletin of the Tokai Regional Fisheries Res Laboratory, No 46, 1966, pp 69-77.

Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

A New Selection Isolation Medium for the *Vibrio* Group (Modified Nakanishi's Medium-TCBS Agar), by T. S. Kobayahi.

JAPANESE, rpt, Byogen Biburio no Atarashii Sentaku Sentaku Bunri Baichi, 1963.
Dept of Navy 5204/NIC 2318

Studies on Sexual Differentiation, by P. Uhlenhuth, T. Kodama.

JAPANESE, per, Kokka Igakukai Zasshi, No 2331, 20 Aug 1914, pp 385-405.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Skin Contamination by Radioisotopes,(4). Pig Skin Contamination by S35, Sb125, Pmk47, T1204 and Po210, by Shingo Tashiro.

JAPANESE, per, Nippon Genshiryoku Gakkaishi, Vol 8, 1966, pp 643-644.
*AEC JAERI

Cold Sterilization Methods, by A. M. Chodakowski.
POLISH, per, Farm Pol, Vol 22, No 1, 1966, pp 21-29.

HEW-NIH
12-7-67

Research on the Influence of Drugs Acting On The Central Nervous System on Certain Biological Parameters. Note IV. The Effect of Sodium Amytal on Hepatic Glutamic-Oxalacetic-Transaminase, by St. Tamasdan, 5 pp.
RUMANIAN, journal, Farmacia, No. 10, Oct 67, pp. 605-607.
JPRS 44,117

Research on the Influence of Drugs Acting On The Central Nervous System on Certain Biological Parameters. Note V. The Effect of Sodium Amytal on Hepatic and Cerebral Pyrophosphatase, by M. Rosetti et al, 7 pp.
RUMANIAN, journal, Farmacia, No. 10, Oct 67, pp. 609-614.
JPRS 44,117

Research on the Influence of Drugs Acting on the Central Nervous System on Certain Biological Parameters, Note III. The Effect of Sodium Amytal on Proteins and on Cerebral Glutamic-Oxalacetic-Transaminase, by I. Feraru, et al. 11 pp.
RUMANIAN, journal, Farmacia, No. 11, Nov 67, pp. 669-677.
JPRS 44,117

On the Disposition of Thyroid Tissue to Metaplasia Under the Influence of Methyl Cholanthere and Endogenous Thyrotropic Hormone, by St. M. Milcu.
RUMANIAN, per, Neoplasma, Vol 7, No 1, 1960, pp 18-25.
HEW-NIH
12-2-67

Scientific
Biological & Medical Sciences (Contd)

Report of the Executive Committee of the Union of Medical Sciences of the Rumanian Socialist Republic, 1962-1966, 26 pp.
RUMANIAN, per, Viata Medicala, No 18, Sept 1967, pp 1225-1243.
JPRS 43528

Yugoslav Policy for the Development of Scientific Research, by Dragisa Maksimovic, 29 pp.
SERBO-CROATIAN, per, Jugoslovenski Pregled, Belgrade, July-Aug. 67, pp. 337-344.
JPRS 43,814

Acute Contagious Diseases, 1964-1966, by Dr. Predrag Dovijanic, 13 pp.
SERBO-CROATIAN, per, Jugoslovenski pregled, Belgrade, No. 9, Sept. 67, pp. 377-380.
JPRS 44,123

Preliminary Results in a Study of Natural Foci of Tularemia, in the Sisak-Gusce-Popavaca Region of Croatia, 11 pp.
SERBO-CROATIAN, journal, Lijecnicki Vjesnik, No. 8, Zagreb, August 67, pp. 591-600.
JPRS 44,159

The Mortality Rate of Cancer in Yugoslavia, by N. Stojkov.
SERBO-CROATIAN, per, Mortalitet od raka, 1967, 75 p.
HEW-NIH
12-20-67

The Evacuation of Injured in Large-Scale Natural and Other Disasters, by Med.Col. Docent, et al, 9 pp.
SERBO-CROATIAN, journal, Vojnosanitetski Pregled, No. 11, Belgrade, Nov 67, pp. 594-597.
JPRS 44,147

Recommendations for Therapy of Persons Exposed to Sublethal and Lethal Radiation. 9 pp.
SERBO-CROATIAN, journal, Vojnosanitetski Pregled, No. 11, Belgrade, Nov 67, pp.598-600
JPRS 44,166

Clinical and Therapeutic Considerations of Gastroenteritis of Bacterial Etiology, 13 pp.
SPANISH, per, Revista Cubana de Pediatria, Vol 39, No 1, 28 Feb 1967, pp 85-97.
JPRS 43960

Scientific
Biological & Medical Sciences (Contd)

Salmonella Meningitis, 12 pp.
SPANISH, per, Revista Cubana de Pediatria, Vol 39, No 1, 28 Feb 1967, pp 99-108.
JPRS 43960

Observations on Potentially Pathogenic Intestinal Flora in 289 Normal Children, 14 pp.
SPANISH, per, Revista Cubana de Pediatria, Vol 39, No 1, 28 Feb 1967, pp 111-122.
JPRS 43960

Medicinal Plant Research and the Development of new Drugs of Vegetable Origin in the Ukraine, by Yu. H. Borisyuk, N. P. Maksytina, 42 pp.
UKRAINIAN, per, Farmatsevtichnyi Zhurnal, Vol 22, No 5, 1967, pp 6-38.
JPRS 43984

Research Related to the Safeguarding of Medicine and Medical Equipment in Vietnam, by Dang Hanh Khol, 21 pp.
VIETNAMESE, per, Duoc Hoc, No 5 & 6, May and June 1967, pp 2-8 and 1-6, respectively.
JPRS 43577

New Diets for Children, by Dr. Bui Van Ba, 9 pp.
VIETNAMESE, per, Y-hoc Thuc-hanh, No 10, Oct 1967, pp. 7-10.
JPRS 43735

Eliminating Malaria in DDT-Sprayed Areas, by Dr. Nguyen Tho Vien, 8 pp.
VIETNAMESE, per, Y-hoc Thuc-hanh, No 10, Oct 1967, pp 29-32.
JPRS 43735

Chemistry

Contribution to the Setting-up Standards for Inert Radioactive Gases, by N. G. Goussev, O. A. Kochetkov.
RUSSIAN, rpt, 23 pp.
AEC-BNL-tr-141

Vaporization fo the Actinides and Their Compounds, II. Vaporization of Some Compounds of Thorium, by I. Krivy.
RUSSIAN, rpt, UJV-1738.
AEC-LA-tr-67-51

Scientific
Chemistry (Contd)

Assessment of Analytical Records in Spectral Laboratories, by V. S. Mishchenko.
RUSSIAN, per, Dopovidi Akad. nauk Ukr S R, Vol 6, 1966, pp 791-794.
NLL Ref: RTS 4037

Increasing the Sensitivity in the Detection of Rare-Earth Elements by Chemical Reactions, by O. A. Kul's'ka & L. A. Orlova.
UKRAINIAN, per, Dopovidi Akad. Nauk UkrRSR, Series B, No 6, 1967, pp 528-531.
HB 7295

Oxygen in Silicon, by S. S. Surkova.
RUSSIAN, bk, Fizicheskiye Svoystva Osobo Chistyykh Metallov i Poluprovodnikov, 1966, pp 118-124.
*NASA TT F-11,556

Organophosphorus Substances, 3 pp.
RUSSIAN, pamphlet, Fosfororganicheskiye Veshchestva, 1967, pp 1-32.
JPRS 43702

Distillation of Wood Tars and Their Products, Report No 4. Calculation of Curves of One-Stage Evaporation of Wood Tars, by A. W. Bagaev.
RUSSIAN, per, Gidrolizn. i lesokhim. promysh., Vol 19, No 5, 1966, pp 13-15.
NLL Ref: RTS 3830

Mass Spectrometric Investigation of the Composition of Vapor Over the TiC-C and ZrC-C Systems, by T. S. Starostina.
RUSSIAN, per, Izv Ak Nauk SSSR, Neorg Mater, Vol 3, 1967, pp 727-728.
*AEC LASL

Organic Chemist A. Ye. Arbusov Honored, by Gil'm Kamy, 6 pp.
RUSSIAN, per, Izvestiya VUZov, Khimiya i Khimicheskaya Tekhnologiya, Vol 10, No 8, 1967, pp 951-954.
JPRS 43741

The Individual Components in Gasoline Fractions as Determined by Gas-Liquid Chromatography, By E. K. Bryanskaya, V. A. Zakharenko.
RUSSIAN, per, Izv Vysokikh Uchebn Zavedenii. Neft i Gaz, Vol 9, No 6, 1966, pp 45-48.
*FTD-HT-23-76-68

Scientific
Chemistry (Contd)

Phase Equilibrium Between Liquid and Vapour in the Ternary System Ethanol-Water-Propanol, by B. D. Metyushev.
RUSSIAN, per, Izvest. Vyssh. ucheb. zav. pishch. tekhn., Vol 4, 1963, pp 123-126.
NLL Ref: RTS 4065

Methods of Obtaining Diphenic Acid, by A. A. Dolgalev & N. M. Kamakin.
RUSSIAN, per, Khimicheskaya promysh., Vol 9, 1966, pp 657-661.
NLL Ref: RTS 4055

Production of Reactive Syrups of Aromatic Polyamides, Suitable for Making Fibres, by V. M. Savinov & L. B. Sokolov.
RUSSIAN, per, Khim. volok., Vol 4, 1965, pp 22-25.
NLL Ref: RTS 3933

On some Reaction Products of Phenylhydrazones with Trichlorinated Phosphorus, by N. P. Ignatova, N. N. Mal'nikov, 5 pp.
RUSSIAN, per, Khimiya Geterotsiklicheskiikh Soyedineniy, No 4, 1964, pp 753-755.
JPRS 43714

Esters of Phosphoric and Thiophosphoric Acids with some Derivatives of Azoles, by B. A. Arbusov, A. R. Vil'chinskaya, 5 pp.
RUSSIAN, per, Khimiya Geterotsiklicheskiikh Soyedineniy, No 4, 1967, pp 600-602.
JPRS 43714

Soviet Research in High-Energy Chemistry, 14 pp.
RUSSIAN, per, Khimiya Vysokikh Energiy, Moscow, Vol. 1, No. 6, 1967, pp. 515-523.
JPRS 44,048

Soviet Organic Chemist Martin Israilevich Kabachnik, by T.A. Mestryukovaya and R.I. Goryachevaya, 65 pp.
RUSSIAN, bk, Martin Israilevich Kabachnik, Nauka Publishing House, Moscow, 1967, pp. 3-81.
JPRS 44,130

The Correlation Between the Chemical Structure and Physiological Activity of Compounds of the 2, 4-D Type, by Ya. N. Ivashchenko & S. D. Moshchitskii.
RUSSIAN, per, Nauch.tr. Ukrain. Nauch.-issl. inst. fiziol. rast., Vol 23, 1962, pp 205-210.
NLL Ref: RTS 4103

Scientific
Chemistry (Contd)

Fundamentals of Quantitative Theory of Organic Reactions, by V. A. Pal'm.
RUSSIAN, bk, Osnovy Kolichestvennoi Teorii Organicheskikh Reaktsiy, 1967.
Plenum Press

Utilisation of Cobalt as a Fertiliser for Fish Ponds, by V. V. Kaval'skii, R. V. Krynova.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966, pp 25-27.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

A New Rare Material for the Production of Sodium Alginate, by A. Tsapko.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966, pp 65-66.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

The Laboratory for Antibiotics and Microbiology Change in Microflora During Cold Storage of Fish, by L. N. Smolina.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanisation of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Desalination of Water and its Importance for the Water Supply of Rural Populated Places of the Uzbek SSR, by D.G. Antman and I.S. Ostrovskiy, 7 pp.
RUSSIAN, journal, Stroitel'stvo i Arkhitektura Uzbekistana, Tashkent, No. 9, Sept. 67, pp. 25-27.
JPRS 43,837

Thermal Distillation of Sea Water. (Fundamentals of the Theory of Marine Evaporators), by V. F. Kovalenko.
RUSSIAN, bk, Termicheskoe Opresnenie Morskoj Vody Elementy Teorii Morskikh Isparitelei, 1966, pp 1-230.
AEC-tr-6893

Electrical Conductivity of Solid Oxides. Part II. Lanthanum Oxide-Calcium Oxide System, by S. P. Pal'guyev, Z. S. Volobenkova.
RUSSIAN, per, AN SSSR, Ural'skij Filial, Institut Elektrokhimii, Trudy, No 9, 1966, pp 133-136.
*FTL-R-23-87-68

Scientific
Chemistry (Contd)

The Study of the Electrolytic Properties of NaCl and KCl Solutions in Steam of High and Supercritical Parameters by the Electrical Conductivity Measurement Method, by Z. S. Belova, B. P. Golubev.
RUSSIAN, per, Trudy Mosk Energ Inst, Vol 48, 1963, pp 211-218.
AEC-AL-Trans-249

Distribution of Alcohol and its By-Products in an Indirect Action Rectifying Column, by V. G. Artyukhov & A. S. Egorov.
RUSSIAN, per, Tr. Ukr. nauch.-issled. inst. spir. i lik. vod. prom., Vol 7, 1962, pp 41-54.
NLL Ref: RTS 4069

Titrimetric Method for the Determination of Glucose Using Glucose Oxidase, by N. V. Pokrovskaya.
RUSSIAN, per, Trudy Vses. nauch.-issled. inst. piv. vin. prom., 1965, pp 66-75.
NLL Ref: RTS 4104

The Applicability of Thin-Layer Electrodes for the Study of Oxidation-Reduction Systems, by M. S. Zokharevskii & K. M. Vasilenko.
RUSSIAN, per, Uchenye zapiski Leningrad gosudarst. univ. Ser. khim. nauk, Vol 18, 1959, pp 48-56.
NLL Ref: RTS 4033

Use of the Similarity Theory in the Gamma Method of Determining Density, by V. A. Artzibashev.
RUSSIAN, per, Vop Rud Geofiz, Gos Geol Kom SSSR, No 5, 1965, pp 88-95.
AEC-tr-6899

Aerosol Treatment, by A. Leakin, 7 pp.
RUSSIAN, per, Zashchita Rasteniy ot Vreditel'nykh Bolesnykh, No 6, 1965, pp 26-28. P100348267
FTL-R-57-446

Internal Conversion Coefficients of Gamma Radiation in the K and L Shells, by L. A. Sil'v, I. B. Band.
RUSSIAN, per, Zh Eksp Teor Fiz, Vol 31, 1956, pp 134-136.
AEC-BNL-tr-122

Kinetics of Combustion of Mn, Si and S in Molten Fe, by A. M. Samarin.
RUSSIAN, per, Zh Fiz Khim, Vol 22, 1948, pp 565-574.
*AEC ANL

Electrosynthesis of O₃. I. Kinetics of the Synthesis of O₃ Under Flow Conditions, by Yu. V. Filippov, Yu. M. Emel'yanov. RUSSIAN, per, Zh Fiz Khim, Vol 35, 1961, pp 407-415.
AEC-ANL-Trans-522

Electrosynthesis of O₃, XI, Method for Connecting Ozonizers, by Yu. V. Filippov, V. P. Vendillo. RUSSIAN, per, Zhurnal Fiz Khim, Vol 40, 1966, pp 2337-2340.
AEC-ANL-Trans-521

An Apparatus for the Differential Thermal Analysis, by R. N. Isayev. RUSSIAN, per, Zhurnal Fizicheskoy Khimii, Vol 41, 1967, pp 2398-2399
*NASA TT F 11,460

Synthesis and Properties of New Dimethylamino Compound, by A. V. Khromov-Borisov, M. L. Indenbom, 6 pp. RUSSIAN, per, Zhurnal Organicheskoy Khimii, Vol 3, No 9, Sep 1967, pp 1684-1686.
JPBS 43720

Polarograms of Alkali Metal Nitrite Melts, by O. N. Razumovskaya, P. I. Protsenko. UKRAINIAN, per, Ukr Khim Zh, Vol 33, 1967, pp 261-264.
AEC-AI-Trans-254

The Status of Chemistry and Chemical Technology in Communist China, 52 pp. CHINESE, bk, 1967. P921411167
FTD-MHR-67-28

A New Technique in Production of Synthetic Ammonia. CHINESE, per, Hua-Hsueh Shih-Chieh, Vol 20, No 6, 1966, pp 275-278.
*FTD-HT-23-32-68C

Influence of Microsegregation Impurities on the Thermoelectric Characteristics of Bi₂Te₃, by Lo Chan-Tzi. CHINESE, per, Wu-Li Hsueh Pao, Vol 22, 1966, pp 515-524.
*AEC AERE

Electronic State of Cerium in the 1:2 Compounds with the Elements of the Eighth Group of the Periodic Table, by G. I. Olcese. FRENCH, per, Boll Sci Fac Chim Ind Bologna, Vol 24, 1966, pp 165-173.
AEC-IS-Trans-70

Study of the Catalytic Combustion of Graphite, by H. Amariglio, Z. Duval. FRENCH, per, Carbon, Vol 4, 1966, pp 323-332.
AEC-BNWL-tr-23

Kinetic Study of the Fluorination by Fluorine of Some Compounds of Uranium and Plutonium, by Gerard Vandebussche. FRENCH, rpt, CEA-R-2859, 140 pp.
AEC-ANL-Trans-515

Corrosion of Niobium by Circulating Liquid Sodium at 400 to 600°C, by Jacques Sannier, Louis Champeix, 12 pp. FRENCH, rpt, CEA-R-3028, Oct 1966.
P911006168
AEC ORNL-TR-1832

Existence and Structure of Rare Earth Monocarbides. Study of Their Magnetic Properties at Low Temperatures, by Robert Lallement. FRENCH, rpt, CEA-R-3043, 90 pp.
AEC-ANL-Trans-517

Study of the Reactions ClF₃-UO₂F₂ and ClO₂F-UO₂F₂, by Michel Luce and Oliver Hartmanshenn, 19 pp. FRENCH, rpt, CEA-R 3210, Mar 1967.
P911410167
AEC ANL-TRANS-524

A Photo-E.M.F. Effect in Cs₃Sb Layers, by N. Nanav. FRENCH, per, Comptes Rendus Acad Bulg Sci, Vol 15, 1962, pp 357-359.
*AEC AERE

Chemical Forms of Sulphur-37 Produced by the Reaction ³⁷Cl (n,p) ³⁷S in Aqueous Solutions of Lithium Chloride, Sodium Chlorate and Sodium Perchlorate, by J. P. Meyer, J. P. Adloff. FRENCH, per, Radiochim Acta, Vol 7, 1967, pp 15-19.
*AEC AERE

Isothermal Young's Modulus of UO₂ and UO₂-Mo Cermets, by N. Claussen. GERMAN, per, Ber Deut Keram Ges, Vol 44, 1967, pp 267-270.
*AEC AERE

The Radiation Chemical Conversion of Hydrocarbons: The Oxidation of Methane, by H. Luther and D. Boenisch, 25 pp. GERMAN, per, Brennst. Chem, Vol 47, No 12, 1966, pp 375-383.
P911410067
AEC NP-TR-1579

Desulfurization of Flue Gases Importance and Practical Possibilities, by F. Johsrich.
GERMAN, per, Brennst-Waerme-Kraft, Vol 14, 1962, pp 105-115.
AEC-ANL-Trans-520

The Pumping Speed for Carbon Dioxide by the Action of a Surface Cooled by Liquid Nitrogen, by Georg Saenger.
GERMAN, rpt, Deutsche Versuchsanstalt fur Luft- und Raumfahrt E. V., Institut fur Raumsimulation, Jul 1967, 28 pp.
*NASA TT F-11,547

Ternary Oxides of 3 - 7 Valent Technetium with Alkalies, by B. Kanellakopoulos.
GERMAN, rpt, KFK-197, Feb 1964, 67 pp.
*AEC ANL

Polyoxides of Four and Seven Valent Technetium with Alkaline Earths, by M. Wassilopoulos.
GERMAN, rpt, KFK-341, July 1965.
*AEC ANL

Acidimetric Determination of Free Acid and Uranium in Nitric Acid Solutions in the Presence of Plutonium IV, by D. Thiele, W. Baehr.
GERMAN, rpt, KFK-503, 13 pp.
AEC-EURFNR-280

The Scadium-Carbon System, Rpt No 1, by H. Rassauerts.
GERMAN, per, Monatsh Chem, Vol 98, 1967, pp 460-468.
AEC-LA-tr-67-78

Indication Assessment and Dosimetry in Endolymphatic Therapy with ¹³¹I-Lipiodol, by K. zum Winkel.
GERMAN, per, Strahlentherapie, Vol 133, 1967, pp 481-498.
*AEC AERE

The Polycondensation of α -Hydroxyalkyl-Ferrocenes, by A. Wende, H. J. Lorkowski, 7 pp.
GERMAN, per, Plaste und Kautschuk, Vol 10, No 1, 1963, pp 32-33. PL00373257
FTD-RT-66-534

Dissociation Voltage, Limiting Current Density and Conductivity of Aluminum Chloride Containing Melts, by H. Grother.
GERMAN, per, Zeit Elektrochem, Vol 53, 1949, pp 363-369.
AEC-AI-Trans-257

The Solubility of Carbon in Molybdenum, Tungsten and Rhenium, by Erich Gebhardt.
GERMAN, per, Zeitschrift fur Metallkunde, Vol 57, 1966, pp 732-736.
*NASA TT F-11,550

The Detection of Defined Reversible Associations of Acridine Orange by Absorption and Fluorescence Measurements in Aqueous Solution, by Valentin Zanker.
GERMAN, per, Zeit Phys Chem, Vol 199, 1952, pp 225-258.
AEC-ANL-Trans-525

On the Uranium-Hydrogen System and the Kinetics of Uranium Hydride Formation, by E. Wicks and Kl. Otto, 39 pp.
GERMAN, per, Z. Phys. Chem, Vol 31, 1962, pp 222-248.
P911408867
AEC LA-TR-67-82

Voltammetry of Nitrite-Ion in Alkaline Intrate Melts. The System NO₂/NO, by Giuseppe Giorgio Bombi, Riccardo Freddi.
ITALIAN, per, Ann Chim, Vol 56, 1966, pp 759-766.
AEC-AI-Trans-256

Furfuryl Alcohol Resins
I. Initial Condensation Products of Furfuryl Alcohol, by Y. Hachihama and T. Shono, 6 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 55, 1952, pp 260-262.
P911387667
AEC LA-TR-67-83

Furfuryl Alcohol Resins
3. Reaction of Furfuryl Alcohol with Maleic Anhydride, by T. Shono and Y. Hachihama, 8 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 56, 1953, pp 259-261.
P911388967
AEC LA-TR-67-85

Average Molecular Weight and Room-Temperature Curing of the Precondensate, by T. Shono and Y. Hachihama, 7 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 56, 1953, pp 724-726.
P911388667
AEC LA-TR-67-86

Annual Report of the Japanese Association for Radiation Research on Polymers. 240 pp.
JAPANESE, per, Nippon Hoshasen Kobunshi Kenkyu Kyokai Jempo, Vol 7, 1965-1966. P9pp005168-V
AEC-tr-6908

Explosive Reaction between Irradiated Liquid Nitrogen and Oxygen by Zenichiro Kuri, Shoji Shida, 7 pp.
JAPANESE, per, Nippon Isotope Kaig, Hobun-shu, No 4, 1961, pp 284-286.
P911408467
AEC ORNL-TR-1774

New Colorimetric Methods Using Thiocyanates IV. Determination of Traces of Bromide in the Presence of Chloride and Iodine, by I. Iwasaki, S. Utsune, 25 pp.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 80, No 7, 1959, pp 744-749.
P911380767
AEC NP-TR-1574

Effects of Light and Darkness on Some Organic Compounds in Lemna Perpusilia, by Ching-San Chen, Masateru Miyano.
JAPANESE, per, Nippon Nogeikagaku Kaishi, Vol 40, 1966, pp 161-164.
*AEC JAERI

Effect of Linear Energy Transfer on the Radiolysis of Methanol, by M. Imamura, 18 pp.
JAPANESE, per, Riku Gaku Kenkyusho Hokoku, Vol 40, No 3, 1964, pp 176-184.
P911390467
AEC NP-TR 1577

New Contributions to the Spectrographic Determination of Impurities in Uranium Materials by the Method of Fractional Distillation with Carrier, by C. Capdevila.
SPANISH, per, An Real Soc Espan Fis Qum Ser B, Vol 63, 1967, pp 155-168.
AEC-ANL-Trans-514

Earth Sciences & Oceanography

The Accumulation of Artificial Radionuclides on the Earth's Surface in the Region of Leningrad in 1954-1965, by L. I. Gedeonov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Content of Strontium-90 in the Total Fallout on the Territory of the Ukrainian SSR in 1963-1966, by I. E. Mukhin.
RUSSIAN, rpt, 1967.
*AEC HASL

Strontium-90 in Fresh-Water and Salt-Water Bodies of Water, by G. G. Polikarpov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Distribution of Strontium-90 and Cesium-137 in the Profile of Soils Under Natural Conditions in 1964, by L. I. Gedeonov.
RUSSIAN, per, 1967.
*AEC HASL

Results of Determination of Strontium-90 in Waters of the Indian Ocean in 1962, by N. I. Popov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Strontium-90 and Cesium-137 Content in the Waters of the Atlantic Ocean and Its Seas in August-November 1963, by L. I. Gedeonov.
RUSSIAN, per, 1967.
*AEC HASL

The Strontium-90 and Cesium-137 Content in the Waters of the Atlantic Ocean and Its Seas in April-July 1964, by L. I. Gedeonov.
RUSSIAN, rpt, 1967.
*AEC HASL

Underwater Cameras, by A. A. Rogov.
RUSSIAN, per, AN SSSR, Okeanograficheskaya komissiya, Sektsiya prodvodnykh issledovaniy, Rezultaty morshikh prodvodnykh issledovaniy, Moscow, Izd-vo Nauka, 1965, pp 106-119.
*FTD-HT-23-129-68

Underwater Photography in Murky Water, by V. Ye. Dohos & A. V. Ktyer.
RUSSIAN, per, AN SSSR, Okeanograficheskaya komissiya, Sektsiya prodvodnykh issledovaniy, Rezultaty morshikh prodvodnykh issledovaniy, Moscow, Izd-vo Nauka, 1965, pp 120-127.
*FTD-HT-23-129-65

Use of Underwater Stereophotogrammetric Surveying to Investigate the Ice Cover, by V. S. Loskohilov.
RUSSIAN, per, AN SSSR, Okeanograficheskaya komissiya, Sektsiya prodvodnykh issledovaniy, Rezultaty morshikh prodvodnykh issledovaniy, Moscow, Izd-vo Nauka, 1965, pp 128-139.
*FTD-HT-23-129-68

Free Amino Acids in the Soil, by T. M. Ivashkevich, et al.
RUSSIAN, per, Doklady Akad. Nauk BSSR, Vol 6, No 8, 1962, pp 523-526.
*NASA-TT F-11498

Telluric Currents in the Ocean and Magnetic Declination, by V. V. Shuleykin.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 119, No 2, 1958, pp 257-260.
*ACIC TC-1377

Theoretical Possibilities of Infrared Earth Images in the Study of Air and Sea Dynamics, by V.F. Zhvalev, et al, 13 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Fizika Atmosfery i Okeana, Vol III, No. 11, Moscow 67, pp. 1187-1195.
JPRS 44,172

Influence of Finite Earth Conductivity on the Directivity Patterns of Vertical Antennas, by G. M. Krylov.
RUSSIAN, per, Leningrad, Universitet, Problemy difraktsii i rasprostraneniya voln. Difraktsiya i rasprostraneniye voln, Nos 5-6, 1966, pp 139-143.
*FTD-HT-23-118-68

Distribution Patterns of the Deep-Sea Prawn (*Pandalus borealis* Kr.) in the Bering Sea and Gulf of Alaska, by B.G. Ivanov, 12 pp.
RUSSIAN, per, Okeanologiya, Vol 7, No. 5, 1967, pp. 920-926.
JPRS 44,174

Application of Aeromethods for Investigation of the Ocean, by V. G. Zdanovich & I. V. Semchenko, 661 pp.
RUSSIAN, bk, Primeneniye Aerometodov Dlya Issledovaniya Morya, 1963.
P100370867-V
FTD-MT-64-347

On the Study of the Nutational Migration of the Icelandic Low, by I. V. Maksimov & R. V. Abramov.
RUSSIAN, per, Problemy arkt. i antarkt., Vol 23, 1966, pp 14-19.
NLL Ref: 5828.4F (7025)

Sound-Reflecting Capacity of Pelagic and Benthic Fish, by Ye. V. Shishkova, 14 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, Vol 36, No. 10, 1960, pp. 56-63.
JPRS 44,174

Hydrometeorological Handbook for the Fishing Industry, by V. V. Seryi.
RUSSIAN, per, Rybnoe Khoz., Vol 42, No 2, 1966, pp 92-93.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Problems in Search for Squid and its Catch, by A.A. Baral, 6 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, No. 9, 1967, pp. 39-41.
JPRS 43,812

Arctic and Antarctic Scientific Research Institute, by L. P. Kuperov.
RUSSIAN, per, Sovetskaya Antarkticheskaya Ekspeditsiya, Informatsionnyy Byulleten', No 58, 1966, pp 53-55.
*FTD-ET-23-61-68

Toxicology of the Rare Metals, by Z. I. Izrael'son.
RUSSIAN, bk, Toksikologiya Redkikh Metallov, Gosudarstvennoe Izdatel, Meditsinskoi Literatury, 1963, pp 1-224.
AEC-tr-6710

Telemetry in Pits of the Lugansk Economic Region, by M. A. Goldin & N. G. Flyushchov.
RUSSIAN, per, Ugol', Vol 1, 1960, pp 11-16.
NLL Ref: 9022.66 (1907)

Water Masses of the Sea of Okhotsk, by K. V. Morozhkin, 98 pp.
RUSSIAN, bk, Vodnyye massy Okhotskogo morya, 1966, pp 1-66.
JPRS 43942

On the Theory of the Helium Method of Prospecting for Deposit of Radioactive Elements, by A. G. Grammakov, V. S. Glebovskaya, et al.
RUSSIAN, per, Vop Rud Geofiz, Gos Geol Kom SSSR, No 5, 1965, pp 3-19.
AEC-tr-6901

Estimation of the Effect of Emanation from Radioactive Ores on the Results of Gamma-Assaying of Ores in their natural Deposits, by A. N. Bolotnikov.
RUSSIAN, per, Vop Rud Geofiz, Gos Geol Kom SSSR, No 5, 1965, pp 52-62.
AEC-tr-6900

Attempt to Use the Gamma-Ray Reflection Method for Quantitative Determination of Iron in Underground Boreholes in the Ordzhonikidze Mine in the Krivoy Rog Basin, by A. P. Pshenichniy, G. F. Komissarzhenkaya. RUSSIAN, per, Vop Rud Geofiz, Gos Geol Kom SSSR, No 5, 1965, pp 10-122.
AEC-tr-6904

Nomograms for the Calculation of the Concentration of Radioactive Elements in Rocks, by A. B. Matveyev. RUSSIAN, per, Vop Rud Geofiz, Gos Geol Kom SSSR, No 5, 1965, pp 131-133.
AEC-tr-6903

Application of the Quartz Magnetometer for Checking Helmholtz Coils, by Yu. G. Mekhey. RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 72, 1963, pp 85-93.
PI00372267-V
FTD-MT-65-408

The Main Characteristics of the Geologic Structure of China: Preliminary Conclusions, by T. K. Huang. CHINESE, per, Acta Geologica Sinica, Vol 40, No 1, 1960, pp 1-37 and one map.
ACIC TC-1262

Pamphlet Titled "Ustav Geodesic a Kartografic" (Describes the Program, Methods and Output of the Czech Institute of Geodesy and Cartography in Prague. CZECH, per, Institute of Geodesy and Cartography, pp 1-18.
*FTD-HT-23-1537-67

Use of Reverse Combinations of Detectors to Suppress Multiply Reflected Waves, by Pi Ts'ai, Ting-Chang, Wang. CHINESE, per, Ti oh'iu wu li hsueh pao, Vol 14, No 4, 1965, pp 227-241.
*FTD-HT-23-39-68C

Astrogeodetic and Gravimetric Work During the Construction of a Laboratory for Inertial Systems, by R. Sigl. GERMAN, per, 1967, 41 pp.
*ACIC TC-1378

Use of Raw Materials in Mining, by Erich Schaffhirt, 6 pp. GERMAN, per, Bergbautechnik, Vol 17, No 11, Nov 1967, pp 573-575.
JPRS 43920

The Determination of Geoid Undulations from Free-Air Anomalies, by K. Arnold. GERMAN, per, Veroffentlichungen des Geodatischen Instituts in Potsdam, No 12, 1959, pp 5-50.
*ACIC TC-1380

Numerical Examples to the Rigorous Theory of the Figure of the Earth, by K. Arnold. GERMAN, per, Veroffentlichungen des Geodatischen Instituts in Potsdam, No 16, 1960, 66 pp.
*ACIC TC-1379

On the Theory of the Wiechert Models, by Karl Ledersteger. GERMAN, per, Zeitschrift fur Geophysik, Issue 5/6, 1966, 8 pp.
ACIC TC-1297

The Absolute Adjustment of the Deflection of the Vertical and the Geodetic Connection of the Continental Networks. HUNGARIAN, per, Acta Geodet Geophys et Montanist Acad Sci Hung, Vol 1, No 1-2, 1966, pp 225-240.
ACIC TC-1296

The Importance of the Algyo Oil Field, by Akos Ban, 14 pp. HUNGARIAN, per, Banyassati Lapok, Vol 100, No 10, Oct 1967, pp 697-702.
JPRS 43993

The Geological Structure in Algyo, by Gyorgy Szalanczy, 8 pp. HUNGARIAN, per, Banyassati Lapok, Vol 100, No 10, Oct 1967, pp 703-707.
JPRS 43993

Drilling Problems at Algyo, by Ferenc Patsch, 6 pp. HUNGARIAN, per, Banyassati Lapok, Vol 100, No 10, Oct 1967, pp 708-710.
JPRS 43993

Development Trends in the Great Hungarian Plain, by Bela Varga, 14 pp. HUNGARIAN, per, Banyassati Lapok, Vol 100, No 10, Oct 1967, pp 711-716.
JPRS 43993

New Method for Determining Datum Marks for Triangulation, 3 pp. HUNGARIAN, per, Huszaki Elet, No. 23, Budapest, 16 Nov 67, p. 7.
JPRS 43,706

Magnetic and Gravimetric Studies in Moravia, by R. Behounek.
HUNGARIAN, per, Sbornik Ustredniho ustavu Geologickoho, Vol 23, 1956, Geological Series, No 1-2, 1967, pp 299-319 + 2 Tables.
*ACIC TC-1177

Uranium Resources of Japan. The Present State of Prospecting and Development, and the Future Aspect, by Motoo Sato.
JAPANESE, per, Japan Sci Technol, Vol 6, No 12, 1965, pp 6-13.
*AEC JEARI

Aeromagnetic Surveying of the Iron Deposits in Central Bosnia, by Slobodan Vukasinovic.
POLISH, per, Geoloski Glasnik, Issue No 10, 1964, pp 275-285, and one map.
*ACIC TC-1374

Development of Geodetic and Cartographic Technology in Work of the Central Administration of Geodesy and Cartography, 1945-1965, by J. Pawlowski.
POLISH, per, Przeglad Geodezyjny, No 9, 1965, pp 356-359.
*FTD-HT-23-52-68C

Analytical Aero-Triangulation, by Zbigniew Sitek, 13 pp.
POLISH, per, Przeglad Geodezyjny, Vol 37, No 9, 1965, pp 374-377. P100364467
FTD-HT-66-389

The Anomalous Magnetic Field of Macedonia, and its Connection with Geological Features of the Country, by Slobodan Vukasinovic.
POLISH, per, Trudovi na Geoloskiot Zavod na Socijalisticka Republika Makedonija, Issue No 10, 1963, pp 185-216 and 6 maps.
*ACIC TC-1375

Geophysical Data Concerning the Geological Structure of the Basement of the Northern Area of the Danube Delta and the Origin of Heavy Minerals in the Marine Sands of the Black Sea Shoreline, by S. Airinei, A. Pricajan.
RUMANIAN, per, Pari de Seama ale Sedintelor, Vol LI/2, 1963-1964, pp 103-117.
*ACIC TC-1241

Patterns and Statistical Relationships Concerning the Terms of the Magnetic Anomaly in the Subcarpathians of Eastern Muntenia, by S. Airinei.
RUMANIAN, per, Prospectiuni Geofizice, Series D, No 5, 1966, pp 57-92 and 3 Charts.
*ACIC TC-1369

Values of Geomagnetic Elements H, I, Z, and F in Ardeal and Banat for 1960.0, by G. Atanasiu, T. Nestiamu.
RUMANIAN, per, Studii si Cercetari de Geologie, Geofizika, Geografie, Geophysica Series, Vol 3, No 1, 1965, pp 79-97 and 2 charts.
*ACIC TC-1376

Geology of Cuba, 207 pp.
SPANISH, bk, Geologia de Cuba, Cuban Institute of Mineral Resources, Havana, 1964, pp. 1-224.
JPRS 32,325

Support of Geo-Topographic Activities by Our Journal, by Constantin Tudor.
SPANISH, per, Revista de Geodesia si Organizarea Teritoriului, No 1, 1967, pp 20-26.
*ACIC TC-1311

Principle of Zoning and System of Unit Division Used in Natural Geographic Zoning of North Vietnam, by Nguyen Duc Chinh and Vu Tu Lap; 10 pp.
VIETNAMESE, per, Tap San Sinh Vat-Dia Hoc, Feb 1967, pp 38-43.
JPRS 43384

Integrated Natural Geographic Zoning and Boundaries, by Le Trong Tuc, 5 pp.
VIETNAMESE, per, Tap San Sinh Vat-Dia Hoc, 1967, pp 44-47.
JPRS 43384

The Distribution and Continuity of Basic Rocks in the Part of the Vardar Zone Between Gevgelija and Pristina Based on the Data of Aeromagnetic Survey, by Slobodan Vukasinovic.
YUGOSLAVIAN, per, Geoloski Anali Balkanskoga Poluostrva, Vol 32, pp 21-28 and one Map.
*ACIC TC-1372

Contribution to the Knowledge of Geological-Tectonic Relationships Between the Podvis and Dobra Sreca Mines Based on Geophysical Tests, by M. Mladenovic.
YUGOSLAVIAN, per, Geoloski Vjesnik, No 5-7, 1951-1963, pp 65-77.
*ACIC TC-1371

Application of Magnetic Method in Exploration of Thorium-Uranium Bearing Vein Rocks in Salecka Mountain Area, by Stanislaw Vlaso.
YUGOSLAVIAN, per, Savezna Komisija za Nuklearnu Energiju, Zavod za Nuklearne Sirovine, Sektor za Istrazivanje Nuklearnih i Drugih Mineralnih Sirovina, No 2, Nov 1963, pp 25-35.
*ACIC TC-1370

Geology of the Territory of Banat on the Basis of the Latest Geological Investigations and Drillings, by D. Nikolic and D. Simin.
YUGOSLAVIAN, per, Vestnik Zavoda za Geoloska i Geofizicka Istrazivanja NR Srbije, Vol 17, 1959, pp 47-59.
*ACIC TC-1373

Sci-Earth Sci

Electronics & Electrical Engineering

Dynamic Programming Used in Optimizing Fishery Systems, by V.V. Menshutkin and Yu. Ya. Kislyakov, 6 pp.
RUSSIAN, unidentified source, pp. 79-81.
JPRS 43,812

High-Current Pulsed Electron Accelerator, by E. A. Abramyan.
RUSSIAN, rpt, 1966.
*AEC AERE

Transformer-Based High-Current Accelerator, by E. A. Abramyan.
RUSSIAN, rpt, 1966.
*AEC AERE

Varieties of Glow Discharge by B. N. Klyarfel'd and L. G. Fuseva, 10 pp.
RUSSIAN, rpt, Conf 650 806, 24 Aug 1965.
P911006568
AEC NP-TR-1443

Punched-Tape Data Input Unit with Circuitual Conversion of Numbers, by Yu. A. Makhmudov & N. B. Bekir-Zade, 11 pp.
RUSSIAN, per, Akademija Nauk Azerbaydzhanskoy SSR, Voprosy Vychislitel'noy Matematiki i Vychislitel'noy Tekhniki, Vol 3, 1965, pp 161-170.
P100336867
FTD-HT-66-795

Handbook on the MALGOL-a Translator and its Use, by M. Kotli, A. Viyl.
RUSSIAN, per, AN EstSSR, Institut Kibernetiki, Programy Dlya ETSVM, Vol 5, 1966, 177 pp.
*FTD-HT-23-68-68

Magnetic Relaxation of Nuclei in Semiconductors and Semimetals in a Quantizing Magnetic Field, by G. Ye. Gurenishvili & G. R. Khutsishvili.
RUSSIAN, per, AN GRUZSSR Sb. Elektron. i ion. protsessy v tverd. telakh, Tbilisi, Metsniereba, No 2, 1965, pp 72-81.
*FTD-HT-23-1529-67

High-Speed Extremum Regulator Working Per Method of Random Search, by L. A. Rastrigin & L. V. Sytenko, 22 pp.
RUSSIAN, per, AN LATSSR, Institut Elektroniki i Vychislitel'noy Tekhniki, Avtomatika i Vychislitel'naya Tekhnika, Vol 5, No 6, 1963, pp 237-255.
P100370967
FTD-MT-24-94-67

Adder and Logic Elements Using Neuristors, by V. G. Fil'mov.
RUSSIAN, per, AN LatSSR, Institut Elektroniki i Vychislitel'noy Tekhniki Avtomatika i Vychislitel'naya Tekhnika, No 14, 1966, pp 93-99.
*FTD-HT-23-84-68

System of Controlling Azimuthal Instruments with the Aid of a Digital Arithmetical Machine, by Yu. B. Arkhangel'skiy, V. A. Myasnikov, 13 pp.
RUSSIAN, per, AN SSSR, Institut Elektromekhaniki, 1965, pp 128-136.
P100373167
FTD-HT-66-451

Computer for a Marine Gravimeter with an Optical-Mechanical Converter, by I. P. Bashilov.
RUSSIAN, per, AN SSSR, Institut fiziki Zemli. Pribory dlya opredeleniya dlyi tyazhesti na more i ikh issledovaniya, 1966, pp 79-97.
*FTD-MT-24-13-68

The ChARS Automatic Correlation Reader with Shift Register, by A. S. Barashko & V. A. Kovalevskiy, 30 pp.
RUSSIAN, per, AN Ukrainskoy SSR, Chitayushchiye Avtomaty i Raspoznavaniye Obrazov, 1965, pp 184-207.
P100348167
FTD-HT-67-157

Injector-Type Electron Accelerator with Constant Wave Phase Velocity, by V. A. Vishnyakov, I. A. Grishayev, 11 pp.
RUSSIAN, per, AN USSR Fiziko-Tekhnicheskii Institut, Inspektornyy Uskoritel' Elektronov s Postoyannoy Fazovoy Skorost'yu Volny, No 1, 1963, pp 1-12.
P100336767
FTD-HT-67-1

Superhigh Frequency Calculating Intermittent Automation, by M. S. Neyman, 8 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 5-12. P100374167-V
FTD-MT-64-69

About the Basis of Construction of Systems of Superhigh Frequency Intermittent Automation, by M. S. Neyman, 13 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 13-22. P100374167-V
FTD-MT-64-69

Investigation of Flip-Flops and Registers for Amplitude Systems of Intermittent Automation, by M. S. Neyman, L. I. Telyatnikov, 11 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 23-37. P100374167-V
FTD-MT-64-69

Theory of High-Speed Operation of Amplitude Flip-Flops, by L. I. Telyatnikov, 14 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 38-51. P100374167-V
FTD-MT-64-69

Investigation of Logic Elements for the Amplitude System of Intermittent Automation, by M. S. Neyman, G. P. Zemtsov, 13 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 52-65. P100374167-V
FTD-MT-64-69

Parametric Oscillator with Two Stable States of Frequency, by V. I. Samoylenko, B. S. Finogenov, 8 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 66-73. P100374167-V
FTD-MT-64-69

Trigger Phenomena in Circuit With Nonlinear Capacitance of p-n Junction in Presence of d-c Feedback, by V. I. Samoylenko, I. A. Glotov, 16 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 74-91. P100374167-V
FTD-MT-64-69

Steady-State Operating Conditions of the Two-Loop Circuit of the Parametron with Application of the Capacitance of p-n Junction, by V. I. Samoylenko, I. A. Glotov, 17 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 92-113. P100374167-V
FTD-MT-64-69

On the Nonstationary Processes in the Parametron with Capacitance of p-n Junction, by V. I. Samoylenko, 18 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 134-137. P100374167-V
FTD-MT-64-69

Investigation of Dynamic Processes in Generators of Subharmonic Oscillations Built Around Capacitance of p-n Junction, by V. I. Samoylenko, Ye. M. Zlochevskiy, 14 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 134-147. P100374167-V
FTD-MT-64-69

Principles of Construction of Memory and Code-Selection Elements for Systems of High-Frequency Intermittent Automations, by M. S. Neyman, 9 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 148-157. P100374167-V
FTD-MT-64-69

Concerning the Automation of Programming High-Speed Digital Electronic Computer Systems, by M. S. Neyman, 12 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 158-174. P100374167-V
FTD-MT-64-69

Concerning the Electronic Automation of Research Works, by M. S. Neyman, 13 pp.
RUSSIAN, per, Aviatsionnyy Institut, No 149, 1962, pp 175-188. P100374167-V
FTD-MT-64-69

The Order Code for Computer Control, by E. A. Trakhteneyerts, V. Ye. Turchenko, 22 pp.
RUSSIAN, per, Avtomaticheskoye Operativnoye Upravleniye Proizvodstvennyimi Protsessami, 1965, pp 101-112. P100351867
FTD-MT-67-1

Input of Large Data Flow into a Computer, by V. Ye. Marchuk.
RUSSIAN, per, Avtomatika, Telemekhanika i Svyazi, No 1, 1967, pp 9-12.
*FTD-MT-23-86-68

Permanent Storage with Metallic Punched Cards (DEP-MK), by R. Ka. Chernyak, Yu. H. Sal'mov.
RUSSIAN, per, Avtomatika, No 2, 1967, pp 81-83.
*FTD-MT-23-33-68C

Optimal Control of Systems with Distributed Parameters, by V. I. Plotnikov, 7 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 175, No 6, pp 1238-1241.
JPRS 43910

Synthesis of Automatic Systems Optimal in the USSR, by A. I. Propoy & Ya. Z. Tsypkin, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 175, No 6, 1967, pp 1242-1244.
JPRS 43910

Automatic Single-Channel Optimizers (Minimax Controllers), by L. N. Fitsner, 7 pp.
RUSSIAN, per, Elek. Entsiklopediya Inzheneriy, Kontrol'ya i Avtomatizatsii, No 3, 1964, pp 43-44.
FI00372867
FTD-HT-66-773

Electrical Elements of Shipboard Radioelectronic Equipment and Computers, by P. D. Verkhopyatnitskiy, 148 pp.
RUSSIAN, bk, Elektricheskiye Elementy Sudovyykh Radioelektronnykh i Vychislitel'nykh Ustroystv, 1967, pp 152-187, 235-243, 252-271, 276-342.
JPRS 43890

High-Power "Dielectric Concrete" Current-Limiting Resistors, by Yu. N. Vershinin.
RUSSIAN, per, Elekt stantsii, Vol 37, No 9, 1966, pp 56-59.
NLL Ref: 9022.03 (4153)

Multistage Processes in the Selection of Optimal Sizes for Electrical Machines, by Dzh Avetisyan, A. I. Bertinov.
RUSSIAN, per, Elektrichestvo, No 6, 1966, pp 69-74.
*FTD-HT-23-72-68

Reverse Voltage Recovery Transients in Series-Connected Silicon Valves, by E. A. Boldyrev.
RUSSIAN, per, Elektrichestvo, Vol 12, 1966, pp 66-71.
NLL Ref: 9022.03 (4172)

Vibration Resistance of Stator Elements in Large Turbo-Generators, by L. Ye. Stanislavskii.
RUSSIAN, per, Elektrichestvo, Vol 1, 1967, pp 6-11.
NLL Ref: 9022.03 (4143)

Growth of Electrification Appraised, by P.S. Naporozhnyi, 13 pp.
RUSSIAN, per, Elektrichestvo, No. 11, Moscow, Nov 67, pp. 1-8.
JPRS 43,840

Problems to be solved in Electric Power Engineering, by G.V. Aleksenko, 10 pp.
RUSSIAN, per, Elektrichestvo, No. 11, Moscow, 1967, pp. 7-10.
JPRS 43,840

Accelerator-Buncher of Electrons, by Ye. L. Kosarev, 15 pp.
RUSSIAN, per, Elektronika Bol'shikh Moshchnostey, No 4, 1965, pp 190-205. FI00366767
FTD-MT-66-159

The MN-14 Electronic Nonlinear Analog Computer, by V. B. Ushakov, G. M. Petrov, 107 pp.
RUSSIAN, bk, Elektronnaya Nelineynaya Analogovaya Vychislitel'naya Mashina MN-14, 1965, pp 3-69, 108-133, 152-164, 219-233. FI00371567-V
FTD-MT-66-54

Use of Fast Electrons in Metallographic Investigation, by I. M. Pronman.
RUSSIAN, per, Elektronnyye Uskoriteli. V Mezhdvuzovskoy Kongerentsii. Trudy Tomsk. Moskva. Atomizdat. Vols 17-21, 1966, pp 391-398.
*FTD-HT-23-133-68

Operational Characteristics of a Low Powered Synchronous Motor Fed from a Transistorised Inverter with Controllable Frequency, by O. A. Kossov & V. V. Tsokanov.
RUSSIAN, per, Elektrotehnika, No II, 1964, pp 57-58.
NLL Ref: RTS 4068

Dielectric Strength of Transformer Oil Using Small Electrode Spacings, by D. A. Kaplan.
RUSSIAN, per, Elektrotehnika, Vol 10, 1964, pp 17-18.
NLL Ref: 3774.5 (1622)

Special Features in the Operation of an Asynchronous Rectifier Stage with Silicon Valves, by A. A. Sen'kevich & G. B. Onishchenko.
RUSSIAN, per, Elektrichestvo, Vol 12, 1966, pp 40-43.
NLL Ref: 9022.03 (4171)

Testing Powerful Synchronous Compensators on a Factory Testing Unit, by A. T. Tsirkunenko, I. K. Derebeyev, 5 pp.
RUSSIAN, per, Elektrotehnika, No 10, Oct 1967, pp 6-7.
JPRS 43654

Hydraulic Generators for the Plyavin'skaya Hydroelectric Power Plant, by K. F. Kostin, 6 pp.
RUSSIAN, per, Elektrotehnika, No 10, Oct 1967, pp 19-22.
JPRS 43654

Fifty Years of Soviet Transformer-Building, by E.A. Man'kin, 11 pp.
RUSSIAN, journal, Elektrotehnika, Moscow, No. 11, 1967, pp. 27-29.
JPRS 44,013

Removal and Shrinking on of Turbo-Generator Rotor Retaining Rings Using an Electric Jack, by G. P. Bondaletov.
RUSSIAN, per, Energetik, Vol 14, No 12, 1966, p 19.
NLL Ref: 9022.03 (4133)

Modelling of Heavy Synchronous Motors and Their Excitation Systems, by V. A. Ivanov-Smolenski.
RUSSIAN, per, Fizich. model. elektrich. sistem im., Pp 108-111; 122-138, 227-230.
NLL Ref: RTS 3526

Frequency-Modulated Radio-Reception with Tracking Tuning, by D. V. Ageev & Ya. G. Rodinov.
RUSSIAN, per, Gozenergizdat, 1958.
NLL Ref: RTS 3942

The Problem of Teaching Machines to Recognise External Situations, by M. A. Ayzenman.
RUSSIAN, rpt, Moscow, Institut avtomatiki i telemekhaniki, Samobuchayushchiye avtomaticheskiye sistemy, 1966, pp 3-8.
*FTD-MT-24-17-68

Voltage-To-Code Converter, by M. V. Chkhaidze, T. B. Abesadze, 12 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 29-43.
PI00373967-V
FTD-MT-66-61

Converter of Continuous Values into Discrete, by M. V. Chkhaidze, G. A. Machavariani, 9 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 45-56.
PI00373967-V
FTD-MT-66-61

Counters Working in Gray Code, by Yu. S. Mamukyan, 15 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 57-77.
PI00373967-V
FTD-MT-66-61

One Method of "Code-Voltage" Conversion Using a Gray Code Counter, by Yu. S. Mamukyan, M. V. Chkhaidze, 9 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 89-99.
PI00373967-V
FTD-MT-66-61

New Method and Device for Rapid Decimal-Binary Conversion, by M. G. Gogoberidze, 6 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 101-106.
PI00373967-V
FTD-MT-66-61

The Question of Digital Comparison in Gray Code from Low-Order Bits, by Yu. S. Mamukyan, M. V. Chkhaidze, 9 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 141-153.
PI00373967-V
FTD-MT-66-61

Subtraction of Binary Numbers in Straight Code in High-Speed Computers, by M. G. Gogoberidze, T. V. Dolidze, 7 pp.
RUSSIAN, per, Institut Kibernetiki, Elementy Kiberneticheskikh Sistem, 1964, pp 155-162.
PI00373967-V
FTD-MT-66-61

Causes of Dielectric Losses in Transformer Oil at a Frequency of 50 c/s, by R. A. Lipstein & E. N. Stern.
RUSSIAN, per, Inzh fiz zh, Vol 2, 1960, pp 101-104.
NLL Ref: 5828.4F (12239)

Large-Capacity Storage Devices with Unipolar Recording of Information, by I. V. Yaremenko, V. B. Smirnov.
RUSSIAN, per, Izd-vo Energiya, 1965, pp 122-129.
*FTD-MT-24-7-68

Operational Principles and Practical Application of Quantum Radiowave Amplifiers, by A. Prokhorov, Yu. Khodarev.

RUSSIAN, np, Izvestiya, 25 Jul 1967, p 5.
JPRS 43683

Cybernetic Investigations in Uzbekistan, by V. K. Kabulov, 6 pp.

RUSSIAN, per, Izvestiya Akademii Nauk Uzbekskoy SSR, Seriya Tekhnicheskikh Nauk, No 5, 1967, pp 25-29.
JPRS 43548

Characteristics of Three-Dimensional Filtration of Certain Forms of Optical-Electronic Scanning Direction-Finding Devices, by V. L. Levshin.
RUSSIAN, per, AN SSSR, Izv. Tekh. Kibernetika, No 3, 1967, p 137.
*Dept of Navy/ APL/JHU J-1103

Using Linear Group Correcting Codes in Parallel-Type Digital Computers, by Yu. P. Rudnev, Ya. A. Khetagurov.

RUSSIAN, per, IVUZ Elektromekhanika, No 4, 1967, pp 406-416
*FTD-HT-23-75-68

Classification of Electromagnetic Wave Sources, by S. I. Zilitinkevich, 10 pp.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Priborostroyeniye, Vol 10, No 10, 1967, pp 13-17.
JPRS 43874

The "Lvov Information and Control System, 10 pp.

RUSSIAN, per, Kibernetika, No 5, 1967, pp 109-111.
JPRS 43703

Possible Criteria for Evaluating the Information Reliability of Magnetic Storage Devices, by Ye. Balashov, P. Genkin.

RUSSIAN, per, Magnitnye Elementy Vychislitel'noy Tekhniki, Pt 2, 1966, pp 164-169.
*FTD-HT-24-21-68

Electrical Discharge in Intrinsically Safe Circuits, by B. A. Petrenko.

RUSSIAN, per, Mekhaniz i avtomatiz v gorn prom', Moscow, 1963, pp 300-317.
NLL Ref: 8313.4 (5428)

Special Features of the Ignition of Non-Explosive Media by an Electrical Discharge in Intrinsically Safe Circuits, by B. A. Petrenko & V. I. Serov.
RUSSIAN, per, Mekhaniz i avtomatiz v gorn prom', Moscow, 1963, pp 318-330.
NLL Ref: 8313.4 (5429)

Specialized Computer for Calculation of Optimal Parameters of Technological Processes, by A. S. Rupp, P. I. Gandel'man.

RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Proizvodstva, No 9, 1966, pp 41-44.
*FTD-HT-23-27-68

Progress Report by Director of the All-Union Scientific Research Institute of Rural Electrification, by A. V. Demin, 6 pp.

RUSSIAN, per, Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaystva, No 11, Nov 1967, pp 9-11.
JPRS 43995

Progress Report by Director of the Central Scientific Research Institute of Mechanization and Electrification of Agriculture in the Non-chernozem Zone of the USSR, by M. M. Severnev, 5 pp.

RUSSIAN, per, Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaystva, No 11, Nov 1967, pp 4-15.
JPRS 43995

Progress Report by Director of the Leningrad Agricultural Institute, by K. N. Kaporulin, 5 pp.

RUSSIAN, per, Mekhanizatsiya i Elektrifikatsiya Sotsialisticheskogo Sel'skogo Khozyaystva, No 11, Nov 1967, pp 20-21.
JPRS 43995

Microelectronic Elements in Ship Automation, by A. P. Makarov, 11 pp.

RUSSIAN, per, Morskoy Sbornik, No 8, 1965, pp 70-76.
F100347167
FTD-HT-66-80

Wide Application of Bionics Outlined, by V. V. Parin, 8 pp.

RUSSIAN, per, Morskoy sbornik, No 9, 1965, pp 32-37.
JPRS 43439

Light and Power

RUSSIAN, per, Marodnaya Rumaniya, July 1966, pp 11-15.
DIA LN 138-68

Automating the Programming for the Minsk-2(22)st
Computer, by N. V. Shkut.
RUSSIAN, per, Nauka i Tekhnika, 1967, 69 pp.
*FTD-MT-24-3-68

Computing Center of the University of Latvia,
by E. Arin', 5 pp.
RUSSIAN, per, Nauka i Tekhnika, No. 10,
Riga, Oct 67, pp. 20-23.
JPRS 43,865

Union of Electronic Technology and Sports,
by N. Yakobi, 5 pp.
RUSSIAN, per, Nauka i Tekhnika, No. 10, Riga,
Oct 67, pp. 30-32.
JPRS 43,865

Continuous and Discrete Servosystems, by S. L.
Popkov, Yu. S. Popkov, 259 pp.
RUSSIAN, bk, Nepreryvnye i Diskretnyye sledya-
shchiye sistemy, 1964, pp 1-304. P100373767-V
*FTD-MT-65-516

Modeling of a Special-Purpose Digital Computer
for Small Computation Jobs using a General-
Purpose Digital Computer, by G. I. Belik, V. D.
Koshukhov.
RUSSIAN, per, Priборы i Sistemy Avtomatiki,
No 3, 1966, pp 165-167.
*FTD-MT-23-37-68

Technical Development of Computers Outlined,
by B. V. Aleksandrov, 9 pp.
RUSSIAN, per, Priборы i sistemy upravleniya,
No 10, 1967, pp 9-11.
JPRS 43555

Microelectronics Today and Tomorrow, 7 pp.
RUSSIAN, per, Radio, No 11, Nov 1967, pp 12-14.
JPRS 43947

On the Asymptotic Behavior of the Wave Function
of a System of Charged Particles, by
R. K. Peterkop.
RUSSIAN, rpt, Rasseyaniye Elektronov na Atomakh,
1967, pp 35-68.
Sci Tech Info Facility
ST-AC-PF-10667

Selective RC Amplifiers, by A. I. Bystrov, V.
M. Yakovlev.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 7, 1966,
pp 49-50.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Precipitation of Smoking Fumes in High-Tension
Electrostatic Fields, by N. A. Voskresenski,
E. A. Khvan.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966,
pp 59-61.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Development of Ship Antenna Equipment, by N.I.
Pavlov, et al, 5 pp.
RUSSIAN, per, Sudostroyeniye, No. 11, Leningrad,
Nov 67, pp. 54-56.
JPRS 44,025

The "Okean" Marine Radar Set, by I. P. Lisenenkov,
B. F. Volynets, 9 pp.
RUSSIAN, per, Sudostroyeniye, No 11, Nov 1967,
pp 57-62.
JPRS 44,025

Multichannel Reception of Signals which Depend
Nonlinearly on Random Parameters, by L. P.
Sysoyev.
RUSSIAN, per, Tekhnicheskaya Kibernetika, 1965,
pp 47-55.
*FTD-MT-23-3-68

Theory of Automatic Control and Adjustment, by
A. A. Ivanov, 293 pp.
RUSSIAN, bk, Teoriya Avtomaticheskogo Upravleniya
i Regulirovaniya, 1964, pp 1-331. P100005968-V
*FTD-MT-65-433

Effect of High-Energy Radiation on Ceramic
Dielectrics, by N.S. Kostyukov and T.M.
Smirnova, 10 pp.
RUSSIAN, per, Trudy Gosudarstvennogo Issled-
ovatel'skogo Elektrokeramicheskogo Instituta,
4 Nov 60, pp. 120-127.
JPRS 44,148

Possibilities of Enhancing the Reliability of
Discrete-Action Computing and Control Devices,
by V. B. Svechinskiy.
RUSSIAN, per, Trudy Moscov. Energeticheskoy In-
stitut, No 59, 1965, pp 245-253.
*FTD-MT-23-36-68

A Multichannel Airborne Coding Converter, by N.
K. Vinnichenko, G. M. Shur, 12 pp.
RUSSIAN, per, Tsentral'naya Aerokosmicheskaya
Observatoriya. Trudy, No 63, 1965, pp 96-103.
P10053667
*FTD-MT-67-245

Experience in the Machine Computation of Cloud-Dover Maps Using a Setun' Computer and Weather-Satellite Data, by N. M. Potiyevskiy, N. I. Ruyantsev.
RUSSIAN, per, Tsentral'nyy Institut Prognozov, Planetarnaya Tsifrovaya Apsobirovka i Issledovaniya Sputniki Zemli, Trudy No 152, 1966, pp 25-28.
*FTD-HT-23-28-68

Experience in Operation and Development of the M-20 Electronic Digital Computer, by M. T. Kobzar', A. M. Smaglyi, 30 pp.
RUSSIAN, per, Tsifrovaya Vychislitel'naya Tekhnika i Programirovaniye, No 1, 1966, pp 87-102.
P100372367
FTD-HT-67-247

Single-Phonon Thermal Ionization in Cubic Piezoelectrics in a Magnetic Field, by Ye. P. Pokatilov.
RUSSIAN, per, Uch Zap Kishinevsk u., No 80, 1965, pp 57-62.
*FTD-HT-23-48-68

Some Electrical and Photoelectric Properties of the HgTe-ZnTe System, by A. D. Shneyder.
RUSSIAN, per, Ukrayins'kyy Fizichnyy Zhurnal, Vol 10, No 8, 1965, pp 915-917.
*FTD-HT-23-25-68C

Application of Analog Computers for Iterative Process of Determining Control in one Optimal Systems, by V. V. Aleksandrov, 6 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik. Seriya I. Matematika, Mekhanika, No 4, 1964, pp 54-58. P100371867-V
FTD-MT-64-560

Questions on Increasing the Productivity of a Digital Computer, by Yu. L. Vishnevskii.
RUSSIAN, bk, Voprosy Kul'tiobrabotki Informatsii na Vychislitel'nykh Sistemakh; Novosibirsk, Izd-vo "Nauka", 1966, pp 7-38.
*Dept of Navy/ AFL/JHU J-1108

Electronic Gaussmeter of the EG-1 Type, Based on the Use of the Hall Effect, by V. F. Vitovskiy, E. A. Sokolova.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 71, 1963, pp 94-100.
P100372267-V
FTD-MT-65-408

Some Problems of Impulse Magnetic Reversal of Ferrites with Rectangular Hysteresis Loops, Originating During the Use of Memory Elements in Multiperforated Sheets, by R. A. Lashevskiy.
RUSSIAN, per, Vsesoyuznoye soveshchaniye po ferritam, 4th Minsk, Fizicheskoye i fiziko-khimicheskoye svoystva ferritov Doklady Soveshchaniya Nauchnyy Sovet po Fizike Tverdogo Tela AN SSSR. Institut Fiziki Tverdogo tela i polyprovodnikov AN BSSR, Belorusskiy Respublikanskiy Sovet Nauchno-Tekhnicheskikh Obshchestv, Minsk, Nauka i Tekhnika, 1966, pp 182-186.
*FTD-HT-23-1531-67

Introduction to Theory of Digital Integrators, by A. V. Kalyayev, 269 pp.
RUSSIAN, bk, Vvedeniye v Teoriyu Tsifrovyykh Integratorov, 1964, pp 1-291. P100008568-V
FTD-MT-65-215

A Discretely Controlled Analog Memory, by J. Bartos, 16 pp.
RUSSIAN, per, Vyskumne Problemy Technichej Kybernetiky a Mechaniky, 1965, pp 21-32.
P100372567
FTD-HT-23-1084-67

Automatic Monitoring of the Correct Recording of Algorithms in the Algol-60 Language, by V. A. Vasil'yev, N. N. Losinskiy, 28 pp.
RUSSIAN, per, Zhurnal Vychislitel'noy Matematiki i Matematicheskoy Fiziki, Vol 6, No 1, 1966, pp 130-143. P100364767
FTD-MT-67-78

Memory Device, by S. I. Kreynin & R. A. Lashevskiy, 2 pp.
RUSSIAN, per, Patent No 184935 (Appl. No. 1007887/26-24, May 20, 1965), 2 pp. P100372167
FTD-HT-23-1082-67

A Cophased Antenna Array with Electrical Scanning, by Ye. A. Anfilov.
RUSSIAN, Patent No 190433, 1967.
*FTD-HT-23-59-68D

An Algorithm of Recognition Systems of the Perceptron Type with a Correlator at the Input, by V. I. Vasylyev, O. H. Ivakhnenko, 22 pp.
UKRAINIAN, per, Artomatika, No 1, 1966, pp 7-21. P100373067
FTD-HT-23-582-67

Methods of Present-day Analytical Aerotriangulation, by V. K. atky.
CZECH, per, Geodeticky a kartograficky obsor. No 9, 1965, pp 225-232.
*FTD-HT-23-44-68

EK 101 Electronic Copying Machine and Its Contribution to Photogrammetry, by V. Komarek.
CZECH, per, Geodetický a Kartografický Obzor, No 12, 1965, pp 313-137.
*FTD-HT-23-44-68

Main Board For Telegraphs And Telephones, 12 pp.
DUTCH, per, Pitt-Rodrijschanden, Feb 1966, pp 10-15.
DIA LN 260-68

The Measurement of Spurious Voltages in Vibration-Stressed Coaxial Cables, by J. P. Hirschfeld, and B. Irrgang.
GERMAN, per, Hochfrequenztechnik Und Elektroakustik, Vol 76, 1967, pp 113-119.
P5000221-68
Dept of Navy/ARL Tr No. 1097

Investigation of Electrolytically Separated Microwave Conducting Layers, by M. Matok, 18 pp.
GERMAN, per, Nachrichtentechnik, No 7, 1964, pp 259-263. P100362467
FTD-HT-66-459

Utilization of Digital Computers for Starting and Running the EDF-3 Atomic Power Plant, by R. Morin. 12 pp.
GERMAN, per, Neue Technik, No. 8, 1966, pp 26-32 P911005268
AEC-Tr-6913

Simplified Reproduction of the Controller Action of A Steam Superheater on the Analog Computer, by B. Hanns, 11 pp.
GERMAN, per, Reglungstechnik, Vol 13, 1965, pp 14-20.
P911407267
AEC ORNL-TR-1802

Visual Document Sorter ODS 2, by V. P. Mierzowski and H. H. Weiss, 11 pp.
GERMAN, per, SEL Nachrichten, No 1, 1966, pp 39-44.
ACSI J-2477
IR 2204019767

Principles of Material Separation in Magnetic Fields, by H. Schubert.
GERMAN, per, Verfahrenstechnik, Vol 1, No 9, 1967, pp 405-411.
*AEC ABRE

Digital Data Retrieval Facility for a Blowdown Supersonic Wind Tunnel, by A. Heyser.
GERMAN, per, HLR, May 1966, pp 147-162.
*NASA TT F-11,506

The Gyro-Relaxation Effect, by A. Schluter.
GERMAN, per, Zeitschrift fur Naturforschung, Vol 12a, 1957, pp 822-825.
*Dept of Navy/ APL/JHU J-1107

Applications of Thin Films in Electronics, Part II, by Janos Boros-Gyevi, Gyorgy Motal.
HUNGARIAN, per, Finommechanika, No 3, 1967, pp 85-89.
*FTD-HT-23-88-68

Application of Thin Films in Electronics, Part III, by Janos, Boros-Gyevi, Y. Boros-Devi.
HUNGARIAN, per, Finommechanika, No 5, 1967, pp 143-150 and 159.
*FTD-HT-23-73-68

Central Record of Computer Programs, by Erno Simon, 9 pp.
HUNGARIAN, per, Informacio Elektronika, No 4, 1967, pp 313-316.
JPRS 43979

Results and Development Trends in Automation, Technical Cybernetics Research, by Otto Benedikt, 21 pp.
HUNGARIAN, per, A MTA Muszaki Tudomanyok Osztalyanak Kozlemenyei, No 38, 1967, pp 325-344.
JPRS 43529

Hungarian Tungsten Research, by Tivadar Millner, 9 pp.
HUNGARIAN, per, A MTA Muszaki Tudomanyok Osztalyanak Kozlemenyei, No 38, 1967, pp 373-383.
JPRS 43529

Electrification of the Miskolc-Szerencs-H. Rail Line, by I. Balaton, 17 pp.
HUNGARIAN, per, Vasut, Vol 16, No 12, Dec 1966, pp 7-8, 11-13; 14; 23-25.
DIA LN 70-68

All-Transistor RF Amplifier Circuits Handbook.
JAPANESE, per, Electronic Science, Vol 17, No 9, Sept 1967, pp 14-116.
*ACSI J-4126
ID 2204000668

Microwave Discharge Systems, by A. Kraszewski.
POLISH, bk, Mikrofalowe układy przełączające. (Instytut Podstawowych Problemow Techniki Polskiej Akademii nauk), Warsaw. PWN, 1966, 264 pages.
*FTD-HT-23-1672-67C

Reliability of Composite Structure Information Networks, by J. Migdalski.
POLISH, per, Pomiar, Automatyka, Kontrola, No 2, 1967, pp 99-102.
*FTD-HT-23-53-68C

Circuit for the Calibration of Noise Generators Operating in the L-Band, by J. Smaga.
POLISH, per, Prace Warsaw. Przemyslowy Instytut Telekomunikacji, Vol 16, No 51, 1966, pp 23-31.
*FTD-HT-23-58-68C

Analysis of Thyristor-Based Frequency Speed-Control Systems for Alternating-Current Motors, by Stanislaw Biolawski, Andrzej Werynski, 17 pp.
POLISH, per, Przeglad Elektrotechniczny, No 8, 1965, pp 303-307. PI00370467
FTD-HT-66-605

Electronics in Internal Combustion Engines, by R. Bosch.
POLISH, per, Technika Motoryzacyjna, No 5, 1967, pp 144-153.
*ACSI J-4153
ID 2204001668

Energy Conversion (Non-Propulsive)

Fifty Years of Soviet Electric Power, by P. S. Neporoshnyi, 10 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 8-11.
JPRS 43996

The Development of the Power Systems of the USSR, by S. S. Rokotyan, S. A. Sovalov, 17 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 21-28.
JPRS 43996

Thermal Power -- the Basis for Power Engineering in the USSR, by Yu. N. Flaksman, 9 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 28-30.
JPRS 43996

Atomic Electric Power in the USSR, by G. V. Yermakov, 8 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 36-40.
JPRS 43996

The Use of Fuel Resources for Electric Power in the Soviet Union, by A. M. Nekrasov, 12 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 40-44.
JPRS 43996

Introduction of District Heating Systems and Heating Networks in the USSR, by Ye. Ya. Sokolov, N. K. Gromov, 12 pp.
RUSSIAN, per, Elektricheskoye Stantsii, No 11, 1967, pp 47-52.
JPRS 43996

Basic Design Features of the KMTGZ Steam Turbine for 500-MW Units, by L. A. Shubenko-Shubin & V. W. Galatsan.
RUSSIAN, per, Energomashinostroenie, Vol 12, No 12, 1966, pp 6-11.
NLL Ref: 9022.03 (4150)

Method of Calculating the Variations in Axial Clearances in Steam Turbines Subject to Pronounced Transients, by A. A. Bedrinskii.
RUSSIAN, per, Energomashinostroenie, Vol 12, 1966, pp 12-15.
NLL Ref: 9022.09 (4540)

Method of Calculating a Jointless Steam Turbine Governor, by I. S. Ratner.
RUSSIAN, per, Energomashinostroenie, Vol 12, No 8, 1966, pp 17-20.
NLL Ref: 9022.03 (4113)

Status and Perspectives of Developing Magneto-hydrodynamic Generators, by A. I. Moskvitin, 38 pp.
RUSSIAN, per, AN SSSR. Energeticheskoy Institut. Voprosy Razvitiya Energetiki, 1964, pp 56-79.
PI00365467
FTD-HT-66-378

Erosion of Blades in Steam Turbines, by B. S. Dorogov, 77 pp.
RUSSIAN, bk, Eroziya Lopatok v Parovykh Turbinakh, 1965, pp 1-95.
PI00017268-V
FTD-MT-67-37

Calculation of Radiative Heat Exchange Between Bodies Separated by an Absorbing Medium, by A. A. Vonnosenkiy, A. R. Fert.
RUSSIAN, per, IVUZ. Energetika, No 2, 1967, pp 70-75.
*FTD-HT-23-16-68

Scientific
Energy Conversion (Non-Propulsive) (Contd)

Ilha Solteira Power Plant, 28 pp.
PORTUGUESE, per, Hydroeletrica de Ilha Solteira,
pp 36-46; 48-55.
DIA LN 373-68

Hydraulic Potential, 23 pp.
PORTUGUESE, per, Recursos Energeticos de Brasil e
Panorama da Energia Electrica, Aug 1966, pp 12-33.
DIA LN 333-68

Materials

Adhesion of Dust and Powders, by A. D. Zimon.
RUSSIAN, bk, Adgeziya Pyli i Poroshkov, 1967.
Plenum Press

Distortion of the Crystalline Structure and
Density of the Dislocations in Molybdenum in
Various Stages of Refinement After Filing, by
Ye. M. Savitskiy & A. A. Babareko, 9 pp.
RUSSIAN, per, AN SSSR. Institut Metallurgii im.
A. A. Baykova. "Problemy Bol'shoy Metallurgii i
Fizicheskoy Khimii Novykh Splavov," 1965,
pp 250-254. P100367467
FTD-HT-66-638

Siliconizing in a Glow Discharge, by D. A.
Prokoshkin & B. N. Arzamasov.
RUSSIAN, per, AN UKRSSR. Institut Problem
Materialovedeniya. Diffuzionnyye pokrytiya na
metallakh, Kiev, Naukova, dumka, 1965, pp 38-44.
*FTD-HT-23-131-68

The Use of Non-Autoclaved Aerated Slag Concrete
in Large-Panel Construction in the Don Basin
Region, by B. P. Danilov & B. A. Priezzhev.
RUSSIAN, per, Beton i zhelezobeton, Vol 2, 1965,
pp 9-12.
ILL Ref: 5196 (1378)

Precast Reinforced Concrete in The Construction
of Technical Port Waterfront Structures, 67 pp.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

Prefabricated Span Structures of Railroad Bridges
Made of Centrifuged Reinforced Concrete.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

Scientific
Materials (Contd)

Development Of The Equipment For Erecting Span
Structures Of Reinforced-Concrete Bridges.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

New Features In The Instructions For The Planning
Of Reinforced-Concrete and Concrete Bridge-
Structure.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

Adhesive Junctions of Units or Precast Reinforced-
Concrete Designs of the Span Structures of Larger
Bridges.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

Principal Results & Paths of Further Development
of Reinforced-Concrete Bridge Building.
RUSSIAN, per, Beton i Zhelezobeton, No 7, July
1967, pp 1-21; 25-30.
DIA LN 367-68

Protection of Steel Ties Against Corrosion in
Large-Panel Housing and Civil Buildings, by A.
M. Podval'nyy, S. N. Alekseyev, 9 pp.
RUSSIAN, per, Beton i Zhelezobeton, No 8,
Aug 1967, pp 16-19.
JPRS 43381

New State Standards for Methods of Determining
Heavy Concrete Strength, 6 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekh-
niki, Moscow, No. 10, Oct 67, pp. 19-22.
JPRS 44017

Continuous Casting of Rimming Steel for
Hot-Rolled Sheet and Strip, by G. M. Itskovich.
RUSSIAN, per, Byulletin Tekhn.-Ekon. Inform,
May 1962, pp 3-10.
*HB 7290

Application of Metallic and Organic Coatings to
Steel Strip [While in Motion], by V. T. Stepanenko
& A. F. Dudyrev.
RUSSIAN, per, Byulletin Tekhn.-Ekon. Inform, No 9,
1966, pp 3-4.
HB 7289

Some Special Features of Austenite Decomposition in the Isothermal Treatment and Continuous Cooling of Martensitic-Ferritic Type Steels, by N. S. Alfeyorova & L. M. Shevchenko.
RUSSIAN, per, Dopovidi Akad. Nauk UkrSR, Seriya A, No 3, 1967, pp 263-266.
HB 7314

New Developments in Soviet Science and Technology, 5 pp.
RUSSIAN, np, Ekonomiceskaya gazeta, No 48, Nov 1967, p 46.
JPRS 43947

Pulsed Arc Welding of Aluminum Alloys, by A. G. Potap'yevskiy, V. F. Lapchinskiy.
RUSSIAN, bk, Impul'sno-Dugovaya Svarka Aluminid-nykh Spal'ov, Leningrad, 1966, pp 1-45.
*FTD-MT-24-23-68

Experimental Investigation of the Plastic Damage Mechanism in Metals, by O. G. Rybakina, Ya. S. Sidorin.
RUSSIAN, per, Inzhenernyy Zhurnal, Mekhanika Tverdogo Tela, No 1, 1966, pp 120-124.
*FTD-HT-23-18-68

Problems of Investigating Thermoelectrode Alloys, Stable to Oxidation up to 2000°C, by I. A. Aleksakhin, I. R. Lepin, 21 pp.
RUSSIAN, per, Issledovaniye Spal'ov dlya Temper. No 22, 1964, pp 143-158. P100373367
FTD-HT-23-746-67

Pressed Black Powder Products.
RUSSIAN, per, Izdeliya Pressovannyye Iz Dymnogo Ruzheynogo Porokha, 1 Jan 1959.
*ACSI J-4067
ID 1771093267

The Static Strength of Metals in Conditions of a Complex Stressed State and Low Temperatures, by P. F. Koshelev.
RUSSIAN, per, AN SSSR, Izvestiya Mekhanika, No 5, 1965, pp 131-134. P100365667
FTD-HT-66-464

Possibility of Reducing the Susceptibility of Steel to Flake Formation by Means of Small Palladium Additions, by V. I. Arkharov.
RUSSIAN, per, Izv. AN SSSR metally, Vol 1, 1967, pp 105-111.
ILL Ref: 9022.4 (67/112)

Characteristics of Carbide Phase Distribution in Carbided Layers in Alloyed Steels, by B. S. Natapov, G. I. Vasilenko.
RUSSIAN, per, Izv. Vysshikh Uchebn Zavedenii, Chern Met, Vol 8, No 2, 1965, pp 134-4.
*FTD-HT-23-74-68

Influence of Ingot-Mould Pass Shape on the Cooling Rate of Chilled Section Rolls, by A. E. Krivosheev.
RUSSIAN, per, Izv. VUZ chern.met., Vol 9, No 12, 1966, pp 122-126.
ILL Ref: 9022.4 (67/91)

Selection of Most Representative Data on the Blast Furnace Process, by V. Yu. Kaganov.
RUSSIAN, per, Izvest VUZ Cher. Met, Sept 1967, pp 12-16.
*HB 7303

Adhesion of Nitrides to Steel and Slag, by S. K. Chuchmarev.
RUSSIAN, per, Izvest. Vuz- Chern. Met, No 1, 1967, pp 16-19.
HB 7280

Friction in High-Speed Cold Rolling of Metals with Various Technological Lubricants, by B. I. Starchenko, et al.
RUSSIAN, per, Izvest. VUZ Cher. Met, Aug 1967, pp 86-91.
*HB 7272

Glass-Based Suspension Coatings to Protect Steel Being Heat Treated from Oxidation, by Yu. V. Grdina, et al.
RUSSIAN, per, Izvest. VUZ Cher. Met, Aug 1967, pp 105-106.
*HB 7276

Investigation of the Reducing Period in Electric Furnace Melting of Type 18-10 Ti Stainless Steel, by E. I. Kadinov.
RUSSIAN, per, Izvest. Vuz- Chern. Met, Vol 10, No 3, 1967, pp 48-51.
HB 7278

Continuous Supervision of Temperature During the Pouring of Killed Electric Furnace Steel, by V. S. Kocho.
RUSSIAN, per, Izvest. Vuz- Chern. Met, Vol 10, No 5, 1967, pp 54-58.
HB 7242

Nonmetallic Inclusions in a Steel Bath During the Heat, by A. I. Stroganov.
RUSSIAN, per, Izvest. Vuz- Chern. Met., Vol 10, No 8, 1967, pp 34-37.
HB 7271

Desulfurization of Pig Iron in Ladle with the Aid of Electromagnetic Stirring, by M. G. Rezin.
RUSSIAN, per, Izvest. Vuz- Chern. Met., Vol 10, No 9, 1967, pp 20-24.
HB 7304

Effect of Nitrogen, Vanadium, and Aluminium on the Mechanical Properties of Heat Treatable Chromium Steel, by M. I. Gol'dshtein.
RUSSIAN, per, Izvest VUZ Cher. Met., Sept 1967, pp 137-142.
*HB 7306

Ageing Susceptibility of Steel Held Under Pressure While Crystallizing, by V. B. Livshits.
RUSSIAN, per, Izvest VUZ Cher. Met., Sept 1967, pp 152-154.
*HB 7305

Investigations of Electric Properties of Polymeric Spray-Coated Insulating Films, by V. A. Kaniskin, V. T. Renne.
RUSSIAN, per, Izus. Energetika, No 6, 1967, pp 22-26.
*FTD-HT-23-77-68

Concentrated Nitric Acid for Industrial Use
RUSSIAN, per, Kislota Azotnaya Kontsentriruyemaya, 1958, pp 701-758.
*FTD-HT-23-35-68

Production of Forgings from Continuous-Cast [Steel] Slabs, by I. A. Nenaevnikov.
RUSSIAN, per, Kuzn.-ShTamp. Proizvodstvo, Vol 9, No 4, 1967, p 45.
HB 7332

Characteristics of the Hydraulic Descaling Process of Heated [Steel] Billets, by V. I. Zalesskii.
RUSSIAN, per, Kuzn.-ShTamp. Proizvodstvo, Vol 9, No 6, 1967, pp 20-22.
HB 7333

Experience in the Production of Cylindrical Gear Forgings with Finished Teeth on High-Velocity Forming Machines, by N. F. Kobayakovskii.
RUSSIAN, per, Kuzn.-ShTamp. Proizvodstvo, Vol 9, No 8, 1967, pp 11-13.
HB 7331

Phase Composition of the Scale and High Temperature Strength of Nickel Base Alloys, by A. I. Rytvinskii & G. D. Pigrova.
RUSSIAN, per, Leningrad. Tsentral'nyy Nauchno-Issledovatel'skiy i Proyektiro-Konstruktorskiy Kottlurbinnyy Institut im. I. I. Polzunova. Trudy TSKTI, Issledovaniye Materialov dlya Energeticheskikh Ustanovok, TSKTI No 69, 1966, pp 167-170.
*FTD-HT-23-1608-67

Quality of Parts Deep Drawn with a Liquid Die (Announced by the Chelyabinsk Polytechnic Institute/Chelyabinsk Politehnicheskii Institut), by Yu. M. Pogorelov.
RUSSIAN, per, Mashinostroyeniye, No 11, 1966, pp 160-164.
*FTD-HT-23-17-68

Basic Types of Deformation Micro-Contours Appearing on the Surface of Commercial Iron Test-Pieces During Fatigue Testing Under Heating in Vacuo, by M. G. Lozinskiy, A. M. Romanov.
RUSSIAN, per, Mashinovedeniye, No 3, 1965, pp 56-65.
AEC-AERE-Trans-1070

Results Obtained with Use of Hydroacoustic Technique in Purse-Seining for Herring in the Norwegian Sea, by A. A. Degterev.
RUSSIAN, per, Mater. ryb. issled. severn. bass., 1964, 1962-1963, pp 165-168.
NLL Ref: 9022.15 (1203)

Effect of Small Additions of Cerium, Iron, Nickel and Cobalt on the Mechanical Properties and Electrical Conductivity of Aluminium, by Y. M. Krupotkin & M. B. Gokhshtein.
RUSSIAN, per, Metallov term obrab met., Vol 8, 1966, pp 60-62.
NLL Ref: 9022.4 (67/115)

Effect of Slight Silver Impurities on the Electrical Resistance of Palladium, by E. G. Okonnikov.
RUSSIAN, per, Metalurg i metallov chist met., Vol 5, 1966, pp 77-81.
NLL Ref: 9022.4 (67/149)

Results of Application of Chrome-Hardening
Diffusion Methods, Obtained in Hungary, by S.
Cseh.
RUSSIAN, rpt, Mezhdunarodnyy Simpozium po Metal-
lovedeniyu i Termicheskoy Obrabotke, Oct 1967,
7 pp.
*FTD-HT-23-29-68

The Cut of the Net in the Surface of Rotation,
by N. I. Alekseev.
RUSSIAN, per, Nauch-tekhn byull PINRO, Vol 4,
No 18, 1961, pp 40-42.
NLL Ref: 9022.15 (1214)

Coking of Briquetted Coal with a Solid Heat
Carrier, by I. S. Galyuker.
RUSSIAN, per, 'Novoe v briketirovan. i koks.ugl',
1965, pp 140-146.
NLL Ref: 9022.66 (2582)

New Cellulose Materials, by Z. A. Rogovin,
40 pp.
RUSSIAN, rpt, Novyye Tsellyuloznyye Materialy,
1967.
ACSI J-3730
ID 2204053467

Investigation of Structural Changes in High-Alloy
Ferrite-Austenitic Steels, by Sie-Si-San & J.
Cadek, 45 pp.
RUSSIAN, per, O Nerezavayemich Ocelich, 1963,
pp 140-180. P100366567
FTD-MT-66-09

Glass Fiber Reinforced Plastics, by I. I.
Porzhitskiy & B. S. L'vov, 11 pp.
RUSSIAN, per, Plasticheskiye Massy, No 11, 1967,
pp 48-52.
JPRS 43923

Additives to Oils to Lower Friction and Wear,
by I.E. Vinogradova, 97 pp.
RUSSIAN, bk, Frisadki k Maslam Dlya Snizheniya
Treniya i Isnosa, 1963, pp 3-111.
P100014568-V
FTD-MT-64-388

Radiation Effects Upon the Properties of Lubri-
cating Materials, by Yu. S. Zaslavskii, G. I.
Shor.
RUSSIAN, bk, Radioisotopy v Issledovanii Svoistv
Smazochnykh Materialov, 1967, pp 1-180.
*FTD-MT-24-1-68

Distribution of Poutassou and the Prospects of
Fishing for it in the Norwegian Sea, by
V. K. Zilanzov.
RUSSIAN, per, Rybnoe khozyaistvo, Vol 4, 1965,
pp 10-12.
NLL Ref: 9022.15 (1225)

Poutassou of the Porcupine Bank, by A. S. Polonskii.
RUSSIAN, per, Rybnoe khozyaistvo, Vol 2, 1966,
pp 5-9.
NLL Ref: 9022.15 (1223)

Corrosion of Building Structures in Fish-
Processing Plants, by A. V. Chuiko, A. P. Proshin.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966,
pp 56-58.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Investigation of the Corrosion Resistance and
Electrochemical and Mechanical Properties of
Alloys of the System Niobium and Titanium,
by A. I. Glukhova and V. V. Andreyeva.
RUSSIAN, per, Sb. Korroziya met. i splavov,
Metallurgiya, No 2, Moskva, 1965, pages 29-42.
*FTD-HT-23-1665-67

Development of the Construction Ceramics Industry
During the Years of Soviet Rule, by V. K.
Kunayev, 8 pp.
RUSSIAN, per, Steklo i Keramika, No 11, Nov 1967,
pp 15-18.
JPRS 43971

The Growth of Output of Porcelain and Earthen-
ware Articles During 50 Years of Soviet Rule, by
A. P. Lyutenko, 6 pp.
RUSSIAN, per, Steklo i Keramika, No 11, Nov 1967,
pp 19-21.
JPRS 43971

Mineralogical Composition and Microstructure
of Silicate Concrete, by V. R. Garashin &
G. V. Sizov.
RUSSIAN, per, Stroitel'nye materialy, Vol 12,
No 1, 1966, pp 33-35.
NLL Ref: 5196 (1379)

Liquefied Asphalt, by Lilyans Momcheva.
RUSSIAN, per, Stroitelstvo, Vol 12, Aug-Sept
1967, pp 26-30.
DIA LN 82-68

Scientific
Materials (Contd)

Grain-Size Non-Uniformity in a Nimonic-Type Alloy, by G. V. Makhanev.
RUSSIAN, per, Svoist i primen. zharoproch. splavov. Inst met A.A. Baikova, AN.SSSR, 1966, pp 144-148.
NLL Ref: 9022.4 (67/142)

Kinetics of Growth of Rupture Centres in Nickel Alloys Under Creep Conditions, by I. L. Mirkin & Y. A. Rybakova.
RUSSIAN, per, Svoist i primen. zharoproch. splavov Inst met A. A. Baikova, AN.SSSR, 1966, pp 148-153.
NLL Ref: 9022.4 (67/146)

Strengthening of a Nickel-Base Alloy Upon the Precipitation of a Rhombic-Lattice Phase, by N. L. Baturinskaya & V. G. Chernyi.
RUSSIAN, per, Svoist. i primen. zharoproch. splavov. Inst. met. A.A. Baikova, AN.SSSR, 1966, pp 153-158.
NLL Ref: 9022.4 (67/145)

Influence of Heat-Treatment Conditions on the Lattice Constant of the Precipitated Phase in a Ni-Cr-Ti-Al Alloy, by V. V. Zhukov.
RUSSIAN, per, Svoist i primen. zharoproch. splavov. Inst. met. A.A. Baikova, AN.SSSR, 1966, pp 159-162.
NLL Ref: 9022.4 (67/144)

Influence of Deformation and Annealing on the Structure of Single-Crystalline Specimens of EI437B Alloy, by L. S. Ershova & V. V. Levitin.
RUSSIAN, per, Svoist. i primen. zharoproch. splavov. Inst. met A.A. Baikova, AN.SSSR, 1966, pp 163-167.
NLL Ref: 9022.4 (67/143)

Technology of Carbon-Graphite Materials, by Ye. F. Chalykh.
RUSSIAN, bk, Tekhnologiya Uglegrafitovykh Materialov, 1963, pp 1-304.
P100018368-V
FTD-HT-65-132

Radiant Heating of Glued, Nonwoven Textile Material, by V. I. Kus'min, L. L. Dobrosereov.
RUSSIAN, per, Tekstil'naya Promyshlennost', No 3, 1967, pp 65-67.
*FTD-HT-23-22-68

Scientific
Materials (Contd)

Calculation of the Height of Trim for a Particular Example of Strain Exerted on the Net, by N. N. Andreev.
RUSSIAN, per, Trudy Atlant.NIRO, Vol 10, 1963, pp 283-291.
NLL Ref: 9022.15 (1212)

Interaction of Metallic Uranium with Hydrogen, by N. P. Galkin, B. N. Sudarikov.
RUSSIAN, per, Trudy Mosk Khim-Tekhnol Inst., No 43, 1963, pp 67-71.
AEC-LA-tr-67-67

On the Calculation of Working Stresses During the Pressing of Hollow Shapes in Dies with Built-in Core Pins, by M. Z. Yermanok & L. S. Skoblov, 7 pp.
RUSSIAN, per, Tsvetnyye Metally, No 3, 1966, pp 74-77.
P100362567
FTD-HT-66-728

Historical Sketch of Nonferrous Metallurgy Development, by P. F. Lomako, 28 pp.
RUSSIAN, per, Tsvetnyye metally, No 10, Oct 1967, pp 1-12.
JPRS 43933

Kirghizia Develops Nonferrous Metallurgy, by E. Yu. Yegoshkin & S. Doolotoliyev, 8 pp.
RUSSIAN, per, Tsvetnyye metally, No 10, Oct 1967, pp 60-62.
JPRS 43933

Full Utilization of Raw Materials Needed in Nonferrous Metallurgy, by Vladimir Nikolayevich Leksin, 24 pp.
RUSSIAN, per, Tsvetnyye metally, No 10, Oct 1967, pp 63-71.
JPRS 43933

Stress Distribution in Fiber-Reinforced Plastics Under Tension, by T. V. Borsova.
RUSSIAN, per, Vestnik Moskovskogo Universiteta. Seriya I. Matematika. Mekhanika, No 2, 1966, pp 106-111.
*FTD-HT-23-26-68

On the Determining of the Mechanical Properties of Laminated Plastics in Conditions of One-Sided Surface Heating, by B. A. Lyashenko & G. S. Pisarenko.
RUSSIAN, rpt, Vsesoyuznoye soveshchaniye po voprosam staticheskoy i dinamicheskoy prochnosti materialov i konstruktsionnykh elementov pri vysokikh i nizkikh temperaturakh, 3d. Termiprochnost' materialov i konstruktsionnykh elementov, materialy soveshchaniya, Kiev, Naukovaa dumka, 1965, pp 106-112.

*FTD-HT-23-115-68

The Possibility of Anodic Protection of Stainless Steels in Dilute Nitric Acid, by V. S. Kuzub & V. A. Kachanov.

RUSSIAN, per, Zashchita metallov, Vol 2, No 3, 1966, pp 358-360.
MLL Ref: 9022.4 (67/119)

The Application of Epoxy Coatings for Protection of Metallic and Concrete Surfaces, by V. B. Tikhomirov, Ye. A. Panevskina, 5 pp.

RUSSIAN, per, Zashchitnyye Pokrytiya v Atomnoy Tekhnike, Sbornik Statev, 1963, pp 144-147.
P100370367-V
FTD-HT-66-691

Liquid Metal in the Electromagnetic Field, by I. M. Kirko.
RUSSIAN, bk, Zhidkiy Metall V Elektromagnitnom Pole, 1964, pp 1-160.
P100015368-V
FTD-MT-65-535

Characteristics of the Segregation of Alloying Elements in Gray Cast Iron, by N. I. Repina.
UKRAINIAN, per, Dopovidi akad Nauk UkrSR, Seriya A, No 3, 1967, pp 186-190.
HB 7315

On the Nature of the Processes Occurring in the Tempering of Cold-Worked Medium-Carbon Steel, by K. F. Starodubov.
UKRAINIAN, per, Dopovidi Akad. Nauk UkrSR, Seriya A, No 3, 1967, pp 271-275.
HB 7316

Effect of Preliminary Plastic Deformation on the Changes in Structure During the Tempering of As-Quenched 1% Carbon Tool Steel U 10, by N. I. Chernyak.
UKRAINIAN, per, Dopovidi Akad. Nauk UkrSR, Seriya A, No 3, 1967, pp 275-278.
HB 7313

Slide Fasteners Made of Coils or Twists of Filaments or Strips of Synthetic Material and Process for the Manufacture Thereof, by Bonner Kunststoff, 7 pp.

BELGIAN, Patent No 564,589.

Dept of Comm
Patent Office

A Study of the Equilibrium Between HF-H₂O Gas and Slags of the CaO-CaF₂ and CaO-SiO₂-CaF₂ System, by H. Yuan-Sun.

CHINESE, per, Acta Met. Sinica, Vol 7, Jan 1964, pp 24-31.
BISI 5860

Influence of Slag Basicity and of Silicon Content in Ferromanganese on the Technical Economic Indicators of Blast Furnace Work, by I. Janik.

CZECH, per, Hutn Listy, 1966, pp 153-159.
BISI 5337

Segregation of Heavy Rimmed-Steel Ingots, by A. Salak.

CZECH, per, Hutnicke Listy, Vol 21, No 7, 1966, pp 453-457.
HB 6948

Effect of the Quantity of Aluminum Added for Final Deoxidation to Roller Bearing Steel in Arc Furnaces Upon its Quality, by A. Cap.

CZECH, per, Hutnicke Listy, Vol 21, No 12, 1966, pp 839-843.
HB 6924

Flattening Wire to Produce Strips with Rounded Edges, by F. Wiesner, E. Tichopadova.

CZECH, per, Hutnik, Vol 16, No 2, 1966, pp 76-79.
BISI 5284

Reheating and Shaping of Ingots of Roller-Bearing Steel, by J. Jech & P. Huml.

CZECH, per, Hutnik, Vol 16, No 10, 1966, pp 486-488.
HB 7041

Effect of Temperature and Shape Factor $(L/H/D)$ Ratio of Ingots Upon Closing up of Internal Defects in Forgings, by B. Sommer & L. Jilek.

CZECH, per, Hutnik, Vol 17, No 7, 1967, pp 341-344.
HB 7275

The Production of High-Basicity Sinter, by Zd. Kocourek.
CZECH, per, Hutnik, Vol 17, No 8, 1967, pp 371-372.
HB 7273

Short Blast Furnace Run on Pellets, by Z. Puncocchar.
CZECH, per, Hutnik, Vol 17, No 8, 1967, pp 372-374.
*HB 7274

Measuring the Permeability of Fibers Made from Artificial Matter, by I. Cabak, A. Martoch, 12 pp.
CZECH, per, Jesma Mecharika a Optika, No 8, 1964, pp 240-243. PI00370567
FTD-HT-66-442

Review of High Yield Steels for Welded Structures and Pressure Vessels, by H. Huizinga.
DUTCH, per, Lassymposium, Stichting Nederlands Instituut voor Lastechiek, 1966, pp 5-25.
BISI 5307

Metallurgical Aspects of the Welding of High-Yield-Strength Steels, by C. F. Berkhout & P. H. van Lent.
DUTCH, per, Lassymposium, Stichting Nederlands Instituut voor Lastechiek, 1966, pp 33-41.
BISI 5308

Temper Embrittlement, by J. H. Valentijn.
DUTCH, per, Metalen, Vol 20, Nov 1965, pp 347-350.
BISI 5430

A Study of Chromium as a Metallic Bonding Diffusion Barrier Between Uranium and Aluminum, by M. Foure, H. Monti.
FRENCH, rpt, EUR-413.f, 110 pp.
AEC-tr-6905

Theory of Prismatic Cross-Slip of Dislocations in the Vicinity of Precipitations, by H. Gleiter.
FRENCH, per, Acta Met., Vol 15, July 1967, pp 1213-1221.
AEC-IS-Trans-71

Experientnal Studies of Prismatic Cross-Slip of Dislocations in the Vicinity of Coherent Strained Precipitations, by H. Gleiter.
FRENCH, per, Acta Met., Vol 15, 1967, pp 1223-1228.
AEC-IS-Trans-72

Flame Radiation Studies Carried Out on Behalf of the Natural Gas Flame Study Group (G.E.F.G.N), by P. Lhospied, Y. Reveillard.
FRENCH, per, Association Technique de l'Industrie du Gas de France, 10-19 Jun 1965, pp 1034-1075.
BISI 5306

Quantitative Electron Microprobe Analysis, by C. Zeller.
FRENCH, per, Comptes Rend., Vol 263, Series C, Nov 2, 1966, pp 1050-1053.
BISI 6051

Specific Heat and Magnetic Susceptibility of Solid Solutions of Yttrium Containing Small Amounts of Gadolinium, by Y. Allain, J. Bonnerot.
FRENCH, per, J Phys., Vol 28, 1967, pp 98-106.
AEC-ANL-Trans-513

Ore Sampling, by P. Gy.
FRENCH, per, Rev Ind Minerale, Vol 48, No 6, 1966, pp 438-476.
BISI 5340

The Difficulties of Gas Sampling from the Point of View of its Continuous Analysis, by J. L. Fountenteze.
FRENCH, per, Rev. Met., Vol 64, Jan 1967, pp 61-70.
BISI 5885

The Effect of Composition and Heat Treatment on Stress Corrosion in Low Alloy Steels, by U. Quaranta Cabral.
FRENCH, per, Rev. Met. Mem. Sci., Vol 64, July/Aug 1967, pp 615-623.
BISI 6049

Spectrometric Analysis of Non-Metallic Materials in Steel Works Laboratories, by W. Brokopf.
GERMAN, per, Arch Eisenh., Vol 35, Dec 1964, pp 1161-1163.
BISI 5385

Development of Internal Stresses in Deformed Steels, Part I, by K. Kolb & E. Macherauch.
GERMAN, per, Arch. Eisenh., Vol 36, Jan 1965, pp 9-18.
BISI 5405

The Effect of the Ore Sequence on Reduction in the Blast Furnace, by H. Schanek.
GERMAN, per, Arch Eisenh., Vol 36, May 1965, pp 319-325.
BISI 5525

The Stress-Strain Diagram at the Yield Stress of Mild Steel, by A. Krisch & R. Lakshmanan.
GERMAN, per, Arch. Eisenh., Vol 38, June 1967, pp 443-446.
BISI 5844

Bending and Internal Stresses of Strip, by E. Gorissen.
GERMAN, per, Eleoh, Vol 13, Dec 1966, pp 640-646.
BISI 5605

Reactions Occurring During the Formation of Primary Deoxidation Products in Steel, by H. Straube & G. Kuhnelt.
GERMAN, per, Archiv Eisenhüttenwesen, Vol 38, No 7, Pt 1, 1967, pp 509-518.
HB 7228

X-Ray Fluorescence Analysis of Stainless Steels, by H. de Laffolie.
GERMAN, per, DEW - Technische Berichte, Vol 7, No 2, 1967, pp 115-120.
HB 7266

Nature and Distribution of Oxide Inclusions in Steels Partly-Killed in Various Ways, by K. Wick, et al.
GERMAN, per, Arch. Eisenh., Vol 38, No 9, 1967, pp 701-710.
*HB 7279

Influence of Carbonization Gases on Bituminous Coal Under Pressure, by G. Huck.
GERMAN, per, Erdol u. Kohle, Vol 19, Aug 1966, pp 572-574.
BISI 5345

Influence of Welds on the Pressure Drop in Large Welded Pipes, by O. Conrad & J. Brandts.
GERMAN, per, Bänder Eleche, June 1963, pp 293-297.
BISI 5553

A High Pressure Diffusion Cloud Chamber with Machine Cooling, by E. Greiner.
GERMAN, per, Exp Tech Phys, Vol 13, 1965, pp 191-203.
AEC-ANL-Trans-525

Conversion of Existing Welding Mills to High Frequency Induction Heating, by K. Flick.
GERMAN, per, Bänder Eleche, Vol 8, Feb 1967, pp 70-76.
BISI 5816

Titanium Process of Steel, by G. Ebersbach & E. Mey.
GERMAN, rpt, First Międzynarodowe Sympozjum Metaloznawstwa i Obróbki Ciepłej, Warsaw, 24-27 October, 10 pp.
*FTD-HT-23-1658-67C

The Application of the Schmidt Concrete Testing Hammer to the Testing of Refractory Brick, by P. Artelt.
GERMAN, per, Ber. DKG., Vol 43, June 1966, pp 436-439.
BISI 5276

Production and Utility of Vacuum Steel in the Foundry, by W. Coupette.
GERMAN, per, Giesserei, Vol 53, No 8, 1966, pp 224-229.
HB 7300

The Determination of Hot Ductility of Steels by Torsion Testing, by J. Langerweger and H. Trankler.
GERMAN, per, Berg- und Hütten Monatsh. Vol 112, Jan 1967, pp 20-33.
BISI 5593

Penetration Phenomena with Steel Castings Using Different Moulding-Sand Mixtures, by H. Lopau & H. Hoffmeister.
GERMAN, per, Giesserei, Vol 53, Oct 27, 1966, pp 739-748.
BISI 5610

The Electroslag Remelting Process, by W. Holzgruber.
GERMAN, per, Berg- und Hüttenm. M., Vol 112, No 9, 1967, pp 269-271.
HB 7330

Annual Review of Spheroidal Graphite Cast Iron - Part 3, by H. Trager.
GERMAN, per, Giesserei, Vol 53, Oct 27, 1966, pp 755-757.
BISI 5686

The DH Vacuum Degassing Process and Alloying of Fluid Steel, by F. Oeters.
GERMAN, per, Paraphlet, Hoesch AG., 11 pp.
BISI 5883

Injection of Fuels into the Blast Furnace, by
W. Wenzel.
GERMAN, per, Klopzig Fachberichte, Vol 72, No 10,
1964, pp 379-385.
HB 6941

On the Usefulness of TTT Diagrams for the Heat
Treatment of Steel Forgings, by D. Bobbert.
GERMAN, per, Klopzig Fachberichte, Vol 74, No 5,
1966, pp 203-209.
HB 7042

Development and Service Performance of Refractory
Lining of a D-H Degassing Plant Coupled with a
Continuous Casting Machine, by K. Bick & W.
Weinreich.
GERMAN, per, Klopzig Fachberichte, Vol 75, No 1,
1967, pp 43-47.
HB 7171

A Simple Device Developed for Recording Defects
Uncovered During Ultrasonic Testing of Sheet, by
H. J. Kopineck.
GERMAN, per, Materialprufung, Vol 9, No 9, 1967,
pp 339-342.
HB 7308

On the Technology of Forging Steels Difficult to
Work, by H. Tarmann.
GERMAN, per, Neue Hütte, Vol 11, No 1, 1966,
pp 101-114.
HB 7247

Determination of Mean Specific Rolling Resistance,
by G. Nikitin.
GERMAN, per, Neue Hütte, Vol 12, Mar 1967,
pp 153-156.
BISI 5797

Development of the Plasma Melting Process. Part I
On Electrical Conditions and Plant, by K.
Spiegelberg.
GERMAN, per, Neue Hütte, Vol 12, No 9, 1967,
pp 542-545.
HB 7291-1

On the Development of the Plasma Melting
Process, Part II. Metallurgical Studies and
Results, by F. Ebeling, et al.
GERMAN, per, Neue Hütte, Vol 12, No 9,
1967, pp 546-550.
*HB 7292

Researches into the Continuous Steel Casting
Process and its Introduction into the USSR In-
dustry, by V. S. Rutes.
GERMAN, per, Neue Hütte, Vol 12, No 10, 1967,
pp 586-590.
HB 7327

Chemical Composition and Structure of Remelted
Iron from an Industrial Remelt Furnace as a Function of
the Furnace Operation, Part 1, by H. Knuppel.
GERMAN, per, Radex Rund, No 1, 1966, pp 3-23.
BISI 5359

The Effects of Oxygen Purity on Speed and Gas
Consumption in Oxygen Cutting, by K. F. Mewes.
GERMAN, per, Schweissen Schneiden, Vol 17, Feb
1955, pp 58-59.
BISI 5387

Carbon-Dioxide Shielded Arc Welding at High Currents
and Voltages, by W. Hummertsch.
GERMAN, per, Schweisstechnik, Vol 16, No 9, 1966,
pp 405-409.
HB 7284

Melting Behaviour of Carbon-Containing Sponge
Iron in the Rotary Melting Furnace, by H.-D.
Pantke, J.-T. Wasmuth.
GERMAN, per, Stahl Eisen, Vol 86, Aug 1966,
pp 1078-1083.
BISI 5602

Effect of Different Cooling Conditions on the
Properties of Plain Carbon Steel Rod During
Rolling in a Continuous Rod Mill, by B. Huszy &
J. Petersen.
GERMAN, per, Stahl Eisen, Vol 87, Jan 26, 1967,
pp 89-94.
BISI 5619

Manufacture and Processing of Wire Rod Cooled
Under Controlled Conditions - Part I, by P. Funke.
GERMAN, per, Stahl Eisen, Vol 87, Mar 23, 1967,
pp 293-299.
BISI 5649

The Development of Surface Defects During the Hot-
Rolling of 5.5 mm Steel Wire-Rod and Their Impor-
tance for Wire Processing, by P. Funke.
GERMAN, per, Stahl Eisen, Vol 87, Mar 23, 1967,
pp 318-331.
BISI 5652

Scientific
Materials (Contd)

Disintegration of Iron-Rich Ore Pellets During Reduction, by K. Meyer & H. Rausch.
GERMAN, per, Stahl Und Eisen, Vol 87, No 11, 1967, pp 654-660.
HB 7229

Processes Taking Place in the Dissolution of Hard vs. Soft-Burnt Lime in Slags from the Basic Oxygen Furnace, by G. Konig & H. Rellermeyer.
GERMAN, per, Stahl Und Eisen, Vol 87, No 18, 1967, pp 1071-1077.
HB 7264

Manufacture of Seamless High-Grade Steel Tubes by the Ehrhardt Process in a Highly Automated Plant, by F. Goedecke.
GERMAN, per, Stahl Eisen, Vol 87, Sept 21, 1967, pp 1143-1152.
BISI 6050

Studies of Heat Transfer in Blast Furnace Charge Materials, by H. P. Bear, H. Krainer.
GERMAN, per, Techn Mitt Krupp Forschungsber, Vol 24, Mar 1966, pp 25-47.
BISI 5341

Determination of Metallic Bivalent and Trivalent Iron Simultaneously Present in Steelworks Products, by G. Kraft & J. Fischer.
GERMAN, per, Z. Anal. Chem., Vol 197, 1963, pp 217-219.
BISI 5208

The Destruction of Metals as the Result of the Impact of Water Drops at High Speed, by H. Pieger.
GERMAN, per, Z. Metallk., Vol 57, Sept 1966, pp 693-699.
BISI 5642

Personnel News Within the Ministry of Metallurgy and Machine Industry and the Enterprises Under its Jurisdiction, 7 pp.
HUNGARIAN, per, Koho es Gepipari Kozlony, Vol 17, 1967, p 1.
JPRS 43895

Against Corrosion of Metals, 30 pp.
HUNGARIAN, per, Technika, Vol XI, No 2, 1967.
ACRI J-3760
ID 2204054767

Fatigue in Sintered Materials, by A. Gollo
ITALIAN, per, Mat. Ital., No 7, 1967, pp 533-540.
*HB 7281

Scientific
Materials (Contd)

Problems and Realisations of Today's Railways, by M. Cirillo.
ITALIAN, per, Tecnica Professionale Movimento and Commerciale, Oct 1966, pp 181-187.
BISI 5998

Development of Resistance Cavitation Erosion Alloy, by S. Watanabe & M. Maeda.
JAPANESE, per, Hitachi zosen giho, Vol 25, 1964, p 1.
ILL Ref: 9022.065 (2585)

Permanent Mould Wash, by M. Isotani.
JAPANESE, per, Nagoya Kogyo Gijutsu Shikensho Hokoku, Vol 12, Sept 1963, pp 432-437.
BISI 5771

Results of Industrial-Scale Use of a Pulsating Blast Furnace, by K. Kurota.
JAPANESE, per, Tetsu To Hagane, Vol 53, No 3, 1967, pp 254-256.
HB 7307

Hot Workability of 13% Chromium Stainless Steel, by T. Mimino.
JAPANESE, per, Tetsu To Hagane, Vol 53, No 7, 1967, pp 834-837.
HB 7107

Effect of Delta Ferrite on the Piercing of Seamless Tube of 13% Cr Stainless Steel, by T. Mimino.
JAPANESE, per, Tetsu To Hagane, Vol 53, No 11, 1967, pp 1321-1323.
HB 7297

X-Ray Fluorescence Methods for Determination of the Thickness of Coating Materials on Steel, by O. Kamori & I. Kawashima.
JAPANESE, per, Tetsu To Hagane, Vol 53, No 11, 1967, pp 1356-1359.
HB 7336

Effect of the Chromizing Process of Austenitic Alloys on Their Resistance to the Vanadium Corrosion, by B. Francsik.
POLISH, rpt, First Międzynarodowe Sympozium Metaloznawstwa i Obróbki Ciepłej. Warsaw, 24-27 October 1967. 12 pages
*FTD-HT-23-1658-67C

Scientific
Materials (Contd)

Effect of Vacuum Deoxidation in Ladle and Remelting in Vacuum Arc Furnace Upon the Quality of Ball Bearing Steel, by W. Luty.
POLISH, per, Hutnik, Vol 32, No 11, 1965, pp 383-394.
HB 6818

Complex Layers of Borides on Unalloyed Steels, by H. Deger.
POLISH, rpt, Miedzynarodowe Sympozjum Metaloznawstwa i Odrobki Cienkiej. Kombinierte Boridschichten auf Unlegierten Stahlen, 24-27 Oct 1967, 12 pp.
*FTD-HT-23-119-68

Selection of Emulsified Lubricants for the Cold Rolling of Steel Strip. Part II: Experimental., by W. Gorecki & J. Madejski.
POLISH, per, Prace Instytutow Hutniczych, Vol 17, No 5, 1965, pp 309-314.
HB 6866-II

Production of Tar-Bonded Dolomite Refractories and Results of a First Trial at a Russian Basic Oxygen Furnace Plant, by W. Bieda.
POLISH, per, Prace Rady Naukowo-Techn. Huty Im. Lenina, No 15, 1964, pp 108-118.
HB 6675

The Oxidation-Reduction Diagram, by D. Masse.
PORTUGUESE, per, Met. AEM, Vol 22, Jul 1966, pp 523-532.
BISI 5672

Determination of the Characteristics of Sinters Prepared at the "President Varga" Plant of Cia.
PORTUGUESE, per, Met. AEM, Vol 22, July 1966, pp 533-544.
BISI 5671

A Concrete Crossties For The Swedish Railways, 4 pp.
SWEDISH, per, Jarnvagen, No 6-7, June-July 1967, p 3.
DIA LN 145-68

Use of Radioactive Isotopes in the Mining and the Iron and Steel Industries, by L.-G. Erwall.
SWEDISH, per, Jernkont Ann, Vol 142, No 7, 1958, pp 369-397.
BISI 5825

Concrete.
SWEDISH, per, S. J. Nytt, No 10, 1 June 1967, pp 6-7.
DIA LN 42-68

Scientific
Mathematical Sciences

New Methods for Solving Elliptic Equations, by D. E. Brown.
RUSSIAN, bk, Amsterdam, 1967, 357 p.
MLL Ref: 51

Methods of Contour Integration, by M. L. Rasulov.
RUSSIAN, bk, Amsterdam, 1967, 439 p.
MLL Ref: 51

Digital Smoothing Filters, by Yu. M. Korshunov.
RUSSIAN, rpt, AN UKRSSR. Metody i sredstva pre-brasoviya informatsii, Kiev, Naukova Dumka, 1966, pp 116-126.
*FTD-HT-24-11-68

Transistorized Digital Potentiometer, by K. A. Netrebenko, V. B. Reutov.
RUSSIAN, per, Byulletin' Tekhniko-Ekonomicheskoy Informatsii, No 12, 1966, pp 45-46.
*FTD-HT-23-11-68

Estimation of the Error Involved in the Numerical Integration of Differential Equations by the Adams Extrapolation Method, by N. S. Bakhvalov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 104, 1955, pp 683-686.
*AEC AERE

Some Properties of Cauchy Integrals and Their Application, by V. V. Ivanov.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 121, No 5, 1958, pp 793-794.
*NASA TT F-11,553

Riemann Boundary Value Problem with Continuous Coefficients, by I. B. Simonenko.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 124, No 2, 1959, pp 278-281.
*NASA TT F-11,551

Elliptic Equations in Unbounded Domains, by M. I. Fraidlin.
RUSSIAN, per, AN SSSR, Doklady, Vol 172, No 6, 1967, pp 1286-1289.
Dept of Navy/ APL/JHU T-2075

Effect of Geometrical Parameters of Curvilinear Annular Diffusers on their Efficiency, by O. I. Didenko.
RUSSIAN, per, Izv AN SSSR Energ i Transp, Vol 6, 1966, pp 154-160.
MLL Ref: 9022.03 (4148)

Approximate Calculation of the Interaction
Between a Supersonic Flow and a Laminar Layer
in the Separated Flow Region, by E. N. Bondarev.
RUSSIAN, per, AN SSSR, Izv. Mekh. Zhidkosti i
Gaza, No 5, 1966, pp 118-120.
Dept of Navy/ APL/JHU T-2088

On the Conditions of Applicability of the Boltzmann
Equation, by M. N. Kogan.
RUSSIAN, per, AN SSSR, Izv. Mekh. Zhidkosti i
Gaza, No 6, 1966, pp 3-9.
Dept of Navy/ APL/JHU T-2094

Contribution to the Problem of Summation of
Fourier Series, by L. P. Lebedeva.
RUSSIAN, per, VUZ, Izv. Mat., No 3(58), 1967,
pp 50-58.
Dept of Navy/ APL/JHU T-2090

Stability Conditions for Solutions of a Linear
Second-Order Differential Equation with a Periodic
Coefficient, by I. I. Endovitskii.
RUSSIAN, per, VUZ, Izv. Mat., No 5, 1967, pp 28-33.
Dept of Navy/ APL/JHU T-2087

On Normal Coordinates, by V. V. Bulgakov.
RUSSIAN, per, Priladnaya Matematika i Mekhanika,
Vol 10, No 2, 1946, pp 273-290.
*FTD-MT-24-22-68

On the Defect Indices of Linear Operators in
Banach Space and on Some Geometric Questions,
by M. G. Krein & M. A. Krasnosel'skii.
RUSSIAN, per, Sbornik Trudov Inst Mat AN UkrSSR,
Vol 11, 1948, pp 97-112.
Dept of Navy/ APL/JHU TG 230-T530

The Fourier Transform for Abstract Set Functions,
by V. B. Korotkov & Yu. I. Gil'derman.
RUSSIAN, per, Sibirskii Mat Zh., Vol 5, No 4,
1964, pp 844-852.
Dept of Navy/ APL/JHU TG 230-T529

Linear Equations with Positive Operators, by
V. A. Bakhtin.
RUSSIAN, per, Sibirsk. Mat. Zh., Vol 8, No 3,
1967, pp 518-523.
*Dept of Navy/ APL/JHU J-1111

Fundamental Theorems on the Excitation of Hermitian
Operators and Some of their Applications to the
Theory of Orthogonal Polynomials and the Moment
Problem, by M. G. Krein & M. A. Krasnosel'skii.
RUSSIAN, per, Usp Mat Nauk, Vol 2, No 3(19),
1947, pp 60-106.
*Dept of Navy/ APL/JHU J-1100

On the Definition of Algorithms, by
A. N. Kolmogorov and V. A. Uspenskiy, 28 pp.
RUSSIAN, per, Usp. Mat. Nauk, Vol 13, No 4,
1958, pp 3-28.
P911005568
AEC ANL-TRANS-534

On the Absolute Convergence of Fourier Series,
by V. V. Zhuk.
RUSSIAN, per, Leningrad. Univ. Vestnik, Ser. Mat,
Mekhan i Astron, No 12, 1966, pp 128-129.
Dept of Navy/ APL/JHU T-2089

On the Harnach Inequality for Solutions of
Elliptic Differential Equations of the Second
Order, by S. N. Kruzhkov, L. P. Kuptsov.
RUSSIAN, per, Vestnik Moscow Univer, Seriya
I, Matematika, Mekhanika, No 3, 1964,
pp 3-14. P100370667-V
FTD-MT-64-559

On the Uniqueness of the Expansion in a Trigo-
nometric Series for Methods of Summation, by
M. I. Livshits.
RUSSIAN, per, Vestnik Moscow Univ Seriya I,
Matematika, Mekhanika, No 3, pp 15-24.
P100370667-V
FTD-MT-64-559

On a Uniqueness Theorem in the Theory of Hyper-
bolic Quasi-Linear Equations, by
N. N. Kuznetsov, Ch. Chi.
RUSSIAN, per, Vestnik Moscow Univ Seriya I,
Matematika, Mekhanika, No 3, pp 25-30.
P100370667-V
FTD-MT-64-559

About Direct Powers of Unary Algebras, by
O. A. Ivanova.
RUSSIAN, per, Vestnik Moscow Univ Seriya I,
Matematika, Mekhanika, No 3, 1964, pp 31-38.
P100370667-V
FTD-MT-64-559

The Derivation of Models of Liquid Media and
Solid Bodies From The Kinetic Equations of the
Averaged Force Field, by M. R. Korotkina.
RUSSIAN, per, Vestnik Moscow Univ Seriya I,
Matematika, Mekhanika, No 3, 1964, pp 39-50.
P100370667-V
FTD-MT-64-559

On the Stability of Flow of a Viscoplastic Medium Between Planes with a Slot, by G. P. Prikazchikov.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 51-55.
P100370667-V
FTD-MT-64-559

On the Asymptotic Theory of Relaxation Oscillations in Systems with One Degree of Freedom. II. Calculation of the Period of the Limit Cycle, by N. Kh. Rozov.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 56-65.
P100370667-V
FTD-MT-64-559

The Motion of a Slender Body in a Liquid of Variable Depth, by V. A. Yeroshin.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 66-69.
P100370667-V
FTD-MT-64-559

About a Case of Stability of Transient Motion of a Top on a Plane, by V. M. Norozov.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 70-74.
P100370667-V
FTD-MT-64-559

Uniqueness of Generalized Solution of the Cauchy Problem for Hyperbolic System of Two Quasilinear Equations, by N. N. Kuznetsov, Ch. T. Chi, 5 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 3-6. P100371867-V
FTD-MT-64-560

The Stability of a Zero Solution of a System of Linear Equations During Constant Perturbations, by L. V. Khokhlova, 11 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 7-15. P100371867-V
FTD-MT-64-560

Du Bois-Reymond Theorem for Generalized Integrals and Trigonometric Series Summable by the Abel-Poisson Method, by V. A. Skvortsov, 6 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 16-20. P100371867-V
FTD-MT-64-560

Asymptotic Behavior of Solutions of Certain Classes of Differential Equations with Small Parameter with the Highest Derivative, by A. B. Yasil'yeva, A. B. Zimin, 11 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 21-29. P100371867-V
FTD-MT-64-560

Group Connections of Absolute Parallelism Realizable on the Hypersurfaces of an Affine Space, by A. K. Rybnikov, 16 pp.
RUSSIAN, per, Moscow Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 30-41. P100371867-V
FTD-MT-64-560

Stability of Dissipative Systems, by S. Ya. Stepanov, 10 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik, Seriya I, Matematika, Mekhanika, No 4, 1964, pp 59-66. P100371867-V
FTD-MT-64-560

Certain Theorems About Probability Search in a Determined Field, by P. B. Kharlamov, 10 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964. P100371767-V
FTD-MT-65-02

An approximate Method of Solution of Dirichlet Problem, and Estimates of the Rate of Convergence of Solution of Difference Equations to Solutions of Elliptic Equations with Discontinuous Coefficients, by V. Ya. Rivkind, 18 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964. P100371767-V
FTD-MT-65-02

Asymptotic Distribution of Third Order Integral Matrices, by Yu. V. Linnik & B. F. Skubenko, 14 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964. P100371767-V
FTD-MT-65-02

Dividing Partitions for Certain Families of Measures, by A. M. Kagan & V. M. Sudakov, 6 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964. P100371767-V
FTD-MT-65-02

Flagtensar Algebra, by R. I. Pimenov, 6 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya
Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

Norms of Linear Polynomial Operators in Connection
with Problems of Approximation of Continuous
Functions, by N. A. Sapogov, 18 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya
Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

On Absence of a Positive Discrete Spectrum for
the Laplacian Operator of the Dirichlet Problem
in Certain Unbounded Regions, by A. G. Ramm,
6 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya
Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

One Simple Method of Establishing Independence
of Statistics, by T. S. Feygel'son, 4 pp.
RUSSIAN, per, Universitet. Vestnik, Seriya
Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

An a Priori Estimate for Some Quasi-Linear
Parabolic Systems. I., by T. D. Venttsel.
RUSSIAN, per, Vestnik Moskovskogo Universiteta,
Seriya Matematika, Mekhanika, No 3, 1967,
pp 27-31.
Dept of Navy/ APL/JHU TG 230-T532

Automated Synthesis of Digital Automata on the
Basis of the LYAPAS Algorithmic Language, by A.
D. Zakrevskiy.
RUSSIAN, per, Vychislitel'nyye Sistemy, No 18,
1965, pp 5-33.
*FTD-HT-23-10-68

Studies in Number Theory, by A. V. Malyshev.
RUSSIAN, per, Zapiski Nauchnykh Seminarov
Leningrad Otdel Matematicheskogo Inst im
V. A. Steklova AN SSSR, Vol 1, 1966.
Plenum Press

Convex Polyhedra with Regular Faces, by
V. A. Zalgaller.
RUSSIAN, per, Zapiski Nauchnykh Seminarov
Leningrad Otdel Matematicheskogo Inst im
V. A. Steklova AN SSSR, Vol 2, 1967.
Plenum Press

Some Aspects of Potential Theory and Function
Theory for Domains with Irregular Boundaries,
by Yu. D. Burgo, V. G. Maz'ya.
RUSSIAN, per, Zapiski Nauchnykh Seminarov
Leningrad Otdel Matematicheskogo Inst im
V. A. Steklova AN SSSR, Vol 3, 1967,
Plenum Press

Studies in Structural Mathematics and Mathematical
Logic, by A. O. Slisenko.
RUSSIAN, per, Zapiski Nauchnykh Seminarov
Leningrad Otdel Matematicheskogo Inst im
V. A. Steklova AN SSSR, Vol 4, 1967.
Plenum Press

Use of the Method of Differential Descent for
the Solution of Nonlinear Systems, by S. I.
Al'ber and Ya I Al'ber.
RUSSIAN, per, Zhurnal Vychislitel'noy Matematiki
i Matematicheskoy Fiziki, Vol 7, No 1, 1967.
pp 14-32.
*FTD-HT-23-23-68

The Structure of Matrices which are Inverse to
the Correlation Matrices of Random Vector
Processes, by L. M. Kutikov.
RUSSIAN, per, Zh. Vychis. Mat. i Mat. Fiz.,
Vol 7, No 4, 1967, pp 764-773.
*Dept of Navy/ APL/JHU J-1105

A Method for Solving Systems of Nonlinear Algebraic
and Transcendental Equations, by M. D. Maergoiz.
RUSSIAN, per, Zh. Vychislitel'noi Mat i Mat Fiz,
Vol 7, No 4, 1967, pp 869-874.
Dept of Navy/ APL/JHU T-2086

Apparatus for Syntactical Control of Programs
Written in ALGOL, by I. V. Val'bitskiy, G. A.
Mikhaylov.
RUSSIAN, Patent No 191230, Class 42M, 14.
*FTD-HT-23-30-68C

Investigation of the Formulae for Computing the
Quasigeoid Heights, the Deflection of the Vertical
on the Physical Surface of the Earth by the
Astronomic-Gravimetric Levelling, by the Model
Method, by Lai Ching-wen, Ch'iu Chi-hsien.
CHINESE, per, Acta Geodetica et Cartographica
Sinica, Vol 5, No 1, pp 47-62.
ACIC TC 1150

Scientific
Mathematical Sciences (Contd)

On the Determination of Functions by their Integral Value Along Certain Manifolds, by Johann Radon. GERMAN, per, Ber. Über die Verhandlungen der Sächsisch. Akad. Wiss. Leipzig, Vol 69, 1917, pp 262-277.
Dept of Navy/ APL/JHU T-2079

A Method of Calculation for the Second Main Problem of Compressible Subsonic Flow Through Cascades, by J. Brechling. GERMAN, per, Zeit Angew Math Mech, Vol 47, 1967, pp 163-168.
AEC-K-Trans-27

Yen My District -- The First Banner at Ninh Binh in Statistical Work, by M. Q., 6 pp. VIETNAMESE, per, Thong Ke, No 1, 1967, pp 19-21.
JPRS 43885

Comprehensive Analysis of Statistical Indices on the Use of Construction Machines, by Tu Dien, 7 pp. VIETNAMESE, per, Thong Ke, No 1, 1967, pp 22-24, 28.
JPRS 43885

Some Generalized Equations for Methods of Potential Field Representation, by Konstantin Bannjanovic. YUGOSLAVIAN, per, Zavod za Geoloska i Geofizicka Istrazivanja, Vesnik, Primenjena Geofizika, Vol 7, Series C, 1966, pp 39-39.
*ACIC TC-1368

Mechanical, Industrial, Civil & Marine Engineering

Incandivity of Complex Inductive Circuits, by V. I. Serov. RUSSIAN, per, AN SSSR Institut gornogo dela in A. A. Skochinskogo, Moscow, 1966, 93 pp.
ILL Ref: 8313.4 (5407)

Permeable Hydro-Pneumatically Raised Vehicle Suspension, by R. A. Rozov. RUSSIAN, per, Avtonobil'naya promyshlennost', Vol 8, 1965, pp 20-22.
ILL Ref: RTS 3301

Normative Documents Require Strict Observance, 6 pp. RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 10, Oct 67, pp. 27-29.
JPRS 44,017

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Network Planning Introduced at Heavy Industry Construction Sites in Kazkh SSR, by N.I. Medvedkov, 5 pp. RUSSIAN, per, Byulletin Stroitel'noy Tekhniki, Moscow, No. 10, Oct 67, pp. 36-38.
JPRS 44,017

On the Development of Overall Network Diagrams, 5 pp. RUSSIAN, journal, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 12, Dec 67, pp. 5-7.
JPRS 44,167

Methods of Improving Designing Organizations in Kazakhstan, by I.V. Tarasov, 5 pp. RUSSIAN, journal, Byulleten' Stroitel'noy Tekhniki, Moscow, No. 12, Dec 67, pp. 43-44.
JPRS 44,167

Special Train With The Arrangement For Loading and Unloading of Long On Line and Station, by Stanislaw Sielinski & Stanislaw Zimnoch, 24 pp. RUSSIAN, per, Drogovoz, Mar 1967, pp 50-53; 68-73.
DIA LN 168-68

A Pneumatic Isodromic Controller with a Broad Throttling Range, by V. I. Levin, 15 pp. RUSSIAN, per, Elek. Entsiklopediya Izmereniy, Kontrol' i Avtomatizatsii, No 3, 1964, pp 39-42. FI00372867
FTD-HT-66-773

Output of "Strengthened" Machinery for the Far North, by A. Biryukov and B. Svyatov, 6 pp. RUSSIAN, np, Ekonomicheskaya Gazeta, No 39, Sept 1967, p 31.
JPRS 43381

The LKZ K-800-240-1 Steam Turbine, by A. V. Levin & V. K. Ryzhkov. RUSSIAN, per, Energomashinostroenie, Vol 12, No 12, 1966, pp 2-6.
ILL Ref: 9022.03 (4149)

Experimental Investigation of the LKZ K-300-240 and K-800-240 Steam Turbine End Stages, by A. M. Markov. RUSSIAN, per, Energomashinostroenie, Vol 12, No 12, 1966, pp 18-20.
ILL Ref: 9022.03 (4151)

New Model Dump Trucks in Design Stage, by M. D. Glezin, 7 pp.
RUSSIAN, per, Gidrotekhnicheskoye stroitel'stvo, No 10, Oct 1967, pp 41-43.
JPRS 43606

Synthesis of Flat Mechanism, by I. I. Artobolevskiy, N. I. Levitskiy.
RUSSIAN, per, Gosudarstvennoye Izdatel'stvo Fiziko-Matematicheskoy Literatury, 1959, 1084 pp.
*FTD-MT-24-6-68

Numerical Solution of a System of Two-Dimensional Unsteady Navier-Stokes Equations for a Compressible Gas in a Closed Region, by V. I. Poleshchayev.
RUSSIAN, per, AN SSSR, Izvestiya. Mekhanika Zhidkosti i Gasa, No 2, 1967, pp 103-111.
*FTD-HT-23-9-68

Pulling Capacity of Flat Transmission Bolts, by V. I. Belyaev.
RUSSIAN, per, Izvestiya VUZ mashinostroyeniye, Vol 1, pp 90-100.
NLL Ref: RTS 3242

A Printing Device with the EUM-23, by Ye. T. Darov.
RUSSIAN, per, Kharkov. Institut Gornogo Mashinostroyeniya, Avtomatiki i Vychislitel'noy Tekhniki. Probury i Sistemy Avtomatiki, Promyshlennaya Telemekhanika, No 2, 1966, pp 108-110.
*FTD-HT-23-90-68

Modern Technology in the Chemical Machinery Industry and Ways for Further Development, by A. V. Kuramzhin, D. T. Loganov, 8 pp.
RUSSIAN, per, Khimicheskoye i neftyanoye mashinostroyeniye, No 10, Oct 1967, pp 5-9.
JPRS 43540

Container and Load Transfer of Freight in River Transport, by A. Ye. Sukolenov & N. P. Alekseyev.
RUSSIAN, bk, Konveyernyye i Paketnyye Perevozki Gruzov, 1967, pp 3-183.
*ACSI J-4123
ID 2204000768

Special Characteristics of Upsetting Under Pulsed Loading, by I. A. Noritsyn, Yu. G. Kalpin.
RUSSIAN, per, Kuznechno-Shtampovoye Proizvodstvo, No 11, 1966, pp 5-7.
*FTD-HT-23-20-68

Trends in the Development of Technology for Production of Large Forgings, by L. V. Prokhorov.
RUSSIAN, per, Kuznechno-Shtampovoye Proizvodstvo, No 1, 1967, pp 1-3.
*FTD-HT-23-21-68

Experiments for Closing Up of Defects When Low-Ductility Steel is Upset and Drawn, by V. I. Zalesskii & Yu. I. Kozlov.
RUSSIAN, per, Kuznechno-Shtampovoye Proiz., Vol 6, 1966, pp 15-19.
NLL Ref: RTS 4074

Distribution of Temperatures through the Cross-Sections of Ingots While Cooling in the Ingot Mould and in Heat Insulated Cars, by V. I. Zalesskii.
RUSSIAN, per, Kuznechno-Shtampovoye Proiz., Vol 8, 1966, pp 9-11.
NLL Ref: RTS 4063

Self-Lubricating Polymeric Materials in Roller Bearings, by V. E. Vaynshteyn.
RUSSIAN, per, Mashinostroitel', No 5, 1966, pp 18-20.
*FTD-HT-23-67-68.

Influence of Radiant Energy Transfer in the Stagnation Region, by V. K. Vertushkin, V. N. Zhigulev.
RUSSIAN, per, Mekhanika Zhidkosti i Gasa, No 2, 1967, pp 30-32.
*FTD-HT-23-9-68

Unit for Controlling Operations in a Special-Purpose Control Digital Computer, by V. G. Kossovskiy.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Upravleniya, No 1, 1966, pp 9-13.
*FTD-MT-24-16-68

Scientific Problems for Mechanisation of Construction, by S. S. Atayev, 13 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'stva, No 11, Nov 1967, pp 27-30.
JPRS 43971

Corrosion Resistance of Heating Elements in Carbon-Containing Atmospheres, by N. A. Patrina & N. F. Shur.
RUSSIAN, per, Metallov term obrab met., Vol 5, 1966, pp 40-43.
NLL Ref: 9022.4 (67/114)

Latvian Microbus Plant to be Constructed, by O. Ribovskaya and A. Ribovskiy, 3 pp.
RUSSIAN, per, Nauka i Tekhnika, No 10, Riga, Oct 67, pp. 24-27.
JPRS 43,859

Determination of the Fatigue Limit in the Case of an Asymmetric Stress Cycle, by P. I. Mezhenstev. RUSSIAN, per, Nikolayev, Korablestroitel'nyy institut, Sudfotroyeniye morskoye sooruzheniya, Sudostroyeniye, No 2, 1966, pp 143-149.
*FTD-HT-23-117-68

INASH-II Equipment for Investigating the Mechanical Properties of Sheet Materials Under Unilateral Heating, by M. G. Lominskii & G. E. Vishnevskii.
RUSSIAN, per, 'Peredov. nauch-tekh i proizv. opyt Moscow, No 32-63-61/1, 1963.
NLL Ref: 5828,4F (12242)

On the Approximation Theory of Shells with Average Thickness, by O. Yu. Kalekin, 12 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 1, No 12, 1965, pp 29-37. P100362667
FTD-HT-66-530

On the Problem of the Vibration of Systems with Non-Linear Characteristics Subject to the Action of Random Forces, by M. F. Dimentberg.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 11, No 10, 1966, pp 10-15.
*FTD-HT-23-5-68

Atomic Powered Submarine Design.
RUSSIAN, bk, Proektirovaniye Atomnykh Podvodnykh Lokov, 1964.
Dept of Navy/NIC 2498

Experience in the Operation of the PSM-VNIRO Smoke Generators, by L. Sirata, M. Mi.
RUSSIAN, per, Rybnos Khoz. Vol 43, No 5, 1967, pp 5-8.
Dept. of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Aggregate ANR-1 for Threading Small Fish onto Rods, by G. E. Chudnovskii.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanization of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Electronic Thermocanometer for Ovens for Cold-Smoking of Fish, by A. P. Andreev, T. I. Kaganova.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanization of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Method for Discharging Fish from a Purse Seine by Means of a Drip-Net, by A. G. Abramov.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanization of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Methods of Obtaining High-Quality Design for Rural Construction Projects, 7 pp.
RUSSIAN, per, Sel'skoye Stroitel'stvo, No 9, 1967, pp 1-2.
JPRS 4338;

Review of Operation of the All-Union Scientific Research Institute of Construction and Road Machine-Building, by D. K. Simachev, 12 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 8, 1967, pp 8-11.
JPRS 43381

Cement Machine-Building in the USSR, by G. S. Yakovchik, 7 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 11, Nov 1967, pp 4-7.
JPRS 43971

Irrigation Machine-Building in the Years of Soviet Rule, by Yu. G. Mamaylov, 16 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No 11, Nov 1967, pp 7-11.
JPRS 43971

Specifications of New ETR-122 Excavator, by A.A. Babitskiy, et al., 6 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No. 12, Moscow, Dec 67, pp. 1-3.
JPRS 44,161

Special Cassette Mold for Panel Housing Construction, by I.M. Antoshchenko, et al., 8 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye Mashiny, No. 12, Moscow, Dec 67, pp. 17-20.
JPRS 44,161

Technical Specifications for New K-632
Installation Crane, by M.D. Tserlyuk,
9 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye
Mashiny, No. 12, Moscow, Dec 67, pp. 23-26.
JPRS 44,161

New DEK-161 Clamshell Crane Described, by
L.G. Blokhin, I.A. Toropov and N.I. Chumakov,
7 pp.
RUSSIAN, per, Stroitel'nyye i Dorozhnyye
Mashiny, No. 12, Moscow, Dec 67, pp. 26-28.
JPRS 44,161

Construction of Mineral Fertilizer Plant at
Dzhambul, by B. Pereberin, 6 pp.
RUSSIAN, newspaper, Stroitel'naya Gazeta, Moscow,
29 Nov 67, p. 2
JPRS 43,855

Some Problems in the Design of the Deckhouses
of Modern Ships, by N. V. Barabanov &
E. K. Borisov.
RUSSIAN, per, Sudostroenie, Vol 3, 1967, p 9.
NLL Ref: 9022.065 (2594)

The Propulsor of the Pump Type for Ships, by G.
I. Zotikov, 16 pp.
RUSSIAN, per, Sudostroyeniye, No 7, 1967, pp 5-9.
JPRS 43721

The Bathysplane "Atlant-1", by V.K. Korotkov,
7 pp.
RUSSIAN, per, Sudostroyeniye, Vol 57, No. 7,
Leningrad, July 67, pp. 14-17.
JPRS 44,057

Utilizing Natural Resources in Engineering, 5pp.
RUSSIAN, per, Tekhnika-Molodezhi, No. 11, Moscow,
1967, pp 6-7.
JPRS 44,157

Determination of the Actual Load-Bearing Capacity
of Piers No. 3-6 of the Port of Klaypeda, by
Zh. I. Baramidze, 23 pp.
RUSSIAN, per, Trudiy, Vol 14, 1966, pp 11-26.
DIA Ltr 16-68

Theoretical Bases for Increasing the Resolving
Power of Magnetic Recording on Steel Ropes, by
V. N. Rits.
RUSSIAN, per, Trudy MakIII, Vol 16, 1965,
pp 206-213.
NLL Ref: 8313.4 (5320)

The Effect of Corrosive Media on Insulating
Materials for Electrical Mining Equipment, by
L. A. Prudnikova.
RUSSIAN, per, Trudy VostNI, Vol 5, 1964, pp 90-94.
NLL Ref: 8313.4 (5269)

Causes of the Formation of Methane Layering in
Horizontal Mine Workings and Measures for its
Elimination, by A. L. Surkov.
RUSSIAN, per, Trudy VostNI, Vol 7, 1966, pp 3-13.
NLL Ref: 8313.4 (5475)

Automatic Control of Mine Cars on the Surface
at the No. 1 XIX Partsyazd Pit of the Leninugol
Trust, by S. I. Vaisburd.
RUSSIAN, per, Ugol', Vol 1, 1960, pp 16-18.
NLL Ref: 9022.66 (1908)

Automatic Control of Skipwinding at Pit No. 1,
by L. I. Kovalev.
RUSSIAN, per, Ugol', Vol 1, 1960, pp 18-20.
NLL Ref: 9022.66 (1909)

Remote Control of Cagewinding, by E. E. Lavronenko.
RUSSIAN, per, Ugol', Vol 1, 1960, pp 20-23.
NLL Ref: 9022.66 (1910)

Some Characteristics of Helicopter Powerplants
With Direct Turbine Drive of Main Rotor, by
Yu. I. Dobryakov, A.F. Savostin, 26 pp.
RUSSIAN, bk, Vertoletnyye Gazoturbinnyye
Dvigateli, Mechanical Engineering Press, Moscow,
1966, pp. 90-111.
JPRS 44,128

Study of the Distribution of the Gas Stream
Emerging from a Gas-Turbine Engine Beneath the
Rotor, and of its Effect on the State of the Air
About a Single-Rotor Helicopter, by L. S. Rysin.
RUSSIAN, per, Vertoletnyye gazoturbinnyye dvigateli;
sbornik statey, Moscow, Izd-vo "Mashinostroyeniye",
1966, pp 112-144.
*FTD-MT-24-31-68

Wear and Performance Variation of Axial and
Centrifugal Compressor Stages Operating in
Dusty Air, by Yu. I. Shal'man, 44 pp.
RUSSIAN, bk, Vertoletnyye Gazoturbinnyye
Dvigateli, Mechanical Engineering Press,
Moscow, 1966, pp. 163-199.
JPRS 44,128

Progress Cited in Construction and Road Machine
Building, by Ye. S. Novoselov, 10 pp.
RUSSIAN, per, Vestnik Mashino-stroyeniya, No 10,
Oct 1967, pp 8-12.
JPRS 43670

Trends in Technical Progress in Heavy Machine Building, by M. N. Shchukin, 10 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 13-17.
JPRS 43670

Plans Outlined for Developing Power Machine Building, by A. A. Kanayev, 12 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 18-22.
JPRS 43670

Expanded Use of Diamond Tools Planned, by V. M. Zubkov, 7 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 38-40.
JPRS 43670

Importance Stressed of Efficient Designing of Machine Building Plants, by B. V. Vlasov & Ye. D. Sokolina, 12 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 76-81.
JPRS 43670

Organization Outlined in Machine Building Production Services, by B. Z. Mil'ner, 8 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 10, Oct 1967, pp 81-84.
JPRS 43670

Scientific Life. The Second All-Union Congress on Theoretical and Applied Mechanics, by S. V. Kalinin.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 90-91.
PI00370667-V
FTD-MT-64-559

Investigation of Change of Pressure Along Length and Ends of the Eiffel Chamber of the Supersonic Wind Tunnel, by B. A. Balanin, 6pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematika, Mekhanika i Astronomii, No 13, 1964.
PI00371767-V
FTD-MT-65-02

Experimental Investigation of the Initial Stage of Stream Formation, by A. I. Starshinov, 8 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematika, Mekhanika i Astronomii, No 13, 1964.
PI00371767-V
FTD-MT-65-02

The Turbulent Boundary Layer on a Penetrable Flat Plate, by I. P. Ginzburg & G. V. Kocheryzhenkov, 18 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematika, Mekhanika i Astronomii, No 13, 1964.
PI00371767-V
FTD-MT-65-02

Calculations of Height of Ventilation Stacks for Discharging Air Contaminated with Radioactive Materials, by V. M. Krupchatnikov, 15 pp.
RUSSIAN, per, Vodopriborostroyeniye i Sanitarnaya Tekhnika, No 10, 1967, pp 30-34.
JPRS 43977

Heat Insulation for Shelters, by M. Bodanskiy, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, No 10, Oct 1967, pp 26-27.
JPRS 43558

A New Highly Sensitive Ballistic Method of Testing Ferromagnetic Materials, by P. N. Goryunov.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 72, 1963, pp 73-84.
PI00372267-V
FTD-MT-65-408

Results of Industrialization of Housing Construction, by Yu. Rodin, 10 pp.
RUSSIAN, per, Zhiliishchnoye Stroitel'stvo, No 11, 1967, pp 14-16.
JPRS 43971

An Optimum Passive Filter, by A. S. Volkov.
RUSSIAN, Patent No 190946, 1967.
*FTD-MT-23-59-68E

The Development of Water Supply and of Sewers in Bulgaria, by Khito Tsankov, 9 pp.
BULGARIAN, per, Khidrotekhnika i melioratsii, No 6, Aug-Sept 1967, pp 163-166.
JPRS 43617

Hydroelectric Power Plant Construction in Bulgaria, by Engrs. Danyan Danyanov and Dimitur Dokov, 15 pp.
BULGARIAN, per, Stroitelstvo, No 8-9, Sept 1967, pp 28-32.
JPRS 43643

Motor Vehicle Maintenance And Repair Facilities, by T. Vasinski, 4 pp.
BULGARIAN, per, Transporten Glas, 18 Jan 1967, p 1.
DIA LI. 3-68

Several Problems Concerning the Theory of Vibration of Double-Layer, Round, Suspension Cable Structures, by Fu Ch'ien.

CHINESE, per, Ha-erh-pin-chien chu kung ch'eng hsueh yuen hsueh pao, No 4, 1964, pp 17-22.
*FTD-HT-23-47-68C

Steam Locomotives & Coal Bunkers, 14 pp.
CZECH, per, Zeleznicar, No 1, 1967, pp 1-4; 11; 17.
DIA LN 49-68

"1Y, 1X And Now, 1Z: A New Type of Diesel Locomotive for the Danish State Railways", 4 pp.
DANISH, per, Dansk Lokomotiv Tidende, Jul 1967, pp 8-9; 11.
DIA LN 227-68

Accelerator Tube Assembly Technology: Vinyl Acetate-Ceramic Bonding Process, by P. Bernard.
FRENCH, rpt, SEFS-TD-66/56.
AEC-BNL-tr-158.

Air Freight Packaging, by M. Maurer, 15 pp.
FRENCH, per, Industries et Techniques, No 93, Jul-Aug 1967, pp 307-312.
ACSI J-3603
ID 2204051567

ABC Defense Problems in the Development and Operation in Covered and Open Vehicles, by Dr. Ing. A. Koczy, 10 pp.
GERMAN, rpt, Mar 1967, pp 89-92.
ACSI J-3043
ID 2204033767

Fundamentals of the Theory of Optimal Automatic Systems, by A. A. Fel'dbaum.
GERMAN, per, 1963, pp 5-54, 521-530.
NLL Ref: RTS 2671

Optical Investigation of Spark Discharges, by D. Herrmann.
GERMAN, per, Be trage aus der Plasmaphysik, Vol 6, No 6, 1966, pp 409-415.
*FTD-HT-23-42-68

Sao Paulo Gets East German Locomotives, by H. Prosser and Horst Kreisch, 12 pp.
GERMAN, per, Deutsche Eisenbahn Technik, 12 Dec 67, pp. 578-584.
JPRS 44,038

Recording of Pyrometric Processes on Moving Motor Vehicles by the Philips Twelve Curve Dot Printer, by Ulrich Creutzberg.
GERMAN, per, Ind Elektron, Vol 5, No 1, 1957, pp 11-14.
*ABC ANL

Contribution to the Analysis and the Synthesis of Linear Exactly Decoupled Multiple Regulating Loops, by J. Sponer, 19 pp.
GERMAN, per, Messen, Steuern, Regeln, No 6, 1965, pp 187-194. FI00373667
FTD-HT-23-642-67

Feeler Gauge for Application of the GJV Type II, by G. Kugler, W. Backe, 35 pp.
GERMAN, per, Signal und Schiene, No 4, Apr 1966, pp 142-144; 149-152; 156-163; 171-174.
DIA LN 319-67-J

Investigations on Sensitivity to Impact of Reinforced Concrete Ties, by B. Hasek, R. Schumann, 51 pp.
GERMAN, per, Signal und Schiene, No 9, Sept 1966, pp 355-360; 370-372; 373-375; 383-389; 391-394.
DIA LN 319-67-E

Track Tramping and the Cross Tie Compress, by H. Fritsch, 14 pp.
GERMAN, per, Signal und Schiene, Feb 1967, pp 85-86.
DIA LN 115-68

The Mechanization of Track Construction Work in The Soviet State Railroads, by M. Zschweigert, 25 pp.
GERMAN, per, Signal und Schiene, Mar 1967, pp 94-97; 98; 125-128.
DIA LN 116-68

The Ballast Cleaning Machine, Model WRM 100, by G. Kneiske, 16 pp.
GERMAN, per, Signal und Schiene, Apr 1967, pp 169-174.
DIA LN 117-68

Dependable Products for All Problems of Conveyance Techniques, 5 pp.
GERMAN, per, Die Technik, No 3, Mar 1967, pp 166-167.
ACSI J-2625
ID 2204023667

Principles of Design and Construction for the German Residential Shelters of the Basic Protection Type and of the Reinforced Protection Type, by Herman Leuts, 9 pp.
GERMAN, per, Zivilschutz, Issue 7/8, Jul-Aug 1967, pp 213-268.
ACSI J-3913
ID 2204059167

Scientific
Mech., Industrial, Civil & Marine Engineering (Contd)

Achievements and Tasks of Technical Mechanics in Metallurgy and Mechanical Engineering, by Laszlo Gillemot, 16 pp.

HUNGARIAN, per, A MTA Muszaki Tudományok Osztályának Közleményei, No 38, 1967, pp 399-412.
JPRS 43529

Achievements and Tasks of Technical Mechanics in the Engineering and Construction Sciences, by Karoly Szechy, 12 pp.

HUNGARIAN, per, A MTA Muszaki Tudományok Osztályának Közleményei, No 38, 1967, pp 413-423.
JPRS 43529

Bio-Metallurgy

HUNGARIAN, per, Technika, Vol XI, No 2, 1967, ACSI J-3760
ID 2204054767

Our Narrow-Gauge Rail Lines, 9 pp.

HUNGARIAN, per, Vasut, No 3, 1967, pp 24; 29-30.
DIA LN 72-68

Fluid Dispenser for sewing work in particular, by Maurice Abramowicz, 6pp.
ITALIAN, Patent No. 635,842

Advanced Thermal Reactors and Fuel Cycle,

by Hiroji Mochizuki,
JAPANESE, per, FAPIG, Vol 40, 1966, pp 20-25.
*AEC JAERI

Loss of Propulsion Power Caused by Yawing with Particular Reference to Automatic Steering, by K. Nomoto & T. Motoyama.

JAPANESE, per, Zosen kyokai rombunshu, Vol 120, 1966, p 71.
NLL Ref: 9022.065 (2610)

Winter-Testing The Automatic Europa Coupling, by Leif W. Nilsen & Eiv Erikson, 9 pp.

NORWEGIAN, per, Vart Yrke, 20 June 1967, pp 50-53.
DIA LN 228-68

How Will The Freight Cars Of The Future Look?
NORWEGIAN, per, Vart Yrke, 20 June 1967, 50-53.
DIA LN 228-68

Ship Vibration, by W. Cjak.

POLISH, per, Budownictwo okretowe, Vol 11, 1966, p 375.
NLL Ref: 9022.065 (2591)

Scientific
Mechanical, Industrial, Civil & Marine Engineering (Contd)

Economic Criteria for Choosing the Deadweight and Speed of Ships in Capital Investment Studies, by H. Preis.

POLISH, per, Budownictwo okretowe, Vol 11, No 4, 1966, p 129.
NLL Ref: 9022.065 (2509)

Repair Shipyard Activities, by Marian Krynicki, 6 pp.

POLISH, per, Morze, Vol 23, No 9, (442), Sept 1967, pp 2-3.
JPRS 43406

Trial Trip In A PKP Car of the 7A Type With A Speed of 188 Km/Hr.

POLISH, per, Przegląd Kolejowy Mechaniczny, Mar 1967, pp 96.
DIA LN 169-68

Internal Combustion Locomotives "SM-42"

POLISH, per, Przegląd Kolejowy Przewozowy, No 2, July 1967, pp 17-19.
DIA LN 171-68

The Biaxial Coal Car of Series Wdco (Es) Type 9W/UIC, 6 pp.

POLISH, per, Przegląd Kolejowy Przewozowy, No 2, July 1967, pp 27-28.
DIA LN 171-68

Role and Significance of Narrow-Gauge Rails, by Stanislaw Tyminski, 6 pp.

POLISH, per, Przegląd Kolejowy Przewozowy, Vol. 14, No. 10, Warsaw, Oct 67, pp. 5-8.
JPRS 43,785

Screw Traction, Its Concept, Theoretical Foundations of Computations, and Results of Research, by A. Soltynski.

POLISH, per, Technika Motoryzacyjna, No 8, 1967, pp 225-231.
ACSI J-3712
ID 2204052667

Movement Dynamics of Caterpillar Vehicle, by Z. Burdzinski.

POLISH, per, Technika Motoryzacyjna, No 8, 1967, pp 240-246.
ACSI J-3712
ID 2204052667

Initial Phase of Dam Construction Described, 9 pp.

PORTUGUESE, newspaper, O Seculo, Lisbon, 11 Nov 67, pp. 1-2.
JPRS 43,856

References:

Books, Journals, Serials & Other Documents (Cont'd)

Design of Aerial Tent.

SPANISH, per, Exposicion de Ingenieros, Vol. I, No 27, pp 222.
DIA 1 37-50

On Some Approximate Methods for Calculating Gas Lubricated Journal Bearings, by V. N. Constantinescu.

RUMANIAN, per, Studii si Cercetari de Mecanica Aplicata, Vol 13, No 4, 1962, pp 935-955.
*FTD-HT-23-63-68C

Modernization of Yugoslav Railroads, by

T. Batev, 7 pp.
SERBO-CROATIAN, per, Transport, Belgrade, No. 11, Nov 67, pp. 18-10.
JPRS 44,140

Field Two-Oven Tent.

SPANISH, per, Field Two-Oven Tent, 21 Mar 1967.
*ACSI J-4122
ID 2889013467

Facts About Tracks, 5 pp.

SWEDISH, per, S. J. Rytt, No 10, 1 June 1967, pp 8-9.
DIA LM 42-68

Important Technical Preparations in Machinery Plants, by Pham Quang Le, 8 pp.

VIETNAMESE, per, Ky-thuat Cong-nghiep, Mar 1967, pp 4-6 & 22.
JPRS 43360

Methods & Equipment

The Estimate of the Spectral Brightness of Haze and its Influence on the Photo Interpretation of Aerial Photographs, by V. M. Bakhvalov.

RUSSIAN, rpt, AN SSSR. Mezhduevdomstvennaya komissiya po aeros'yenke. Teoriya i praktika deshifirovaniya aerosnirkov, Moscow, Izd-vo Nauka, 1966, pp 16-27.
*FTD-HT-23-121-68

Spectrometric Aerial Photography Using a Computer Device, by V. V. Kol'tsov.

RUSSIAN, rpt, AN SSSR. Mezhduevdomstvennaya komissiya po aeros'yenke. Teoriya i praktika deshifirovaniya aerosnirkov, Moscow, Izd-vo Nauka, 1966, pp 55-60.
*FTD-HT-23-121-68

Scientific

Methods & Equipment (Cont'd)

Landscape Method of Aerial Photograph Interpretation of Shallow Water Bottom, by K. M. Petrov.

RUSSIAN, rpt, AN SSSR. Mezhduevdomstvennaya komissiya po aeros'yenke. Teoriya i praktika deshifirovaniya aerosnirkov, Moscow, Izd-vo Nauka, 1966, pp 170-179.
*FTD-HT-23-121-68

Print Reader Designed on Optical Correlation Principle, by V. K. Yeliseyev, 29 pp.

RUSSIAN, per, AN Ukr-SSR. Chitavushchiye Avtomaty i Raspoznavaniye Obrazov, 1965, pp 208-233.
P100371067
FTD-MT-66-117

An Irradiated Diamond Temperature Indicator, by V. D. Dobrokhov.

RUSSIAN, per, Energomashinostroyeniye, Vol 12, No 11, 1966, pp 45-46.
NLL Ref: 9022.03 (4156)

Infrared Photography, by I. B. Levitin, 151 pp.

RUSSIAN, bk, Fotografiya v Infkrasnykh Luchakh, 1961, pp 1-192.
P100015568-V
FTD-MT-65-187

The Plastic Bending of Curved Thin-Walled Tubes, by L. M. Kachanov.

RUSSIAN, per, Izvestiya Akad. nauk SSSR. OTD, Vol 5, 1957, pp 42-47.
NLL Ref: RTS 4062

Conditions of Imperturbability of the Single-Rotor Gyrocompass, by G. D. Blyumin & M. V. Chichinadze, 16 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i Mashinostroyeniye, No 3, 1964, pp 71-86, 152-154.
P100372667
FTD-MT-64-536

Systematic Departures of the Triaxial Gyroscopic Platform, Caused by its Angular Oscillations, by V. A. Zinenko, 16 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i Mashinostroyeniye, No 3, 1964, pp 71-86, 152-154.
P100372667
FTD-MT-64-536

On Motion of the Free Gyroscope with Calculation of Internal Friction in Elastic Elements of its Construction, by L. I. Kargu & I. M. Okon, 7 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i Mashinostroyeniye, No 3, 1964, pp 71-86, 152-154.
P100372667
FTD-MT-64-536

Automatic Control of the Gas Flow in the Blast Furnace, by N. N. Chernov & P. G. Baranovskii.
RUSSIAN, per, Izvest. Vuz- Chern. Met., No 7,
1958, pp 79-89.
HB 5099

Arsenazo III, Methods of Photometric Determination of Rare and Actinide Elements, by Sergey Borisovich Savvin, 66 pp.
RUSSIAN, per, Arsenazo III. Metody Fotometricheskogo Opredeleniya Redikh i Aktinidnykh Elementov, Moscow, Atomizdat, 1966.
*FTD-HT-23-67-68C

Ceramic Sound Receivers, by A. A. Anan'yeva, 167 pp.
RUSSIAN, per, Keramicheskiye Priyemniki Zvuka, 1963, P100370767-V
FTD-MT-65-455

Determination of Crimp in Synthetic Staple Fibres, by N. B. Denina & M. V. Kazakova.
RUSSIAN, per, Khim. volokna, Vol 3, 1963, pp 55-57.
ILL Ref: 5828.4F (7029)

A Device for the Determination of Fibre Crimp, by L. L. Gurvich.
RUSSIAN, per, Khim. volokna, Vol 6, 1966, pp 62-64.
ILL Ref: 5828.4F (7018)

Instrument for Contactless Measuring of Parameters of Thin Semiconductive Film, by M. K. Sheynkman, I. B. Shul'ga, 6 pp.
RUSSIAN, per, Mashiny i Pribory Dlya Ispytaniya Metallov i Plastmass, 1965, pp 112-116. P100364567
FTD-HT-66-414

Foundations of Analytic Methods of Stereophotogrammetric Preparation of Materials of Aerial Photography, by N. D. Il'inskiy, 178 pp.
RUSSIAN, per, Obognovaniye Analiticheskikh Metodov Stereofotogrammetricheskoy Obrabotki Materialov Aerofotos"Yemki.
P100365867-V
FTD-MT-65-517

A New Method of Direct Measurement of the Relative Humidity of Gases with the Aid of a Condensation Hygrometer, by T. I. Kaganova.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanization of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Measurement Systems Used in CEMA Countries Outlined, by Ye. I. Volodin, 10 pp.
RUSSIAN, per, Standarty i kachestvo, No 9, Sept 1967, pp 83-86.
JPRS 43611

Apparatus for Testing Aircraft Landing Gear, by F. Koselsky, J. Sprinc.
RUSSIAN, per, Strojrenstvi, Vol 15, No 7, 1965, pp 524-533.
*FTD-HT-23-6-68

From Mill Experience: Increasing Yarn Length on Warp Beams, by M. G. Maslennikova.
RUSSIAN, per, Tekstilnaya promyshlennost', Vol 1, 1967, pp 33-34.
ILL Ref: RTS 4058

Questions on the Development of Universal Balancing Equipment, by L. N. Ozerov, 21 pp.
RUSSIAN, per, Teoriya i Konstruktsiya Balansirovochnykh Mashin, 1963, pp 328-342.
P100373467
FTD-MT-24-98-67

New Trends in the Development of Gyroscopes, by M. I. Zaytsev & G. A. Slomvanskiy, 16 pp.
RUSSIAN, per, Aviatsionnyy Tekhnologicheskii Institut. Trudy, No 59, 1964, pp 5-16.
P100371467
FTD-MT-24-96-67

Dynamic Balancing of Rotors Used in Instrument Making, by V. Ye. Myachin, 17 pp.
RUSSIAN, per, Aviatsionnyy Tekhnologicheskii Institut. Trudy, No 59, 1964, pp 40-53.
P100371667
FTD-MT-24-97-67

Theoretical Investigations into Longitudinal Magnetic Recording on Wire Ropes, by V. D. Selyi & V. M. Mits.
RUSSIAN, per, Trudy MakMII, Vol 16, 1965, pp 165-180.
ILL Ref: 8312.4 (5318)

One Problem of Optimum Control of a Complex of Instruments, by Yu. A. Rozanov, 20 pp.
RUSSIAN, per, AN SSSR, Matematicheskii Institut. Trudy, Vol 71, 1964, pp 88-101. P100348667
FTD-HT-67-41

Method of Computing a Point Elast in a Gas Taking Into Account Counterpressure, by V. P. Korobovnikov & I. I. Zhurkin.
RUSSIAN, rpt, Tr. V Sessii Uch. sojeta po narodnohoz. igol'ic. vnyaya, Pruzha, Litva, 1965, pp 70-82.
*FTD-HT-67-127-67

Method for the Construction of a Dynamic Correlation Between Stresses and Deformations by the Distribution of Residual Deformations, by V. S. Lenskiy.
RUSSIAN, per, Vestn Mosk Univ, Ser 1, Mat Mekh, Vol 6, No 5, 1951, pp 13-20.
AEC-ANL-Trans-487

Theory of Plasticity of Anisotropic Media, by V. A. Lomakin, 8 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik. Seriya I. Matematika, Mekhanika, No 4, 1964, pp 49-53. PI00371867-V
FTD-MT-64-560

An Approximate Calculation of Nonhomogeneous Plates by Subdivision into Elements, by V. P. Kandidov, 8 pp.
RUSSIAN, per, Moscow, Universitet, Vestnik. Seriya I. Matematika, Mekhanika, No 4, 1964, pp 67-73. PI00371867-V
FTD-MT-64-560

Instrument for Recording Measurements on Magnetic Tape, by V. A. L'vov.
RUSSIAN, rpt, Vsesoyuznaya konferentsiya po avtomaticheskoy kontrolyu i metodam elektricheskikh izmereniy, 5th, Novosibirsk, 1963, Avtomaticheskii kontroly i metody elektricheskikh izmereniy: trudy konferentsii, t. I: Metody elektricheskikh izmereniy. Tsifrovyye izmeritel'nyye pribory. Elementy izmeritel'nykh sistem, Novosibirsk, Izd-vo Nauka, 1965, pp 158-163.
*FTD-MT-23-116-68

Expansion of the Frequency Limit of Applicability of High-Frequency Permeameters, by A. L. Grokhol'skiy, A. F. Kugayevskiy.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 72, 1963, pp 53-58.
PI00372267-V
FTD-MT-65-408

Application of the Method of Characteristics to Calculations of Nonequilibrium Supersonic Air Flow Past Blunted Cones, by R. A. Gshelyak, N. V. Dubinskaya.
RUSSIAN, per, Vychislitel'nyy Tsentr. Stornik Rabot, No 7, 1967, pp 197-203.
*FTD-MT-23-40-68

Sensitivity and Specificity of a Combined Rapid Method of Detecting Anthrax Spores in Soil, by A. Tomov and T. Todorov, 5 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 10, 1966, pp 62-66.
ACSI J-2845
ID 2204028567

A Method for the Preparation of Ferrocenyl Derivatives, by A. A. Berlin.
RUSSIAN, Patent 129018, 25 Apr 1959, pp 1-2.
*FTD-MT-23-99-68A

Axisymmetric, Shaped Nozzle for Wind Tunnels, by K. V. Chashchkin-Semenov, V. Grigor'yev.
RUSSIAN, Patent No 186167, Class 42.
*FTD-MT-23-30-68B

Multiple and Rapid Pressure Measurements in Wind Tunnels, by Jacques Fiquet.
FRENCH, rpt, ONERA, TP, No 451, 1967, 7 pp.
*NASA TT F-11,508

A Laboratory Determination of the Speeds of Conversion of Matter and its Application to a Special Kinetic-Mathematical Blast Furnace Model, by L. von Bogdandy.
GERMAN, per, Arch. Eisenh., Vol 37, Dec 1966, pp 909-917.
BISI 5614

Bath for Producing by Electrodeposition High Luster Chromium Coatings from Cold Tetrachromate Baths, by Roggendorf Wilhelm, 4 pp.
GERMAN, Patent No 1,106,575
Dept of Comm
Patent Office

On the Encapsulation of Cobalt Sources, by Akira Ono, Makino Yoshio, 7 pp.
JAPANESE, per, Nippon Isotope Kaig, No 4, 1961, pp 654-657.
P91138367
AEC ORNL-TR-1775

Characteristics of Ferrite Components and Methods of Approximate Calculation for Design, by Yoshihiro Konishi.
JAPANESE, per, The Technical Journal of Japan Broadcasting Corporation, Vol 19, No 4, 1967, pp 46-62.
*ACSI J-4124
ID 2204000468

Missile Technology

Guided Missile Deceys, by Ching Yao.
CHINESE, per, Kang Tung chih shih, Vol 3, No 5, 1966, pp 12-13.
*FTD-MT-23-96-68C

Computer Design of Induction Motors for Gyroscopes, by I. N. Orlov, B. A. Dalektorskiy.
RUSSIAN, per, Elektrotehnika, No 3, 1966,
pp 4-6.
*FTD-HT-23-14-68

Gyroscopic Orientation, by Yu. B. Kashevarov.
RUSSIAN, bk, Girokopicheskoye Oriyentirovaniye,
1964, pp 1-77.
P100015268-V
FTD-HT-65-441

70 Years of Radio, by A. D. Fortushenko,
410 pp.
RUSSIAN, bk, Izdalel'stvo "Sviaz", 1965,
pp 1-335.
DIA LN 432-67

TV Antennas Described, by Ya. Kronis, 8 pp.
RUSSIAN, per, Nauka i tekhnika, Sept 1967,
pp 46-47.
JPRS 43652

Radio and Television Consultation Column,
6 pp.
RUSSIAN, per, Programmy, Moscow, No. 47, p. 6.
JPRS 44,168

Creation of Extensive Broadcasting Medium Praised,
by N. Psurtsev, 8 pp.
RUSSIAN, per, Radio, No 11, Nov 1967, pp 2-5.
JPRS 43981

New Television Station Under Construction, by I.
Ostroskiy, 7 pp.
RUSSIAN, per, Radio, No 11, Nov 1967, pp 9-11.
JPRS 43981

Radar Observation Conditions of Poor Visibility,
by A. N. Rakhovetskiy, 77 pp.
RUSSIAN, bk, Radiolokatsionnoye Nablyudeniye
v Usloviyakh Plokhoy Vidimosti, 1962, pp 1-98.
P100017468-V
FTD-MT-66-56

Passive Relaying for Radio Communications Relay
Lines, by G.Z. Aysenberg, and V.G. Yampol'skiy,
15 pp.
RUSSIAN, per, Radiotekhnika, Vol 22, No. 11, Moscow,
Nov 67, pp. 44-53.
JPRS 44023

Theory of Gyroscopic Devices, by S. S. Rivkin.
RUSSIAN, bk, Teoriya Girokopicheskikh Ustroystv,
Part I, 1962, 307 pp.
*FTD-HT-23-30-68C

Special Types of Communications in Pits, by
K. G. Astaknov.
RUSSIAN, per, Ugol', Vol 1, 1960, pp 33-35.
ILL Ref: 9022.66 (1912)

A Magnetic 50/25-CPS Frequency Divider, 8 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

The Splicing of the Polyethylene Coverings of
Communication Cables by the Electric Heating
Method, 6 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

Organization and Operation of Communication
Facilities - A High-Efficiency Enterprise,
10 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

New Equipment Must Be Put into Use and the
Operation of Rural Telephone Service Facili-
ties Improved, 5 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

People's Control in Operation - How the Com-
munications Workers of Kirovskaya Oblast Do
Their Work, 6 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

The Road of the Communications Workers of
Latvia, 6 pp.
RUSSIAN, per, Vestnik svyazi, Vol XXVII, No
10, Oct 1967.
JPRS 43658

Beginning of Navigation On The Dniester Unusual
Docks.
RUSSIAN, per, Vodnyy Transport, 19 May 1966,
16 Aug 1966, 15 Apr 1967, pp 1-4.
DIA LN 132-68

Equipment for Data Transmission and Reception
Using Optical Carrier, by A. G. Murelyan.
RUSSIAN, Patent 187155, class 21.
*FTD-HT-23-39-68B

Mean Effective Range of Airborne Search Radar,
by Sun Chung-k'ang, 12 pp.
CHINESE, per, Acta Electronica Sinica, No 1,
Sept 1963, pp 35-42.
ACSI J-3766
ID 2204055067

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Overall Structural Design of Radar Antenna,
by T'ang Cheng-jung, 15 pp.
CHINESE, per, Wu-hsien-tien Chi-shu, No 3,
Mar 1966, pp 21-27.
JPRS 43333

Algerian Radio-Television, 5 pp.
FRENCH, per, 1967.
JPRS 43964

The Navigable Waters of the Vistula, by
M. Milkowski, 12 pp.
FRENCH, per, Revue de la Navigation Interieure
et Rhénane, No 9, 10 May 1967, pp 286-290.
DIA LN 136-68

Development of Communications System in the USSR
Under the 1966-1970 Five-Year Plan, by V. A.
Nadezhdin, 5 pp.
GERMAN, per, Der Fernmelde-Praktiker, No 11,
1967, pp 241-242.
JPRS 43928

Automation of Long-Distance Telephone Communications,
by M. N. Stoyanov, 7 pp.
GERMAN, per, Der Fernmelde-Praktiker, No 11,
1967, pp 243-245.
JPRS 43928

Status and Prospects of Local Telephone Com-
munications Development, by Y. E. Pavlovskiy
& S. V. Sasonko, 6 pp.
GERMAN, per, Der Fernmelde-Praktiker, No 11,
1967, pp 247-248.
JPRS 43928

Passive Plotting, 3 pp.
GERMAN, per, Volksarmee, No 37, 1965, p 8.
F100348067
FTD-HT-67-417

Internal Navigation, by P. Schiano, 12 pp.
ITALIAN, per, Transporti Pubblici, Mar 1967,
pp 425-432, 436-432.
DIA LN 136-68

Applications of Microwave Band Circulator and
Isolator.
JAPANESE, per, Electronic Instrumentation, Vol 7,
No 7, 1967, pp 60-64.
*ACSI J-4125
ID 2204000568

Scientific
Navigation, Communications, Detection &
Countermeasures (Contd)

Hungarian Gyrotheodolite G1-H1, by J. Zycka.
POLISH, per, Przeglad Geodezyjny, No 10, 1966,
pp 393-399.
*FTD-HT-23-54-68C

Interior Navigation for Short Distances, 5 pp.
PORTUGUESE, per, Portos e Navios, No 94, June
1967, p 133.
DIA LN 176-68

The State of Telephone Service in Yugoslavia,
by R. Beraha, 9 pp.
SERBO-CROATIAN, per, Transport, Belgrade,
No. 11, Nov 67, pp. 47-49.
JPRS 44,140

Transferring Radio Relay Stations by Heli-
copter, by Colonel Svetozar Sarlija, 8 pp.
SERBO-CROATIAN, per, Vojni glasnik, No 10,
Oct 1967, pp 48-53.
JPRS 43659

Press, Radio Broadcasting and Shortwave Radio,
11 pp.
THAI, per, Prathet Thai, 1966, pp 414-431.
DIA LN 422-67

Nuclear Sciences & Technology

Angular Anisotropy and Effects of Pair Correlation
of Nucleons in Nuclear Fission by Neutrons, by
G. N. Smirenkin.
RUSSIAN, rpt, FEI-67, 1966, 30 pp.
*AEC ANL

Determination of the Cadmium-109 Concentrations
in the Near-Ground Air and Fallout at Certain
Points in the Soviet Union in 1964-1966, by
G. A. Fedorov.
RUSSIAN, rpt, 1967.
*AEC HASL

Distribution of Radioactive Strontium in the Soils
of Different Natural Zones, by V. I. Baranov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Levels of Radioactive Contamination of the
Near-Ground Layer of the Atmosphere and Surface
of the Earth by Products of Nuclear Explosions
in 1963-1965 in the Vicinity of Moscow, by
V. F. Srendakov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Possibility of Measuring the Magnetic Moment of the Isobar B^{12} (1236) in Radiative π^0 P Scattering, by I. A. Kondratyuk.
RUSSIAN, rpt, ITEF-528.
*AEC AERE

The Receipt of Strontium-90 and Cesium-137 with the Food Ration by the Population of the Soviet Union in 1965-1966 as a Result of Stratospheric Fallout, by V. A. Knizhnikov.
RUSSIAN, rpt, 1967.
*AEC HASL

The Radioactivity of Atmospheric Air and Certain Food Products in Moscow in 1965 and 1966, by V. I. Shumakov.
RUSSIAN, rpt, 1967.
*AEC HASL

Simple Quasiclassical Correlation for the Angular Anisotropy of Nuclear Fission by Neutrons, by V. G. Nesterov.
RUSSIAN, rpt, FEI-66, 1966, 8 pp.
*AEC ANL

Spectrum of Gamma-Radiation Produced by the Capture of Thermal Neutrons in Platinum, by L. V. Groshev, A. M. Demidov.
RUSSIAN, prt, IAE-1386, 10 pp.
AEC-ANL-Trans-518

Testing the Control Rod Drives of Marine Nuclear Reactors, by B. A. Maslenok, 173 pp.
RUSSIAN, bk, Leningrad, Shipbuilding Publishing House, 1967, pp. 1-164.
JPRS 43,834

Toward the Theory of Attenuation of the Density of Neutrons from a Pulsed Source in Limited Volumes of the Moderator, by M. V. Kazarnovskiy, L. V. Mayorov.
RUSSIAN, rpt, 20 pp.
AEC-BNL-tr-154

Radiative Variation of Dislocation Density in Alkali Halide Crystals Irradiated in a Reactor at Normal and Low Temperatures, by E. I. Andronikashvili.
RUSSIAN, per, All-Union SSR, Institut Fiziki, Elektronnyye i ionnyye protsessy i tverdykh telakh, No 2, 1965, pp 3-13.
*FTD-HT-23-123-60

Measuring the Fluxes of Filtered Radiation of a Reactor, by E. K. Baltagur & D. Ya. Gubanova.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radiatsionnaya Fizika, 1964, pp 41-44.
P100016068-V
FTD-HT-65-370

Radiation Damage in Radioactive and Gamma-Irradiated Calcium, Strontium, and Barium Sulfate, by V. V. Gromov, L. G. Karaseva.
RUSSIAN, per, AN LatSSR, Institut Fiziki, Radiatsionnaya Fizika, Ionnyye Kristally, No 4, 1966, pp 49-52.
*FTD-HT-23-1-68

Radiation and Deformation Defects in Crystals, by Ye. V. Kolontsova.
RUSSIAN, per, Moskva, Izd-vo AN SSSR, Otd Fiziko-Matematicheskikh Nauk, Deystviye Yadernykh Izlucheniy Na Materialy, 1962, pp 257-263.
*FTD-HT-23-125-68

Conference on the Application of Powerful Radiation Sources in Industry and Especially in Chemical Processes, by V. I. Sinitsin & G. I. Crafov.
RUSSIAN, per, Atomnaya Energiya, Vol 8, No 2, 1960, pp 164-167.
*ACSI J-4152
ID 2204001568

Radioactivity of the Coolant of a VD-50 Boiling Reactor, by O. I. Martynova, A. I. Nazarov, 12 pp.
RUSSIAN, per, Atomnaya Energiya, No 4, Oct 1967, pp 305-310.
JPRS 43563

Neutron Capture by Heavy Isotopes of Uranium and Neptunium during a Thermonuclear Explosion, by V. G. Zagrafov and V. P. Zommer, 15 pp.
RUSSIAN, per, Atomnaya Energiya, No 4, Oct 1967, pp 319-326.
JPRS 43563

Atomic Science and Technology on the Fiftieth Anniversary of the Great October Socialist Revolution, by A. M. Petros'yants, 26 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5, 1967, pp 379-395.
JPRS 43925

Work on Fast Neutron Reactors, by A. I. Leypunskiy, 13 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5, 1967, pp 396-402.
JPRS 43925

Development of Reaction Cooling of the Core, by
D. Ya. Surazhskiy, 17 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 403-408.
JPRS 43925

Construction of an Atomic Power Station with a
BN-350 Reactor, by A. I. Leypunakiy & I. I.
Afrikantov, 14 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 409-416.
JPRS 43925

Atomic Reactor Research Center, by N. A. Nikolayev
& O. D. Kazachkovskiy, 11 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 439-445.
JPRS 43925

Cooperation Between the USSR and Czechoslovakia
in Construction of an Atomic Power Station, by
Ya. Korobeynikov, 6 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 479-481.
JPRS 43925

Cairo Atomic Center and Scientific-Technical
Cooperation of the Soviet Union and the United
Arab Republic, by B. Yu. Golovanov, 7 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 481-485.
JPRS 43925

Atomic Energy Pavilion at Exhibition of the
Achievements of the National Economy of the
USSR in 1967, by S. Perepletchikov, 5 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 23, No 5,
1967, pp 485-487.
JPRS 43925

Radiation Diffusion in a Medium With a Strongly
Elongated Scattering Indicatrix, by
V. V. Sobolev.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 177, No 4,
1967, pp 812-815.
Sci Tech Info Facility
ST-OA-AA-10668

Dosimetry and Protection from Ionizing Radiation,
by B. P. Golubev.
RUSSIAN, bk, Dosimetriya i Zashchita Ot
Ioniziruyushchikh Izlucheniya, 1963, pp 1-336.
F100013268-V
FTD-HT-64-291

Electrolytic Reduction of Aluminum and
Magnesium Hydroxides, by V. L. Glagolev.
RUSSIAN, per, Atomnaya Energiya, Vol 1, No 3, 1967,
pp 133.
*AEC AERE

Extra-Atmospheric Measurements of the Ultra-
violet and X-Ray Backgrounds and their Role
in the Study of Intergalactic Gas, by
V. G. Kurt, R. A. Dyunayev.
RUSSIAN, per, Kosmicheskiye Issledovaniya, Vol,
No 4, 1967, pp 573-592.
Sci Tech Info Facility
ST-IGA-CMG-10666

On Information Deduced from the Critical Mag-
netic Scattering of Neutrons, by V. N. Kashcheyev,
RUSSIAN, per, Latv FSR Zinat Akad Vestis Fiz
Teh Zinat Ser, No 2, 1966, pp 22-31.
AEC-BNL-tr-155

Modifications in the Construction and Study of
the Physical Characteristics of the IRT-2000
Reactor of the Power Engineering Institute,
Belorussian Academy of Sciences, by V. A.
Borisevich & V. M. Dolgov, 28 pp.
RUSSIAN, per, Nekotoryye Izmneniya Konstruktsii
i Issledovaniye Fizicheskikh Kharakteristik
Reaktora IRT-2000 EI AN BSSR, 1963, pp 3-35.
JPRS 43924

Polymer Coatings in Nuclear Technology, by
V. B. Tikhomirov.
RUSSIAN, bk, Polimernye Pokrytiya v Atomnoi
Tekhnike, 1965, pp 1-204.
AEC-tr-6721

Atomic Power Engineering, by B. S.
Fozdnyakov, 23 pp.
RUSSIAN, per, Priroda, No 10, Oct 1967,
pp 28-39.
JPRS 43842

Average Neutron Density in Nonhomogeneous Media,
by A. V. Stepanov, 42 pp.
RUSSIAN, per, Simpozium po termalizatsii Neutronov
i Reaktornym Spetsialam (Nashchunardnaya
Agentsiya po Atomnoy Energii), 17-21 Jul 1967,
JPRS 43682

Methods of Solving Problems in Neutron Thermaliza-
tion Theory, by L. V. Mayorov, O. Ya. Trukhanov,
21 pp.
RUSSIAN, per, Simpozium po termalizatsii Neutronov
i Reaktornym Spetsialam (Nashchunardnaya
Agentsiya po Atomnoy Energii), 17-21 Jul 1967,
JPRS 43682

Neutron Spectra in Water near an Absorbent, by S. N. Ishmayev, V. I. Mostovoy. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

A Study of Inelastic Scattering of Neutrons in Graphite for Various Temperatures, by I. P. Yermeyev, V. I. Mostovoy. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

A Theory of Density Damping of Neutrons from a Pulse Source in a Confined Moderator, by M. V. Kazarnovskiy, L. V. Mayorov, 15 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Neutron Spectra in a Two-Region Graphite-Water System, by Kh. Sh. Abdullayev, V. I. Bryzgalov, 14 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Use of Systems of Laguerre Polynomials and Associated Functions for the Solution of Certain Thermalization Problems, by N. I. Laletin and I. G. Pasyukov, 14 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Finding Solutions to Certain Transfer Problems, by V. I. Lebedev, 15 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Study of Neutron Thermalization in Water at Different Times, by S. N. Ishmayev, V. I. Mostovoy, 16 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Measurement of Neutron Pulse Drop in Graphite Moderator, by V. I. Mostovoy, V. I. Yermeyev, 7 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Fig. 4 Experimental Equipment for Studying Neutron Energy Spectra, by V. A. Kusnetsov, A. I. Mogil'ner, 24 pp. RUSSIAN, per, Simposium po termalizatsii Neytronov i Reaktornym Spektram (Mezhdunarodnoye Agentstvo po Atomnoy Energii), 17-21 Jul 1967. JPRS 43682

Operating Experience of Ships with Atomic Power Plants, by A. T. Mitsevich and L. N. Muchnik, 20 pp. RUSSIAN, bk, Suda s atomnymi energeticheskimi ustanovkami, 1967, pp 7-23 & 31. JPRS 43550

Telemetry of Radioactive Radiations, by A. A. Bragin, V. N. Mikhaylovskiy, 161 pp. RUSSIAN, bk, Teleizmereniye Radioaktivnykh Izlucheniy, 1963, pp 1-156. P100008368-V FTD-MT-65-434

Radiation Generation of Dislocations in Alkali Halide Crystals, by E. L. Adronikashvili. RUSSIAN, per, Vses. soveshch. po fiz. shchelochnogaloidn. kristalloy 2nd. RIGA, 1962, pp 284-286. *FTD-HT-23-114-68

The Role of Protective Shielding in Radiation Safety Systems, by S. M. Gorobinskiy, 7 pp. RUSSIAN, per, Zashchitnyye Pokrytiya v Atomnoy Tekhnike. Sbornik Statey, 1963, pp 5-10. P100370367-V FTD-HT-66-691

Adhesive Layer as Protective Coating Against Radioactive Contamination, by T. G. Ivanova, N. I. Gus'kova, 6 pp. RUSSIAN, per, Zashchitnyye Pokrytiya v Atomnoy Tekhnike. Sbornik Statey, 1963, pp 93-97. P100370367-V FTD-HT-66-691

Best Available Copy

Investigation of Organic Coating Materials for Protective Coating from Radioactive Contaminations, by S. M. Gorobinskiy, Z. Ye. Panfilova, 12 pp.

~~RUSSIAN, per, Zashchitnyye Pokrytiya v Atomnoy~~

~~Tekhnika, Sbornik Statey, 1963, pp 122-135.~~
P100360367-V
FTD-HT-66-691

Meters and Dosimeters for Study of Protection and the Protective Properties of Materials, by V. N. Avayev, G. A. Vasil'yev, 17 pp.

RUSSIAN, per, Zashchitnyye Pokrytiya v Atomnoy Tekhnika, Sbornik Statey, 1963, pp 260-270.

P100370367-V
FTD-HT-66-691

Nuclear Weapons and Their Defense, by Chung-Yao Chao, Che-hui Ho, 11 pp.

CHINESE, per, Yuan-Tsu-Neng To Yuan-Ii Ho Ying-Tung, 1965, pp 267-274. P100364067

FTD-HT-66-442

Radiation Reconnaissance, by M. Kuosa, 13 pp.

FINNISH, rpt, pp 537-545.

ACSI J-3750

ID Incl to 2831014167

Irradiation Behavior of Mixed Uranium-Plutonium Carbides Nitrides and Carbon-Nitrides, by H. Mikaeloff, J. P. Mustelier.

FRENCH, rpt, CEA-R-2323.

AEC-EURFNR-317

Radioactive Contamination in Workshops and Laboratories. Vol 1: Methods of Detection and Measurement, by B. Werderer.

FRENCH, rpt, SPR/65-1475, CE-290(1965).

*AEC AERE

Radioactive Contamination in Workshops and Laboratories. Vol II: Methods of Protection, by J. P. Perotin.

FRENCH, rpt, SPR/67-558, CE-095(1967).

*AEC AERE

Stray Radiation in Accelerator Halls, by L. R. Kimel.

FRENCH, rpt, JINR-P9-3402, 1967.

*AEC AERE

Calculation of the Pulse-Height Distribution in Gamma Spectrometric Measurements Made by Means of Germanium Detectors, by J. P. Gonidec.

FRENCH, per, Nucl Instrum Methods, Vol 53, 1967, pp 185-191.

*AEC ORNL

Study of the Safety of the France Experiment, by J. Bouchard and J. C. Carre, 10 pp.

FRENCH, rpt, ALG, Center of Nuclear Studies of Fontenay-aux-Roses, Sept. 1966, pp 1-10.

AEC-IT-0710

P911407767-V

Development of the Chinese Nuclear Program, by Andre Garvenet, 12 pp.

FRENCH, per, Revue de Defense Nationale, Vol 23, Nov 1967, pp 1767-1775.

JPRS 43621

Radiochemical Determination of the Fission-Product Release from Coated Fuel Particles in Reactor Irradiation, by H. J. Reidel, 8 pp.

GERMAN, rpt, EUR 3271,d, 29 Nov 1966.

P911408367

AEC ORNL-TR-1789

The Development of Steam Blowers for Steam-Cooled Reactors, by F. Erbacher, F. Radtke.

GERMAN, rpt, KFK-545.

AEC-EURFNR-298

The Significance of the Adjoint Flux in Reactor Kinetics, by E. A. Fischer.

GERMAN, rpt, KFK-508.

AEC-EURFNR-282

Sodium Boiling and Fast Reactor Safety, by W. Peppler, E. G. Schlechtendahl.

GERMAN, rpt, KFK-612.

AEC-AURFNR-353

Unilac: A Linear Accelerator for Atomic Ions of Any Mass,

GERMAN, rpt, 18 pp.

AEC-ANL-Trans-533

The Compact Sodium-Cooled Nuclear Reactor Facility, by R. Harde, K. W. Stroehr.

GERMAN, per, Atomwirt Atomtech, Vol 11, 1966, pp 354-360.

AEC-ANL-Trans-519

The Let Effect of Radiation, by A. Danno.

JAPANESE, per, Genshiryoku Kogyo, Vol 10, No 12, 1964, pp 33-38.

*AEC AERE

Studies on Safety Analysis for a Loss-of-Coolant Accident in the Light-Water Power Reactor, by Hideo Fujie, Atsuo Yamanouchi.

JAPANESE, per, Nippon Kikai Gakkaishi, Vol 69, 1966, pp 1069-1076.

*AEC JAERI

Scientific
Physics

Electron-Optical Method of Recording Thomson
Scattering of Light of a Ruby Laser by a
Plasma, by G. V. Polgov-Savell'yev.
RUSSIAN, rpt,
AEC-LA-tr-67-77

Method for Obtaining Light and Sound Images, by
Lezar' Davydovich Rosenberg, 10 pp.
RUSSIAN, per, 1961, pp 90-106.
JPRS 43987

A Study of a Singularity of Thermodynamics
Quantities at the Liquid-Vapor Critical
Point of a Pure Substance, by A. V. Voronel.
RUSSIAN, rpt, 19 pp.
AEC-LA-tr-66-79

Dynamics of the Plasma Envelope of a Non-
Cylindrical Z-Pinch Up to the Instant of
Implosion, by Yu. A. Kolesnikov,
N. V. Filippov.
RUSSIAN, rpt, 18/904, 12 pp.
AEC-CLM-Trans-8

Cascade Excitation of the Hydrogen Atom by
Passage Through a Plasma Target, by
D. P. Grechukin and E. I. Karpushkina, 67 pp.
RUSSIAN, rpt, LAE-1364, 1967.
P911006668
AEC UCRL-TRANS-10139

Determination of the Synchrocyclotron Acceler-
ating Voltage Using the Dependence of Intensity
on the Frequency of Modulation, by A. N.
Safonov, 7 pp.
RUSSIAN, rpt JINR-P-2730, Sept 1966
P911409667
AEC NP-TR-1585

The Two-Centre Problem in Quantum Mechanics,
by L. I. Ponomarev and T. P. Puzynina, 16 pp.
RUSSIAN, rpt, JINR-P2-3009, 1966.
P911406967
AEC NP-TR-1583

The Two-Centre Problem in Quantum Mechanics,
Mathematical Part, by L. I. Ponomarev and
T. P. Puzynina, 23 pp.
RUSSIAN, rpt, JINR-P2-3012, 1966.
P911407467
AEC NP-TR-1584

Low Frequency Internal Friction in IIF Crystals,
by A. I. Belikov & D. G. Driyayev.
RUSSIAN, per, AN LATSSR, Institut Fiziki,
Elektronnye i ionnye protsessy v tverdykh telakh,
No 2, 1965, pp 35-39.
*FTD-MT-23-123-68

Scientific
Physical Science

Investigation of Radioluminescence Alkali-
Halide Crystals in the Horizontal Channel of
a Reactor, by A. A. Shvarts & L. Ye. Nagli.
RUSSIAN, per, AN LATSSR, Institut Fiziki,
Elektronnye i ionnye protsessy v tverdykh telakh,
No 2, 1965, pp 35-39.
*FTD-MT-23-123-68

Investigation of the Processes of Generation
of Radiation Defects in Ionic Crystals, by
Ch. B. Lushchik & G. G. Lipy'ya.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 11-23.
P100016068-V
FTD-MT-65-370

Thermoluminescence of KCl and KCl-Tl Crystals
Irradiated in a Reactor, by K. K. Shvarts &
Ya. Zh. Kristapson.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 25-30.
P100016068-V
FTD-MT-65-370

Investigation of Radiation Creation and Annealing
of Vacancies in Ionic Crystals by the Method of
Control Coloring, by M. A. Elango.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 31-40.
P100016068-V
FTD-MT-65-370

Photostimulated Emission from Colored NaCl and
KCl Crystals, by A. I. Belkind & L. Ye. Nagli.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 45-62.
P100016068-V
FTD-MT-65-370

The Effect of Ionizing Radiation on Photo-
stimulated Emission from Crystals NaCl and KCl,
by A. I. Belkind, & R. I. Kalendarev.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 63-66.
P100016068-V
FTD-MT-65-370

Thermal Quenching of X-Ray Luminescence of
Certain Alkali-Halide Phosphor Crystals, by
K. K. Shvarts & E. D. Aluker.
RUSSIAN, per, AN LATSSR, Inst Fiziki, Radi-
atsionnaya Fizika, 1964, pp 67-80.
P100016068-V
FTD-MT-65-370

Scientific
Physics (Contd)

Temperature Dependence of the Amplitude of Gamma-Scintillations in CsI-Tl and KI-Tl, by E. D. Aluker.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 81-84.
P100016068-V
FTD-MT-65-370

Investigation of Electron Paramagnetic Resonance and Luminescence of Solid Solutions of Sodium and Manganese Chloride, by K. K. Shvarts & V. B. Layzan.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 85-98.
P100016068-V
FTD-MT-65-370

Electron Paramagnetic Resonance of Manganese in NaCl Crystals with Cadmium and Calcium Impurities, by V. B. Layzan & A. Ya. Vitol.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 99-114.
P100016068-V
FTD-MT-65-370

Kinetics of Intracenter Luminescence of a KC1-Pb Phosphor Crystal, by M. F. Trinkler.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 115-126.
P100016068-V
FTD-MT-65-370

Investigation of the Kinetics of Intracenter Luminescence in a KC1-Tl Crystal, by A. K. Everte.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 127-140.
P100016068-V
FTD-MT-65-370

On the Kinetics of Intracenter Luminescence of KBr-Tl, by I. K. Plyavin & B. Ya. Berzin'.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 141-154.
P100016068-V
FTD-MT-65-370

Investigation of the Luminescence of a KI-Tl Crystal Excitation in an Absorption Band that Corresponds to $^{1}S_0 - ^{3}P_1$ Transitions, by B. Ya. Berzin'.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 155-166.
P100016068-V
FTD-MT-65-370

Scientific
Physics (Contd)

Investigation of the Luminescence of a KI-Tl Crystal. II. Excitation in an Absorption Band that Corresponds to $^{1}S_0 - ^{1}P_1$ Transitions, by B. Ya. Berzin'.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 167-174.
P100016068-V
FTD-MT-65-370

Investigation of the Luminescence of a KI-Tl Crystal. III. Excitation in the Excitation Absorption Band, by B. Ya. Berzin'.
RUSSIAN, per, AN LATSSR. Inst Fiziki. Radiatsionnaya Fizika, 1964, pp 175-177.
P100016068-V
FTD-MT-65-370

Detection of a Captured Electron in Irradiated Frozen Aqueous Solutions of Alkalies by the Electron Paramagnetic Resonance Method, by B. G. Yershov.
RUSSIAN, per, AN LATSSR. Institut fiziki. "Radiatsionnaya Fizika. Ionnyye Kristally", No 4, 1966, pp 39-47.
*FTD-MT-24-4-10-68

Momentum and Energy Relaxation by an Electron in a Crystal Part w, Elastic Scattering by Phonons Kinetic Equation, by P. A. Kaslauskas.
RUSSIAN, per, AN LATSSR. Litovskiy Fizicheskiy Sbornik, Vol 6, No 2, 1966, pp 233-244.
*FTD-MT-24-9-68

Effect of Electron-Electron Scattering on the Nonohmic Coefficient for Warm Electrons, by I. B. Levinson.
RUSSIAN, per, AN LATSSR. Litovskiy Fizicheskiy Sbornik, Vol 6, No 2, 1966, pp 245-253.
*FTD-MT-24-9-68

Radioactivation Analysis of Silicon Dioxide Using Ion-Exchange Chromatography, by A. I. Kalinin & R. A. Kuznetsov, 13 pp.
RUSSIAN, per, AN SSSR. Otdeleniye Obshchey i Tekhnicheskoy Khimii. Radiokhimicheskiye Metody Opredeleniya Mikroelementov, 1965, pp 161-167.
P100373567
FTD-MT-66-142

Nonlinear Focusing of Electromagnetic Waves in a Two-Level System, by V. I. Krasovitskiy & V. I. Gurillo.
RUSSIAN, rpt, AN LATSSR. "High Frequency Properties of Plasmas. Kiev. Naukova dumka", 1967, pp 49-52.
*FTD-MT-27-122-67

Dynamics of Rarefied Gas, by M. N. Kogan.
RUSSIAN, bk, Dinamika Razreshennogo Gasa
(Kineticheskaya Teoriya), Chap 6, 1967, pp 345-
430.

*FTD-MT-24-24-68

The Wavelength Dependence of the Scattering of
Light in the Atmosphere, by E. V. Pyaskovskaya-
Fesenkova.

RUSSIAN, per, Ak SSSR, Doklady, Vol 30, No 4,
1951, pp 595-598.

Dept of Navy/ APL/JHU T-2069

Approximate Calculation of the Surface Tension of
Metals, by S. N. Zadumkin.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol 112, 1957,
pp 453-456.

*NASA TT F-11,552

Thermophysical Properties of Some Multilayer
Insulations at Cryogenic Temperatures, by L.
B. Golovanov.

RUSSIAN, per, Doklady Dubna, 1967, No 237, pp 1-
20.

*FTD-HT-23-12-68

Motion of Conducting Bodies in a Magnetic Field,
RUSSIAN, bk, Dvizheniye Provodyashchikh tel i
Magnitnogo Pole, 1966, pp 1-121. P910050468-V

NASA TT F-460

Influence of Design of Burner Unit on Character-
istic of Gas-Turbine Combustion Chamber, by V.
A. Kristich, Yu. N. Bashkatov, 14 pp.

RUSSIAN, per, Energomashinostroyeniye, No 9, 1964,
pp 12-15. P100364667

FTD-HT-66-364

Calculation of Azisymmetric Flow in Stages of
Axial-Flow Turbogenerators, by M. I. Zhukovskiy.
A. P. Tarabrin, 12 pp.

RUSSIAN, per, Energomashinostroyeniye, No 9, 1964,
pp 15-18. P100364667

FTD-HT-66-364

Investigation of a Radial-Axial Turbocompressor
Turbine, by L. N. Odivanov, A. P. Tunakov, 12 pp.

RUSSIAN, per, Energomashinostroyeniye, No 9, 1964,
pp 23-26. P100364667

FTD-HT-66-364

Choice of Correspondence of the Time Interval
Between Two Measurements to the Time Constant
of An Instrument, by K.D. Sabinin, 10 pp.
RUSSIAN, per, Fizika Atmosfery i Okeana, Moscow,
May 67, Vol. III, No. 5, "Nauka" Publishing
House, pp. 473-480.

JPRS 43,835

Calculating the Surface Energy of Metals with a
Body-Centered Lattice, by Yu. S. Avraamov.

RUSSIAN, per, Fizika Metallov i Metallovedeniye,
Vol 23, No 3, 1967, pp 405-408.

*NASA TT F-11,555

On the Theory of Kinetic Vibrations in Semi-
conductors, by P. M. Karageorgy-Alkalaev &
A. Yu. Leiderman.

RUSSIAN, per, Fizika Tverdogo Tela, Vol 9, No 8,
1967, pp 2151-2156.

*Dept of Navy/ APL/JHU J-1109

Experimental Investigation of Stability of Cylind-
rical Shells Under External Pressure, by V. V.
Mykhaylov, V. O. Chystyukhin.

RUSSIAN, per, Seriya A, Fiziko-Tekhnichni ta
Matematichni Nauky, No 2, 1967, pp 170-172.

*FTD-HT-23-31-68C

The Effect of the Temperatures of the Flow and
the Wall on the Heat Transfer During the Cross-
flow of a Liquid through a Tube Bundle, by
V. M. Antuf'ev.

RUSSIAN, per, Inzhenerno-fizicheskiy zhurnal,
Vol 4, No 7, 1961, pp 25-29.

ILL Ref: RTS 3826

Heat Conductivity of Liquid Mixtures, by
G. N. Dul'nev & Yu. P. Zarichnyak.

RUSSIAN, per, Inzh.-Fiz. Zh., Vol 11, No 6,
1966, pp 747-750.

Dept of Navy/ APL/JHU T-2074

Contribution to the Problem of Calculating the
Viscosity of Real Gases, by G. I. Tsolman and
V. R. Kamenetskii.

RUSSIAN, per, Inzh.-Fiz. Zh., Vol 11, No 6,
1966, pp 751-755.

Dept of Navy/ APL/JHU T-2093

Calculation of the Heat-Transfer Process in
Three-Component Systems, by V. A. Sheiman &
E. G. Tumova.

RUSSIAN, per, Inzh.-Fiz. Zh., Vol 11, No 6,
1966, pp 787-796.

Dept of Navy/ APL/JHU T-2092

Scientific
Physics (Contd)

Determination of Heat-Transfer Coefficients by Means of Dynamic Characteristics, by E. B. Manusov. RUSSIAN, per, Inzh.-Fiz. Zh., Vol 12, No 2, 1967, pp 177-180. Dept of Navy/ APL/JHU T-2082

Thermal Conductivity of Multicomponent Mixtures, by G. M. Dul'nev & Yu. P. Zarichnyak. RUSSIAN, per, Inzh.-Fiz. Zh., Vol 12, No 4, 1967, pp 419-425. Dept of Navy/ APL/JHU T-2064

Studies in Physical Gas Dynamics. RUSSIAN, bk, Issledovaniya po Fizicheskoy Gazo-dinamike, 1966, pp 1-244. P910050568-V NASA TT F-505

Vibrations and Stability of a Conical Triple-Layered Shell with Fluid Flow in the Middle Layer, by V. V. Stepanyuk & D. V. Babich, 7 pp. RUSSIAN, per, Issledovaniya po Prikladnoy Gidrodinamike, 1965, pp 15-19. P100363167 FTD-HT-23-554-67

Energy Distribution of One-Phonon Scattering of Neutrons in Crystals Part 1, Spin-Phonon Interaction, by V. N. Kashcheyev. RUSSIAN, per, AN LatSSR, Izvestiya Seriya fizi-cheskikh i tekhnicheskikh nauk, No 4, 1966, pp 25-33. *FTD-MT-24-8-68

On the Solution of Three-Dimensional Heat-Conduction Problems, by V. I. Makhovikov. RUSSIAN, per, AN SSSR, Izv. Energetika i Transport, No 3, 1966, pp 109-116. Dept of Navy/ APL/JHU TG 230-T531

Experimental Investigation of Flow of Rarefied Gas, by G. A. Yevseyev, 17 pp. RUSSIAN, per, AN SSSR, Izvestiya, Mekhanika, No 3, 1965, pp 165-172. P100373867 FTD-MT-67-22

About an Approximate Method of Calculating Axially-Symmetrical Oscillations of Shells of Rotation with Liquid Filling, by F. N. Shkyarevich, 13 pp. RUSSIAN, per, AN SSSR, Izvestiya, Mekhanika, No 6, 1965, pp 123-129. P100362267 FTD-HT-66-527

Scientific
Physics (Contd)

Effect of Transverse Surface Curvature in the Characteristics of a Nonisothermal Axially Symmetrical Turbulent Boundary Layer of Compressible Gas, by A. S. Ginevskiy, Ye Ye. Solodkin, 19 pp. RUSSIAN, per, AN SSSR, Izvestiya Mekhanika i Mashinostroyeniye, No 1, 1963, pp 99-110. P100364867 FTD-HT-66-430

Investigation of a Gas Flow in the Region of an Incident Shock on a Cylinder in a High-Supersonic Flow, by M. P. Teterin. RUSSIAN, per, AN SSSR, Izv. Mekh, Zhidkosti i Gaza, No 2, 1967, pp 143-147. *Dept of Navy/ APL/JHU J-1104

Supersonic Flow Past a Transverse Gas-Formed Obstacle on a Plate, by A. I. Glagolev. RUSSIAN, per, AN SSSR, Izv. Mekh, Zhidkosti i Gaza, No 3, 1967, pp 97-102. *Dept of Navy/ APL/JHU J-1106

Theory of Ion Resonance, by A. V. Bogdanov. RUSSIAN, per, Izvestiya, AN TADZSSR, Otdeleniye Fiziko-Tekhnicheskikh i Khimicheskikh Nauk, No 1 (19), 1966, pp 20-23. *FTD-MT-23-130-68

On the Coefficient of Mass Flow and Pressure Along the Stream Surface of a Conical Flow at Hypersonic Velocities, by A. M. Mkhitaryan & M. P. Ovsyannikov. RUSSIAN, per, VUZ, Izv. Aviatsionnaya Tekh, No 1, 1967, pp 125-127. *Dept of Navy/ APL/JHU J-1110

Temperature Field in a Crystal Heated by Radiation, by V. V. Salamatov. RUSSIAN, per, IVUZ, Fizika, No 5, 1965, pp 86-89. *FTD-HT-23-15-68

Measurement of the Photoconductivity of Semiconductors at Microwave Frequencies, by Ye. Z. Meylikhov. RUSSIAN, per, IVUZ Fizika, No 3, 1966, pp 83-89. *FTD-HT-23-19-68

Ray Statistics in a Laminar Medium with Random Inhomogeneities, by V. M. Komissarov, 12 pp. RUSSIAN, per, Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo Tsentra Radiofiziki, Vol 9, No 2, 1966, pp 292-301. JPRS 49778

Scientific
Physics (Contd)

The Field of a Point Radiator in a Plane
Laminar Medium with Random Heterogeneity,
by V. M. Komissarov, 16 pp.
RUSSIAN, per, Radiofizika, Izvestiya
Vysshikh Uchebnykh Zavedeniy, Vol 10, No 4, 1967,
pp 498-508.
JPRS 43564

Spikes of a Nonstationary Random Process,
by G. A. Andreyev, 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy, Radiofizika, Vol 10, No 8, Aug
1967, pp 1123-1130.
JPRS 43551

Test on the Operation of a Molecular Oscillator
of an Artificial Earth Satellite, by N. G. Basov.
RUSSIAN, per, Kosmicheskie Issledovaniya, Vol 5,
No 4, 1967, pp 608-616.
Dept of Navy/ APL/JHU T-207C

Low-Power Backward-Wave Tubes, by Yu. G.
Al'tshuler and A. S. Tatarenko, 231 pp.
RUSSIAN, bk, Lampy Maloy Moshchnosti s
Obratnoy Volnoy, 1963, pp 1-296.
P100016368-V
FTD-MT-65-273.

Quantum Field Perturbation Theory in the Case
of Two States in Open Shells (First and Second
Order in Perturbation Theory), by U. Safronova.
RUSSIAN, per, Liet Fiz Rinkiny, Liet TSR
Mokslu Akad Liet, TSR Aukst Mokylkos, Vol 4,
1964, pp 249-261.
*AEC ANL

Flash-Hiding Properties of Aqueous Jellies, by
M. S. Bakharevich, and V. S. Vasil'yeva.
RUSSIAN, per, Nauchno-Tekhnicheskoye Gornoye
Obshchestvo. Vzyryvnoye Delo, Vol 52, No. 9, 1963,
pp 192-195.
P1003283-67-V
FTD-MT-66-254

Investigation of Activation the Combustion Shock Wave
of Nitroglycerine Charges and its Mixtures, by
A. N. Afanasenkov, and I. M. Voskoboynikov.
RUSSIAN, per, Nauchno-Tekhnicheskoye Gornoye
Obshchestvo. Vzyryvnoye Delo, Vol 52, No. 9, 1963,
pp 195-201.
P1003283-67-V
FTD-MT-66-254

On the Chemical Stability of Aluminum in the
Composition of Industrial Explosives, by Ya. B.
Svetlov, and R. N. Solntseva.
RUSSIAN, per, Nauchno-Tekhnicheskoye Gornoye
Obshchestvo. Vzyryvnoye Delo, Vol 52, No. 9, 1967,
pp 67-80.
P1003283-67-V
FTD-MT-66-254

Scientific
Physics (Contd)

Specific Features in Measuring Heat Conducti-
vity Coefficients of Multilayer Insulations, by
L. B. Golovanov.
RUSSIAN, per, Ob'yedinyemyy Institut Yadernykh
Issledovaniy, No 236, 1967, pp 1-20.
*FTD-HT-23-13-68

Fundamentals of General Meteorology, Physics of
the Atmosphere, by L. T. Matveev.
RUSSIAN, bk, Osnovy Obshchey Meteorologii, Fizika
Atmosfera, 1965.
CFSTI
NSF TT 67-51380

Influence of Deformations of Lattice on Para-
magnetic Resonance, by N. G. Koloskova, 30 pp.
RUSSIAN, per, Paramagnitnyy Resonans. Sbornik
Staty, 1964, pp 115-133. P100347567
FTD-MT-65-572

Semiconductors and Their Application in
Technology, by I. Voloshin, M. Doroshevich,
243 pp.
RUSSIAN, bk, Poluprovodniki i ikh Primeneniye
v Tekhnike, 1963, pp 1-287.
P10016968-V
FTD-MT-65-146

Stability of a Cylindrical Shell Made from a
Nonlinearly Deforming Material, by G. B. Kriyev,
7 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 2, No 3,
1966, pp 10-14. P100372067
FTD-HT-66-787

Toward Solution of the Dynamic Problem for a
Large-Radius Spherical Shell, by Yu. E. Senitskiy,
8 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 2, No 3,
1966, pp 15-20. P100372067
FTD-HT-66-787

Relaxation of Concentration Fluctuations and
Additional Absorption of Ultrasound in Solutions,
by M. F. Vuks & L. I. Lisnyanskii.
RUSSIAN, per, Primenenie ul'traskustiki k
issledovaniyu veshchestv, Vol 18, 1963, pp 239-247.
ILL Ref: RTS 4049

Physics of Metals and Metallography, by P. L.
Bradin & S. V. Zemskii.
RUSSIAN, per, Problemy metallou i ikh Fiz. Metal.
Soyuzan SSSR. Institut Metallovedeniya i Fizika
Metallor, Sbornik Trudov, No 5, 1958,
p 366.
*FTD-MT-24-32-68

EPR in Certain Complexes of Gadolinium, by T. S. Al'tsuler.
RUSSIAN, per, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 7-9.
*FTD-HT-23-7-68

Electronic Paramagnetic Resonance of Cobalt and Manganese Ions in Fluoberyllate Glasses, by E. I. Abdrashitova.
RUSSIAN, rpt, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 10-11.
*FTD-HT-23-7-68

Investigation of Low Temperature Glasses Containing Neodymium 3 and Cerium 3 Positive Ions, by T. S. Al'tsuler.
RUSSIAN, rpt, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 20-21.
*FTD-HT-23-7-68

Gradient Acoustic Paramagnetic Resonance in Liquids and Gases, by Ya. Ya. Asadullin, U. Kh. Kopvillem.
RUSSIAN, per, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 44-46.
*FTD-HT-23-7-68

Theory of Nonresonance Magnetic Absorption of Ultrasound in Metals, by B. M. Khabibullin.
RUSSIAN, per, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 60-62.
*FTD-HT-23-7-68

Eloch Type Phenomenological Equations for Quadrupole Nuclear Resonance with a $3/2$ Spin, by A. R. Kessel', M. A. Korchemkin.
RUSSIAN, rpt, Sb Tezisy Dokl Yubileyn Nauchn Konferentsii, Posvyashch XX-Letiyu in-ta Kazansk Fiz-Tekhn in-t, Sekts Fis n Kazan', 1966, pp 91-92.
*FTD-HT-23-6-68

Threshold Behavior of Ionization Cross Sections, by I. Zh. Vinkaln, M. K. Gaylitis.
RUSSIAN, bk, Scattering of Electrons on Atoms, 1967, pp 17-34.
Sci Tech Info Facility
ST-AC-PF-10665

Basic Laws Governing Heat-and Mass-Exchange in Convection Smoking (Curing) Ovens, by V. I. Zhishnyakov.
RUSSIAN, per, Scientific Research and Design Institute for the Mechanisation of the Fishing Industry, Vol 3, 1963.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Photometric Equipment for Pulsed Light Sources, by A. A. Vol'kehnshcheyn, V. P. Yefremov.
RUSSIAN, per, Svetotekhnika, No 6, 1966, pp 22-24.
*FTD-MT-24-18-68

On the Theory of Fusion and Burning of a Body (Stefan Problem), by A. A. Pomerantsev, 19 pp.
RUSSIAN, per, Teplo- i Massoperenos, Vol III, 1963, pp 185-194. P100367167
FTD-MT-65-267

Heat and Mass Transfer, by A. V. Lykov & B. M. Smol'skii.
RUSSIAN, bk, Teplo- i massoperenos, Vol 1, 1965.
CFSTI TT 67-51367
NASA TT F-431

Flow in Channels with Permeable Walls, by I. S. Kochenov, L. I. Baranova, 6 pp.
RUSSIAN, per, Teplo- i Massoperenos, Vol 1, 1965, pp 131-135. P100362767
FTD-HT-66-518

Heat and Mass Transfer, Volume I - Convective Heat Exchange in a Homogeneous Medium.
RUSSIAN, bk, Teplo- i Massoperenos, Konvektivnyi Teploobmen v Odnorodnoi Srede, 1965.
CFSTI
NASA TT F-431
NSF TT 67-51367

Trace Method and Its Application to the Investigation of Dispersed-Fuel Combustion Kinetics, by V. A. Fedoseyev, 5 pp.
RUSSIAN, per, Teplofizika i Teplotekhnika, 1964, pp 136-139. P100365767
FTD-HT-66-706

Uncalculated Operating Regimes of Supersonic Diffuser, by B. S. Vinogradov, 26 pp.
RUSSIAN, per, KAZAN, Aviatzionnyy Institut. Trudy, No 76, 1963, pp 3-26. P100347467
FTD-MT-65-472

Scientific
Physics (Contd)

The Dynamic Thermoelastic Problem of Plates and Shells in the Presence of Radiation, by V. V. Bolotin, 8 pp.
RUSSIAN, per, Tr. Konf. Teor. Plast. Obolochek, Kazan, 1960, pp 27-32.
P911409767
AEC SC-T-67-0928

Speed Distribution of Liquid Metal in an Annular Channel of Rectangular Section, by V. I. Mezhdur, 13 pp.
RUSSIAN, per, Politekhicheskii Institut, Trudy, Seriya A, No 214, 1964, pp 43-53. P100367267
FTD-MT-66-526

Turbulent Mixing of Two Semi Infinite Streams of Reacting Gases, by Ye. F. Avdeyev & F. Aliyev.
RUSSIAN, per, Leningrad, Politekhicheskii Institut, Trudy, Gidrogaxodinamika, No 265, 1966, pp 65-74.
*FTD-MT-24-361-67

Quantum Yield of the Thermo-Optical Ionisation of Local Centers, by Yu. Ye. Perlin.
RUSSIAN, per, Uch zap Kishinevsk, un-t, Vol 80, 1965, pp 51-56.
*FTD-MT-23-48-68

Selected Articles.
RUSSIAN, per, Vestnik Leningrad Univ, Seriya Fiziki i Khimiy, No 2, 1964, pp 5-138.
P100006968-V
FTD-MT-64-359

Impact of a Supersonic Jet Against a Surface, by A. Ya. Sagomonyan.
RUSSIAN, per, Moskovskii Univ, Vestnik, Ser I, Mat, Mekhan, No 6, 1966, pp 98-103.
Dept of Navy/ APL/JHU TG 230-T535

Supersonic Flow Past Bodies of Revolution with Annular Recesses, by M. G. Korozov & Yu. V. Baryshev.
RUSSIAN, per, Moskovskii Univ, Vestnik, Ser I, Mat, Mekhan, No 6, 1966, pp 108-113.
Dept of Navy/ APL/JHU TG 230-T534

Nonstationary Melting of Bodies Under the Action of Aerodynamic Heating, by S. K. Matveev, 6 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

Scientific
Physics (Contd)

Radiant Gas Flow Near the Stagnation Point of a Blunt-Nosed Body, by G. A. Kolton, 8 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

Rotational Motion of a Sphere in a Rare Flow of High Speed, by Nam Tum Po, 8 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

Strict Estimate of Error of Integration of Differential Equations by the Stormer Method, by L. Ya. Adrianova, 16 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

One Criterion of Stability of Hill's Equation, by B. N. Kozinets, 8 pp.
RUSSIAN, per, Universitet, Vestnik, Seriya Matematiki, Mekhaniki i Astronomii, No 13, 1964.
P100371767-V
FTD-MT-65-02

The Effect of Surface Phenomena on Transfer Processes, by I. T. El'perin.
RUSSIAN, per, Vestsi Akad Navuk Belaruskay SSR, Ser Fiz Tekh Navuk, No 2, 1965, pp 39-43.
*Dept of Navy/NRL

Investigation of Apparatus for Determining the Magnetization Curves of Transformer Steel in Weak Fields, by A. Z. Veksler, N. V. Pen'kov.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 72, 1963, pp 59-72.
P100372267-V
FTD-MT-65-408

Instrument for Studying the Oxidizability of Petroleum Hydrocarbons at High Temperatures, by G. F. Bol'shakov.
RUSSIAN, per, Vysshie Uchebnye Zavedeniya, Izv, Neft' i Gaz, No 9, 1964, pp 61-63.
Dept of Navy/ APL/JHU TG 230-T533

Excitation of Longitudinal Oscillations in a Magnetoactive Plasma, by V. V. Angelyko, A. B. Klitsenko.
RUSSIAN, bk, Vsesoyuznyy Nauchno-Issled Inst Fiziki i Khimiy, Seriya Fizika i Khimiy, 1965, pp 135-143.
*FTD-MT-23-48-68

Work of Georgian Physicists and Physics Institutions, by E. Andronikashvili, 6 pp. RUSSIAN, newspaper, Zarya Vostoka, Tbilisi, 28 Nov 67, p. 2. JPRS 43,857

Internal Conversion Coefficients of Radiation in the K and L Shells, by L. A. Sliv and I. B. Band, 17 pp. RUSSIAN, per, Zh. Eksp. Teor. Fiz., Vol 31, 1956, pp 134-136. P911408767 AEC BNL-TR-122

Vortex Structure in Superconducting Films in a Parallel Fields, by I. O. Kulik. RUSSIAN, per, Zh Eksp Teor Fiz, Vol 52, 1967, pp 1632-1637. AEC-AI-Trans-258

Analysis of Turbulent Heat Transfer on a Semi-porous Surface with Injection of a Foreign Gas, by S. S. Kutateladze & A. I. Leont'ev. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1966, pp 123-125. Dept of Navy/ APL/JHU T-2072

Interaction of Atoms with the Surface of the Solid Body, by Yu. A. Ryzhov and D. F. Strizhenov. RUSSIAN, per, Zh. Prikladnoy Mekh. i Tekh. Fiziki, No 4, July/Aug. 1967, pp 113-117. *NASA TT F-11,470

A Study of Generation in Nonaxial Directions of Neodymium Glass Samples of Cylindrical Form, by V. I. Malyshov, A. S. Markin, 11 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 3, No 5, 1965, pp 415-420. P100363467 FTD-HT-66-520

Influence of Enhanced Luminescence on the Generation Characteristics of Solid-State Lasers, by A. M. Samson. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 5, No 1, 1966, pp 36-44. P100347967 FTD-HT-67-59

Thermal Deformation of the Resonator of a Solid-State Optical Quantum Generator, by Yu. A. Anan'yev, N. A. Kozlov. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopiy, Vol 5, No 1, 1966, pp 51-55. P100347967 FTD-HT-67-59

The Terminal Methods of Laser Pumping, by N. G. Basov & A. N. Orayevskiy, 17 pp. RUSSIAN, per, Zhurnal Tekhnicheskoy Fiziki, Vol 37, No 2, 1967, pp 339-348. P100367067 FTD-HT-23-699-67

Supersonic Asymmetric Flow of a Perfect or Real Gas Over a Nose Section of a Body of Revolution, by I. G. Kozlova, A. N. Minaylos. RUSSIAN, per, Zhurnal Vychislitel'noy Matematiki i Matematicheskoy Fiziki, Vol 7, No 3, 1967, pp 594-608. *FTD-MT-24-5-68

Hypersonic Gas Flow Past Blunted Cones with Radiation Taken into Account, by V. N. Fomin, N. P. Smulishina. RUSSIAN, per, Zhurnal Vychislitel'noy Matematiki i Matematicheskoy Fiziki, Vol 7, No 4, 1967, pp 933-937. *FTD-HT-23-71-68

Device for Compensation for Disturbances in Direction Finding of Acoustic and Seismic Signals, by V. S. Voyutskiy, 3 pp. RUSSIAN, per, Patent No. 159299 (Appl. No 771089/22-3, Mar 27, 1962), 2 pp. P100363067 FTD-HT-66-661

Device for the Propagation of a Flat Wave over a Conducting Surface, by M. Ya. Gil'-chenok and Ye. G. Pashchenko, 3 pp. RUSSIAN, Patent No 169993, 3 Jun 1964, 2 pp. P100365967 FTD-HT-66-679

Preparation of the Alkyl Derivatives of Ferrocene, by A. N. Nesmeyanov. RUSSIAN, Patent No 187806. *FTD-HT-23-59-68C

Lifting Surface in Transonic Gas Flow, by A. N. Panchenkov. UKRAINIAN, per, AN UkrSSR, Gidrodinamika Bol'shikh Skorostey, No 3, 1967, pp 7-20. *FTD-HT-24-25-68

Improving the Operating Characteristics of the Thin-Film Magnetic Components of Memory Devices, by G. P. Zharikov, V. V. Zvyagintsev. UKRAINIAN, per, AN UkrSSR, Struktura i Svoystva Metallichesikh Plenok, 1966, pp 58-67. *FTD-HT-23-85-68

An Investigation into the Effects of Current Pulse Shortening in Multisection Linear Accelerators, by A. I. Zykov, I. A. Grishayev, et al. 10 pp. UKRAINIAN, rpt, Physico-Tech. Institute of Acad. of Sci. UkrSSR, 276/VE-062, Kharkov, 1966. AEC SLAC TRANS-73 P911391867

Scientific
Physics (Contd)

Ohmic Transport Contact for 2-6 Type Photoconductors, by S. V. Svechnikov.
UKRAINIAN, per, Ukrainskiy Fizichnyi Zhurnal, Vol 11, No 1, 1966, pp 40-44.
*FTD-HT-23-64-68C

Problem of Nonlinear Stability of a Round-Bottom Oblate Spheroidal Shell, by Jen-wei Liu, 5 pp.
CHINESE, per, K'io Hsueh T'ung Pao, No 3, 1965, pp 253-255. P100355567
FTD-HT-66-42

Equipment for Optical Transfer of Information, by L. Burda, 4 pp.
CZECH, Patent No 106634 (PV 6926-60), 18 Nov 1960, 4 pp. P100372967
FTD-HT-66-653

Continually Operating SR3-B Hypersonic Wind Tunnel for Rarefied Gas Studies, by Jean Allagre.
FRENCH, rpt, Jul 1967, 36 pp.
*NASA TT F-11,507

Criticality Guide. Part I. Introduction to Criticality. Part II. Practical Rules,
FRENCH, rpt, CEA-R-3114.
*AEC AERE

Thesis on Thermocouples for High Temperature Measurements, by M. Villamayer.
FRENCH, rpt, CEA-R-3182.
*AEC AERE

Mechanism of Two Body Interaction at High Energies, by P. Sonderegger.
FRENCH, per, J Phys Colloq, Vol 27, 1966, pp C4-11-C4-22.
AEC-ANL-Trans-497

Supersonic Flow, by R. Gonidou, 20 pp.
FRENCH, rpt, Office Natl. d'Etudes et de Recherches Aeronautiques, TP 523 Sept. 1967
*NASA TT F-473

Progress Accomplished in the Techniques of Measuring Aerodynamic Derivatives in Wind Tunnels - Methods of Forced Oscillations, by Michel Scherer.
FRENCH, rpt, ONERA, TP, No 389, 1967, 31 pp.
*NASA TT F-11,510

Low Density Visualizations, by Claude Veret.
FRENCH, rpt, ONERA, TP, No 483, 1967, 13 pp.
*NASA TT F-11,509

Scientific
Physics (Contd)

Radiation Defects in Semiconductors, by V. S. Vavilov.
FRENCH, per, Physica Status Solidi, Vol 11, No 2, 1965, pp 447-497.
*FTD-HT-23-55-68

Influence of Recurrent Noise and Low-Frequency Vibration on Blood Composition, Certain Organs, and Ascorbemia, by S. Jozkiewicz, J. Stanosek.
GERMAN, per, Acta Biologica et Medica Germanica, Vol 13, 1964, pp 331-335.
ACSI J-3746
ID 2204053967

Wide-Length DC Arc, by W. Grotrian, 58 pp
GERMAN, per, Annalen der Physik, Vol 47, No 10, 1915, pp 141-196.
P100014268-V
FTD-HT-66-587

Swirling Flows in Tubes and Their Application in the Stabilization of Electric Arcs, by E. Traub, 31 pp.
GERMAN, per, Annalen Der Physik, Vol 18, No 5, 1933, pp 169-192. P100363267
FTD-HT-66-404

Cavity Cathode Effect in Cesium Vapor, by E. Badaren, C. Popovici, 12 pp.
GERMAN, per, Annalen der Physik, Vol 15, No 5-6, 1965, pp 313-320. P100362867
FTD-HT-23-55L-67

Contribution to X-Ray Spectrometric Trace Analysis, by H. de Laffolie.
GERMAN, per, Archiv Eisen-Huttenwesen, Vol 38, No 7, 1967, pp 535-540.
HB 7217

Potassium Chlorate-Oil Mixtures as Explosives and their Specific Gas Volume, Energy Content and Explosion Temperature, by I. Huhtanen.
GERMAN, per, Explosivstoffe, No 9, 1960, pp 189-194.
Dept of Navy/ APL/JHU T-2077

Measurement of Speed in Pulsating Flow, by W. R. Gundlach.
GERMAN, rpt, Imeko-IV, Warszawa, 3-8 August 1967, 1967, pages 1-11.
FTD-HT-23-1659-67C

Determination of Valve Temperatures, by W. Poell.
GERMAN, per, Ind-Elektron, Vol 9, No 2, 1961, pp 3-6.
*AEC ANL

The Response Time of Miniature Shielded Thermocouples, by R. Schroeder.
GERMAN, per, Motor-Tech Zeit, Vol 25, No 7, 1964, pp 297-299.
*AEC ANL

Use of High Purity Materials in Thermometry, by M. Richter.
GERMAN, rpt, Paper Presented at International Symposium on Pure Materials in Science and Technology Held at Dresden Nov 30 - Dec 2 1961, pp 345-355.
*NASA TT F-11,548

The Scattering Mechanism of Current Carriers in Tellurium Alloyed Gallium Phosphide, by D. N. Nasledov, V. V. Negreskul, 10 pp.
GERMAN, per, Physica Status Solidi, Vol 10, No 1, 1965, pp 37-43. P100371267
FTD-HT-66-460

Spectral Separation of Inhomogeneous Turbulent Flows into Noncorrelating Components, by H. J. Mascheck, 4 pp.
GERMAN, per, Wissenschaftliche Zeitschrift, Vol 14, No 1, 1965, pp 107-108.
ACSI J-3519
ID 2204048767

Determination of the Neutron Emission of a Neutron Source, by P. Wunderer.
GERMAN, per, Zeit Angew Phys, Vol 10, 1958, pp 537-546.
AEC-ANL-Trans-529

Measurements Concerning Contact Potential Between Pure Metallic Surfaces and Their Variations Caused by Gas Adsorption, by Hans Pauly.
GERMAN, per, Zeitschrift fur Angewandte Physik, Vol 19, No 31, 1965, pp 207-211.
*NASA TT F-11,549

On the Electromagnetic Velocity Generation in Electric Arc Jet Engines, by Gerhard Krulle and Helmut Hugel, 30 pp.
GERMAN, per, Z. Flugwiss, Vol 14, 1966, pp 323-333.
P911407367
AEC LA-TR-67-33

The Contraction of Circular Liquid Jets, by E. Trefftz, 28 pp.
GERMAN, per, Z. Math. Phys., Vol 64, No 1, 1916, pp 34-61.
P911006268
AEC ANL-TRANS-532

Laser Micro-Equipment for the Raman Spectroscopy of Liquids and Crystal Powders, by B. Schrader.
GERMAN, per, Zeit Naturforsch, Vol 21a, 1966, pp 480-481.
*AEC AERE

Diffusion of Tritium in Quartz and Quartz Glass, by H. Matzke.
GERMAN, per, Zeit Naturforsch, Vol 22a, 1967, pp 965-969.
*AEC AERE

An Interferometer for Slow Neutrons, by H. Maier-Leibnitz and T. Springer, 23 pp.
GERMAN, per, Z. Phys, Vol 167, 1962, pp 386-402.
P911006068
AEC ORNL-TR-1815

Kinetics and Mechanics of Thermal Collapse of Acetylaceto, by G. Geiseler and K. Scherzer.
GERMAN, per, Zeitschrift fur Physikalische Chemie Neue Folge, No 44, 1965, pp 67-81.
*FTD-HT-23-8-68

Hungarian Basic Research on Semiconductors, by Gyorgy Szigeti, 29 pp.
HUNGARIAN, per, A MTA Muszaki Tudományok Osztályának Közleményei, No 38, 1967, pp 345-372.
JPRS 43529

Study on the Solidification of High Radioactive Liquid Waste with Cement, by Shigehisa Iwai, Yoriteru Inoue.
JAPANESE, per, Journal Japan Hlth. Phys Soc, Vol 1, No 1, 1966, pp 12-19.
*AEC JAERI

A Method of Measuring Thermal Diffusivity by Step Function Heating, by K. Kobayashi.
JAPANESE, per, Nippon Genshiryuko Gasshaishi, Vol 9, 1967, pp 58-64.
*AEC AERE

Triboluminescence, by M. Kunitomi.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 60, 1939, pp 149-156.
*AEC AERE

Image Analysis of Thermal Neutron Radiographs, by T. Inoue.
JAPANESE, per, Oyo Butsuri, Vol 34, 1967, pp 801-806.
*AEC AERE

Scientific
Physics (Contd)

Experimental Studies of Buckling of a Hyperboloidal Shell Subjected to an Axisymmetric Load Acting on the Edges, by J. Wiancki, 28 pp.
POLISH, per, Rozprawy Inzynierskie, Vol 12, No 4, 1964, pp 513-532. P100366867
FTD-HT-66-393

Experimental Investigations of Hypersonic Flows, by Robert Rowinski.
POLISH, per, Technika Lotnicza, No 12, 1964, pp 305-318. P100371367
FTD-HT-66-514

Behavior of the Ferro-Electric Phenomena in Tri-Glycine Sulfate (TGS) in Accordance with the Crystallographic Orientation, by B. Jimenez, 9 pp.
SPANISH, per, Electronica y Fisica Aplicada, Vol X, No 38, Apr-June 1967, pp 89-93.
ACSI J-3844
ID 2204056467

Propulsion & Fuels

Determination of Fuel Element Burn-Up With a Germanium Semiconductor Gamma Spectrometer, by L. V. Groshev.
RUSSIAN, per, Atomnaya energiya, Vol 21, No 3, 1966, pp 412-415.
ILL Ref: 9091.94 (Windscale Trans. 320)

Aircraft Engines, by V. A. Tyutyunov & S. I. Lovinskiy, 281 pp.
RUSSIAN, per, Aviatsionnyye Dvigateli, 1964, pp 19-55, 58-65, 71-169, 180-310, 354-365.
P100372467-V
FTD-HT-65-212

On the Thermal Stability of Hydrocarbon Fuels, by M. B. Vol'f & B. L. Kozik, 14 pp.
RUSSIAN, per, Bashkirskiy Nauchno-Issledovatel'skiy Institut Po Pererabotke Nefti. Trudy, No 003, 1960, pp 51-61. P100347267
FTD-HT-65-320

Theory of the Burning of Powders and Solid Rocket Fuels, by A. F. Belyaev & N. N. Bakhman.
RUSSIAN, per, Fiz. Goreniya i Vzryva, No 4, 1966, pp 3-17.
Dept of Navy/ APL/JHU T-2091

Scientific
Propulsion & Fuels (Contd)

Inert Gases, by V. G. Fastovskii, A. S. Rovinskii, RUSSIAN, bk, Inertnye Gazy, 1964.
CFS/II
AEC-tr-6725

Supersonic Flow of a Combustible Gas Mixture Around a Sphere, by S. M. Gilinskii & Z. D. Zapryanov.
RUSSIAN, per, AN SSSR, Izv. Mekh. Zhidkosti i Gaza, Vol 1, No 5, 1966, pp 8-13.
Dept of Navy/ APL/JHU T-2073

Determination of Certain Geometric Parameters of Turbine Grids, by B. M. Aronov, 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Aviatsionnaya Tekhnika, No 4, 1965, pp 109-117. P100374067
FTD-HT-66-535

About the Influence of the Clearance Between the Working Blades and Housing of a Radial Turbine on its Exponent, by Ye. P. Krylov, Ya. A. Spunde, 13 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Energetika, No 7, 1965, pp 66-73.
P100352187
FTD-HT-67-15

Turbine Stage Characteristics, by D. A. Dekhovich, 14 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Energetika, No 8, 1965, pp 67-76.
P100372767
FTD-HT-66-537

Investigation of the Peculiarities of Pre-Flame Processes and Ignition of Hydrocarbons of Various Structures. Pt. I. Variation of Cool Flame Delay and Ignition Delay with Compression Temperature and Pressure, by A. N. Voinov & D. I. Skorodelov.
RUSSIAN, per, Kinetika i Kataliz, Vol 8, No 2, 1967, pp 252-260.
ILL Ref: 9022.9 (1137)

Theory of a Supersonic Gas Ejector with a Cylindrical Mixing Chamber, by Yu. N. Vasilyev.
RUSSIAN, bk, Lopatochnye Mashiny i Struynye Apparati, 1967, pp 171-236.
*NASA TT F-11,554

The Unstable Character of the Ignition of Explosive Mixtures by Electric Sparks, by D. N. Furmanov.
RUSSIAN, per, Mekhanika i avtomatizatsiya v gorn. prom., Moscow, 1963, pp 287-299.
ILL Ref: 8313.4 (5427)

Scientific
Propulsion & Fuels (Contd)

Manual for Gas Turbine Engine Assemblers, by
L. K. Nikolenko & V. I. Sokolov.
RUSSIAN, bk, Pogobiye Dlya Slesarya-Sborshchika
Gazoturbinnnykh Dvigatelye, 1963, pp 1-263.
P100015168-V
FTD-MT-65-53

Russian Solid-Fuel Rockets, by V. N. Sokol'skii.
RUSSIAN, bk, Rakety na tverdom toplive v Rossii,
1963.
CFSTI TT 66-51152
NASA TT F-415

Structure and Properties of El826 Alloy for Gas
Turbine Blades with a Long 800° Centigrade Service
Life, by Ye. Ye. Levin & Ye. M. Pivnik.
RUSSIAN, per, Leningrad, Tsentral'nyy Nauchno-
Issledovatel'skiy i Proektno-Konstruktorskiy
Kotloturbinnnyy Institut im. I. I. Polzunova.
Trudy TSKTI. Issledovaniye Materialov dlya
Energeticheskikh Ustanovok, No 69, 1966, pp 25-40.
*FTD-MT-23-1608-67

Use of Heat Regeneration and Elevated Gas
Temperatures in Helicopter Gas Turbine Engines,
by A.F. Savostin, A.M. Tikhonov, 35 pp.
RUSSIAN, bk, Vertoletnyye Gazoturbinnnyye
Dvigateli, Mechanical Engineering Press,
Moscow, 1966, pp. 5-35.
JPRS 44,128

Basis of Requirements for Quality of Atomization
of Liquid Fuel in High-Forced Furnace Devices,
by L. V. Kulagin & S. S. Okhotnikov, 16 pp.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issledovatel'skiy
Institut Zheleznodorozhnogo Transporta.
Trudy, No 264, 1964, pp 5-19. P100364267
FTD-MT-65-487

Physical Rocket Engines, by M. Grun, 50 pp.
CZECH, per, Ceskoslovensky Casopis Pro Vrak,
No 3, 1965, pp 207-244. P100354967
FTD-MT-66-300

Fabrication of Fuel Elements for Irradiation
in the EFFBR. Part 1. Fuel Fabrication, by
Th. Dippel, K. H. Walther.
GERMAN, rpt, KFK-564
AEC-EURFNR-318

Scientific
Propulsion & Fuels (Contd)

Noise Components of the Diesel Engine and
Possibilities for Their Elimination,
by G. Engler, 15 pp.
GERMAN, per, Kraftfahrzeugtechnik, No 6, 1966,
pp 207-211.
ACSI J-2573
ID 2204022067

Electromagnetic Velocity Generations in Electric
Arc Jet Engines, by Gerhard Kruehle.
GERMAN, per, Zeit Flugwiss, Vol 41, 1966,
pp 323-333.
AEC-LA-tr-67-33

Analysis of Nuclear Fuels, by K. Motojima,
H. Hashitani.
JAPAN JE, per, Bunseki Kagaku, Vol 14, 1965,
pp 190R-198R.
AEC-ANL-Trans-523

Space Technology

The "Meteor" Space System, by I. Vetlov, 11 pp.
RUSSIAN, per, Aviatsiya i Kosmonavtika, No 10,
Oct 1967, pp 51-55.
JPRS 43715

"Orbit" Ground Station for Reception of TV
Programs for AES, by N.V. Talyzin, et al., 7 pp.
RUSSIAN, per, Elektrosvyaz, No. 11, Nov 67,
Moscow, pp. 4-8.
JPRS 44,023

On Using the SSB-FM Combination in Satellite Com-
munications Systems, by V.L. Bykov and S.M.
Khomutov, 10 pp.
RUSSIAN, per, Elektrosvyaz, Nov 11, Moscow, Nov 67,
pp. 9-16.
JPRS 44023

Analysis of the Rotation and Orientation of the
Proton-2 Satellite, by V.V. Beletskiy, et
al., 24 pp.
RUSSIAN, monograph, presented at the International
Astronautical Federation Congress, Belgrade,
Sept 67, Moscow, pp. 1-33.
JPRS 43,822

A Look Forward (Scientists Comment on the Flight),
by N. Gurovskiy, B. Yegorov, 5 pp.
RUSSIAN, np, Izvestiya, 25 Mar 1965, p 3.
P100365367
FTD-HT-66-427

A Method of Calculating the Refraction of Radio-
waves and Refraction Errors in Determining
Satellite Trajectories, by A. N. Kazantsev &
D. S. Lukin.
RUSSIAN, per, Kosmicheskie Issledovaniya, Vol 5,
No 4, 1967, pp 601-607.
Dept of Navy/ APL/JHU T-2084

Estimates of the Upper Limit of Ion Temperature
in the 7000-30000 KM Altitude Range According
to Measurements Aboard AES "Electron-2", by
V. V. Bezrukhikh, T. K. Breus.
RUSSIAN, per, Kosmicheskiye Issledovaniya, Vol
5, No 5, 1967, pp 798-799.
Sci Tech Info Facility
ST-PF-IF-10664

The "Magnetic Walls" of a Cosmic Ship, by A.
Petrov, 5 pp.
RUSSIAN, per, Nauchno-Tekhnicheskiye Obshchestva
SSSR, No 6, 1964, pp 60-61. P100364367
FTD-HT-66-440

Walking Above the Earth by A. Yefim'yev, 8 pp.
RUSSIAN, per, Nauchno-Tekhnicheskiye Obshchestva
SSSR, No 5, 1965, pp 6-8. P100366067
FTD-HT-66-443

Principles of the Theory of Rocket Flight, by
A. A. Dmitriyevskiy and V. N. Koshevoy, 240 pp.
RUSSIAN, bk, Osnovy Teorii Poleta Raket, 1964,
pp 1-311. P100008468-V
FTD-HT-65-567

Results of Space Research with the 'Kosmos-149',
by G.V. Rozenberg, 7 pp.
RUSSIAN, per, Priroda, No. 9, Moscow, Nov 67,
pp. 69-72.
JPRS 44,029

The Guiana Space Center, by General Aubiniere,
27 pp.
FRENCH, per, La Revue Francaise, No 195, Jan 1967,
pp 41-48; 49-52; 56-58.
DIA L: 10-68

Soviet Spacecraft Reentry Procedure, by I. Lorincz.
HUNGARIAN, per, Repules, Vol 20, No 10, 1967,
pp 14-15.
*FTD-HT-23-60-68

Vostok, 8 pp.
HUNGARIAN, per, Tudor, 25 May 1965, pp 28-29.
P100363967
FTD-HT-66-405

Design for the New Guayaquil-North Satellite
Exchange, by C. G. Mendoza, 6 pp.
SPANISH, rpt, Ministerio de Obras Publicas,
Bol. 71, June 1966, pp 107-110.
DIA LN 434-67.

Miscellaneous

Some questions on the History of the Theory of
Errors, by O. B. Sheynin.
RUSSIAN, per, Akademiya Nauk SSSR. Institute Istori
Yestestvoznaniya i Tekhniki, Moscow, 1967, pp 13.
Dept of Comm.
Nat Bur of Standards

Analysis of the Criteria for Speech Recognition,
by Ye. T. Semenova.
RUSSIAN, per, AN SSSR. Nauchnyy Sovet po Kom-
pleksnoy Probleme Kibernetika. Biologiya i
Nauka, 1965, pp 51-54.
*FTD-HT-23-1-68

The Horizons of Lithuanian Science, by Al'girdas
Zhmukas, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 39,
Sep 1967, p 27.
JPRS 43683

Literature Classification and Machine Search, by
B. V. Yakushin.
RUSSIAN, per, Moscow, Formy i Metody Logiki i Metodol.
Nauki. Referativnyy Zhurnal -- Nauchnaya i
Tekhnicheskaya Informatsiya, No 3, 1965.
*FTD-HT-23-1613-67

Armenian Scientific Institutions Honored on 50th
Anniversary Celebration, 6 pp.
RUSSIAN, np, Kommunist, 1 Nov 1967, p 2.
JPRS 43717

Scientific
Miscellaneous (Contd)

Soviet Medical-Training Appraised, 4 pp.
RUSSIAN, np, Meditsinskaya gazeta, 24 Nov 1967,
p 1.
JPRS 43707

Second All-Russian Congress of Neuropathol-
ogists and Psychiatrists, by M. Mirskiy, 5 pp.
RUSSIAN, newspaper, Meditsinskaya Gazeta,
Moscow, 22 Dec 67, p. 4.
JPRS 44,046

Containerization And The Intensification Of, by
S. Kapustin & Yu. Mikhaylov., 12 pp.
RUSSIAN, per, Morskoy Flot, No 8, Aug 1967,
pp 39-40.
DIA LN 282-68

Pearls of Bistritsa, 8 pp.
RUSSIAN, per, Narodnaya Rumania, July 1966,
11-15.
DIA LN 138-68

Short Account of the Voyage of BRT "Mekrasov"
Devoted to Experiments on High-Speed Trawling,
by V. M. Maevskii.
RUSSIAN, per, Nauch.-tekhn.byull.PINRO, Vols 16-17,
1961, pp 68-71.
NLL Ref: 9022.15 (1206)

The Hydroacoustic Method of the Quantitative
Estimate of Fish Numbers in Diffuse Formations,
by M. N. Shcherbino.
RUSSIAN, per, Nauch.-tekhn.byull.PINRO, Vols 16-17,
1961, pp 76-78.
NLL Ref: 9022.15 (1209)

The Problem of Optimum Dissemination of the
Results of Scientific-Technical Developments,
by G.A. Lakhtin, et al., 7 pp.
RUSSIAN, per, Nauchno-tekhnicheskaya Informat-
siya, Series 1, No. 9, Moscow, 1967, pp. 3-5.
JPRS 43,807

Young Generation of Latvian Scientists, by
R. Grinberg, 10 pp.
RUSSIAN, per, Nauka i Tekhnika, No 7,
July 1967, pp 10-13.
JPRS 43353

The Academy of Sciences of the Latvian SSR, by N.
Kravchenok, 6 pp.
RUSSIAN, per, Nauka i Tekhnika, No 10, Oct 1967,
pp 2-6.
JPRS 43944

Scientific
Miscellaneous (Contd)

General Meeting of the Academy of Sciences
Ukrainian SSR in Honor of the Founding of the
Soviet Ukraine, 6 pp.
RUSSIAN, newspaper, Pravda Ukrainy, Kiev,
19 Dec. 67, p. 1.
JPRS 44,137

Synthesis of Kurchatovium, by G.N.Flerov and
V.I. Kuznetsov, 22 pp.
RUSSIAN, per, Priroda, No. 11, Moscow,
Nov 67, pp. 35-44.
JPRS 44,045

The Oil Capital Is Receiving Guests, by K.V.
Tkachenko, 7 pp.
RUSSIAN, per, Pozharnoye Delo, No 3, 1967,
pp 1-1a; 4-5; 10; 22; 30.
DIA LN 357-67

Autumn 1966 in the Northern Hemisphere, by
T. V. Sidorenko & T. B. Fedorova.
RUSSIAN, per, Priroda, Vol 2, 1967, pp 122-126.
NLL Ref: 5828.4F (7027)

A Useful Book, by I. I. Lagunov.
RUSSIAN, per, Rybnoe Khoz, Vol 42, No 10, 1966,
p 95.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Prospects of Fishing for Some Bathypelagic Fishes
in the North Atlantic, by F. M. Troyanovskii.
RUSSIAN, per, Rybnoe khozyaistvo, Vol 11, 1966,
pp 4-7.
NLL Ref: 9022.15 (1224)

Fishmen Speak up.
RUSSIAN, per, Rybovodstvo i Rybolovstvo, Vol 43,
No 4, 1967, p 32.
Dept of Interior
Bureau of Commercial Fisheries
Branch of Foreign Fisheries

Flow Charts Are the Basis for Introducing
Scientific Organization of Labor into Con-
struction, by L. Ablyazov, 6 pp.
RUSSIAN, per, Stroitel', No 9, 1967, pp 7-8.
JPRS 43381

Nature and Importance of Road Signs and
Traffic Symbols, by G. Shchiliyazov and A.
Mincher, 28 pp.
RUSSIAN, per, Stroitelstvo, Vol 12, Aug-Sept
1967, pp 30-34.
DIA LN 82-68

Scientific
Miscellaneous (Contd)

Academician Glushkov Predicts Future of Cybernetics, by V. M. Glushkov, 7 pp.
RUSSIAN, per, Tekhnika molodeshi, No 10, 1967, pp 30-31.
JPRS 43745

Scientific Progress in Siberia, by M. A. Lavrent'yev, 5 pp.
RUSSIAN, per, Trud, 11 Nov 1967, p 2.
JPRS 43945

1966 Activities of Lithuanian Science Institutions, 22 pp.
RUSSIAN, per, Trudy Akademii Nauk Litovskoy SSR, No. 3(50), Vil'nyus, 1967, pp. 151-162.
JPRS 44,154

22nd All Union Scientific Session Dedicated to Radio Day Television Section, by M. I. Krivoskeyen, 50 pp.
RUSSIAN, bk, XXII Vsesoyuznaya Nauchnaya Sessiya, Posvyaschenmaya Dnya Radio-Sektsiya Televideniya, 1966, pp 1-70.
ACSI J-2120
ID 2204014967

Intensification of a Pressure Wave in a Combustion Zone, by S. N. Nikolayev.
RUSSIAN, per, Uch zap Chuvashsk gos ped in-t, Vol 20, 1964, pp 12-17.
*FTD-HT-23-34-68

Letter to the Editor, by E. G. Vol'pert.
RUSSIAN, per, Vestnik Moscow Univ Seriya I, Matematika, Mekhanika, No 3, 1964, pp 87-89.
P100370667-V
FTD-MT-64-559

International System of Units on the Practice of Magnetic Measurements, by E. N. Chechurina.
RUSSIAN, per, Vsesoyuznyy Nauchno-Issled Inst Metrologiy, No 72, 1963, pp 5-16.
P100372267-V
FTD-MT-65-408

Promising Fungicides, by A. Mikoferov, P. Koroletv, 5 pp.
RUSSIAN, per, Zashchita Rasteniy ot Vreditel' i Bolesnykh, No 6, 1963, pp 24-25. P100348267
FTD-HT-67-446

Scientific
Miscellaneous (Contd)

A Central Scientific Bureau Needed, by Majdi Nassiff, 10 pp.
ARABIC, per, al-Musawwar, 10 Nov 1967, pp 18-19.
JPRS 43724

New Academicians and Corresponding Members of the Bulgarian Academy of Agricultural Sciences, by Zl. Akhtarov, 13 pp.
BULGARIAN, per, Selskokostopanska Nauka, No 3, Jul-Sep 1967, pp 97-105.
JPRS 43957

New Years Address By The Director-General.
DUTCH, per, Pitt-Bodrijsbanden, Feb 1966, pp 3-6.
DIA LN 260-68

Project 293 - Rapport Trimestriel for 1/1/67 to 31/3/67 - Q.17 - Con-Tract 059-65-1 TEEF (RD), by Chaudrin.
FRENCH, rpt,
*AEC EURATOM

Catalogue, 13 pp.
FRENCH, per, Ploydiv Foire Internationale, Sept 1967, pp 103-104; 115-116; 119-120; 125-126; 137-139; 152; 154; 155; 0273.
DIA LN 341-68

Thirteenth International Congress of Railroad Model Builders, by Michel Doerr, 12 pp.
FRENCH, rpt, La Vie Du Rail, Jan 1967, pp 3-8.
DIA LN 123-68

Research Report of the Unilac Study Group for 1964 to 1966, by Unilac Group.
GERMAN, rpt, UNILAC No 3-67, 84 pp.
*AEC ANL

Space Suits - Space Fashion, by Herbert Pfaffe, 7 pp.
GERMAN, per, Armee-Rundschau, No 6, 1965, pp 79-81, 84. P100366967
FTD-HT-66-683

Museum for Transportation Dresden, Continuous Exhibits for 10 Years.
GERMAN, per, Eisenbahntechnik, No 9, Sept 1966, pp Y29-Y30;
DIA LN 320-67-F

Scientific
Miscellaneous (Contd)

The 35th International Fair in Poznan, 1966,
11 pp.
GERMAN, per, Eisenbahntechnik, No 9, Sept 1966,
pp Y32-Y34.
DIA LN 320-67-F

English Title Unknown, by E. Bunning
GERMAN, per, Handbuch der Pflanzenphysiologie,
Vol 17, No 1, 1959, pp 579-656.
*NASA TT F-11,496

Track Building Machines At The Leipzig Spring
Fair, by E. Huelzenbecher, 14 pp.
GERMAN, per, Signal und Schiene, May 1967,
pp 211-215.
DIA LN 118-68

Soviet Architecture, by A. L. Huxtable, 6 pp.
GERMAN, per, Der Spiegel-Serie, No 44, 1967,
pp 172; 174; 175; 177; 178.
DIA LN 336-68

Effective Influence on the Development and
Level of Quality, by E. Kramer and J. Thurner.
GERMAN, per, Standardisierung, No 4, 1967,
pp 152-153.
ACSI J-3557
ID 2204050067

Report of the Leadership of the Section of Chemical
Sciences of the Hungarian Academy of Sciences, by
Bela Lengyel, 81 pp.
HUNGARIAN, per, Kemiai Közlemenyek, Vol 28, No 2,
25 Sept 1967, pp 137-208.
JPRS 43661

Activities of the Academy Department of Chemical
Sciences, 10 pp.
HUNGARIAN, per, Kemiai Közlemenyek, No 3, 1967,
pp 377-382.
JPRS 43729

Activity Report on the Technical Sciences
Department of the Hungarian Academy of Sci-
ences, by Gesa Bognar, 42 pp.
HUNGARIAN, per, Magyar Tudományok Akademia
Műszaki Tudományok Osztályának Közlemenyei,
No 3, No 4, 1967, pp 255-285.
JPRS 43560

Scientific
Miscellaneous (Contd)

Data on the Organization and Activities of
the Technical Sciences Department of the
Hungarian Academy of Sciences, 25 pp.
HUNGARIAN, per, Magyar Tudományok Akademia
Műszaki Tudományok Osztályának Közlemenyei,
No 3, No 4, 1967, pp 288-307.
JPRS 43560

Comments on the Report of the Secretariat of
the Technical Sciences Department of the
Hungarian Academy of Sciences, 20 pp.
HUNGARIAN, per, Magyar Tudományok Akademia
Műszaki Tudományok Osztályának Közlemenyei,
No 3, No 4, 1967, pp 308-323.
JPRS 43560

Proceedings of the Polish Geographical Society
in 1966, 13 pp.
POLISH, per, Czasopismo Geograficzne, No 3,
1967, pp 363-372.
JPRS 43633

Activities of the Polish Academy of Sciences
Geographic Institute, by Stanislaw Misztal,
Kazimierz Wleczkowski, 37 pp.
POLISH, per, Przegląd Geograficzny, No 3, Jul/
Sep 1967, pp 645-670.
JPRS 43957

World News.
POLISH, per, Przegląd Kolejowy Mechaniczny,
Mar 1967, p 97.
DIA LN 169-68

Report of Activities 1966, 18 pp.
PORTUGUESE, rpt, Petrobras, 1966, pp II, 8, 9,
19, 20, 31, 33, 36, 39, 44, 46, 48, 49, 51,
52.
DIA LN 300-68

Synthesis of Study for Recife Port, by J. A.
dos Santos, 12 pp.
PORTUGUESE, per, Portos e Navios, Vol X, No 97,
pp 232-235.
DIA LN 374-68

Perspective Plan for Scientific Meetings to
Be Organized in 1968-1970 by the Union of
Medical Science Societies, 12 pp.
ROMANIAN, per, Viata Medicala, No 18,
Sept 1967, pp 1245-1252.
JPRS 43528

Scientific
Miscellaneous (Contd)

Resolution of the Conference of the Union of
Medical Science Societies, 25-26 May 1967,
6 pp.
RUMANIAN, per, Viata Medicala, No 18, Sept
1967, pp 1253-1256.
JPRS 43528

The Law on the Academy of Sciences and Arts of
Bosnia and Herzegovina, 11 pp.
SERBO-CROATIAN, per, Akademija nauka i umjetnosti
Bosne i Hercegovine, Jul 1966, pp 65-71.
JPRS 43729

Doctorates of Sciences Awarded in Yugoslavia in
1966, by Marijan Filipovic, 8 pp.
SERBO-CROATIAN, per, Jugoslovenski Pregled, No 9,
Sept 1967, pp 381-382.
JPRS 43879

Lab Report from Sartryck Ur Pack.
SWEDISH, per, Hmballageprovninglaboratoriet
(Kort presentation av organization och verksamhet)
No 2, 1964.
*ACSI J-4121
ID 2204000868

INFORMATION RECEIVED DURING FEBRUARY

ON COVER-TO-COVER TRANSLATIONS

Aviatsiya i Kosmonavtika, No 6, 1967.
FTD-HT-23-1356-67

Aviatsiya i Kosmonavtika, No. 7, July 1967.
FTD-HT-23-1415-67

Aviatsiya i Kosmonavtika, No. 9, Sept, 1967.
FTD-HT-23-1650-67

Aviatsiya i Kosmonavtika, No. 10, 1967.
*FTD HT-23-105-68C

Doklady Akademii Nauk SSSR, Vol 174, No. 1-6,
May-June 1967.
Consultants Bureau

Elektrokhimiya, Vol 3, No. 6, June 1967.
CB

Elektrokhimiya, Vol 3, No. 7, July 1967.
CB

Elektrosvyaz', No. 7, 1967.
Institute of Electrical and Electronics Eng.

Elektrosvyaz', No. 8, August 1967.
Institute of Electrical and Electronics Eng.

Fizika Tverdogo Tela, Vol 9, No. 7, Jan 1968.
American Institute of Physics
Vol 9, No. 7, July 1967.

Fiziologiya Rastenii, Vol 14, No. 3, May-June 1967.
Consultants Bureau

Fiziologiya Rastenii, Vol 14, No. 4, July-Aug 1967.
Consultants Bureau

Geomagnetizm i Aeronomiya, Vol 7, No. 3, 1967.
American Geophysical Union

Gigiena i Sanitariya, Vol 32, No. 1-3, Jan-Mar 1967.
Internat Program for Scientific Tr.

Hoc Tap, No. 10, 1967.
JPRS 44019

Hung-ch'i, No. 16, 1967.
JPRS 43921

Izvestiya, Vol 3, No. 6, June 1967.
American Geophysical Union

Izvestiya Akademii Nauk SSSR, Ser. Fiz., Vol 31,
No. 1, 1967.
Columbia Technical Translations

Izvestiya Akademii Nauk SSSR, Ser. Fiz., Vol 31,
No. 2, Feb 1967.
Columbia Technical Translations

Izvestiya Akademii Nauk SSSR, Tekhnicheskaya
Kibernetika, No. 5, 1967.
JPRS 44114

Meteorology and Hydrology, No. 11, Nov 1967.
JPRS 44153

Nukleonika, Vol 11, No. 7-8, 1966.
AEC-tr-6653.6654

Optika i Spektrosopiya, Vol 23, No. 4, Oct 1967.
Optical Society of America

Polski Przegląd Radiologii i Medycyny Nuklearnej,
Vol 31, No. 2, 1967.
CFSTI TT 67-56003/2

Radiotekhnika, No. 7, 1967.
Institute of Electrical and Electronics Eng.

Radiotekhnika, No. 8, August 1967.
Institute of Electrical and Electronics Eng.

Radiotekhnika i Elektronika, No. 6, June 1967.
Institute Electrical & Electronics Eng.

Radiotekhnika i Elektronika, No. 7, July 1967.
Institute of Electrical and Electronics Eng.

Stal, No 3, 1967.

BISI

Staub, Vol 27, No. 3, March, 1967.
CFSTI NO. TT 67-51408/3

Tekhnika i Vooruzheniye, No. 11, Nov 1967.
ACSI J-4133

Tekhnika i Vooruzheniye, No. 12, Dec 1967.
ACSI J-4316

Tsvetnye Metally, Vol 39, No. 8, Aug 1966.
Primary Sources

Tekhnika i Snabzheniye, No. 12, Dec 1967.
ACSI J-4132

Vestnik Akademii Meditsinskikh Nauk SSSR, No. 11,
Nov 1967.
JPRS 43934

Vestnik Akademii Nauk SSSR, Vol 37, No. 9, 1967.
JPRS 43956

Vestnik Akademii Nauk SSSR, Vol 37, No. 10, 1967.
JPRS 43990

Vestnik Protivovozdushnoy Oborony, No. 12, Dec 1967.
ACSI J-4131

Voenno Meditsinskiy Zhurnal, No. 11, Nov 1967.
ACSI J-4130

Voenno-Meditsinskiy Zhurnal, No. 12, 1967.
ACSI J-4283

Voennoy Vestnik, No. 12, Dec 1967.
ACSI J-4150

Voennoy Vestnik, No. 1, Jan 1968.
ACSI J-4317

Zhurnal Eksperimental'noi i Teoreticheskoi Fiziki,
Vol, 25, No. 6, Dec 1967.
American Institute of Physics
Vol 52, No. 6, 1967.

Zhurnal Tekhnicheskoi Fiziki, Vol 37, No. 8,
August 1967.
American Institute of Physics
Vol 12, No. 8, Feb. 1968

DOKLADY PHYSICAL CHEMISTRY

A translation of the Physical Chemistry Section of *Doklady Akademii Nauk SSSR*

Volume 174, Numbers 1-6

May-June, 1967

CONTENTS

	Engl./Russ.
Electric Structure of Acrylamide—B. Yu. Ainbinder, Z. V. Zvonkova, and G. S. Zhdanov	303 115
Destruction of Synthetic Zeolite Crystals by Compression—V. Bosacek, M. M. Dubinin, O. Kadlets, K. O. Murdmaa, and V. Navratil	305 117
Anisotropy of the Reactivity of Graphite—G. M. Volkov and V. I. Kalugin	309 121
Thermodynamic Aspect of the Theory of Metal Alloying—A. A. Zhukov	311 124
Role of Specific Solvation in the Mechanism of Elementary Stages of Oxidation Processes —G. E. Zaikov, L. M. Andronov, Z. K. Maizus, and N. M. Émanuéi'	315 127
Effect of Temperature on the Micelle State of Surface-Active Semicolloids—Z. N. Markina, A. V. Chinnikova, and P. A. Rebinder	319 131
Solubility and Heat of Solution of Nitrogen in Gamma Iron—I. N. Milinskaya and I. A. Tomilin	323 135
Kinetic Laws of the Isomerization of m-Xylene over an Aluminosilicate Catalyst —L. S. Patalakh, G. M. Mamedaliev, and A. M. Brodskii	326 139
G. M. Mamedaliev, and A. M. Brodskii	326 139
Influence of Induced Radioactivity on the Dissolution and Hydrogenation of Armco Iron in Solutions of Mineral Acids—Vikt. I. Spitsyn, N. Ya. Laptev, and S. A. Balezin	330 143
Spectroscopic Manifestation of the Photoassociation of Phthalocyanine without Metal —K. Schmutzler, G. N. Lyalin, and A. N. Terenin	334 147
Influence of Acceptors on the Stabilization of the Electron in a Perchlorate Matrix —L. T. Bugaenko and O. S. Povolotskaya	337 378
Bond Energies in Uranyl Complexes—V. M. Vdovenko, L. G. Mashirov, and D. N. Suglovov	340 382
Radiation Chain Polymerization at 4.2°K—G. N. Geragimov, M. A. Bruk, V. F. Gromov, A. D. Abkin, P. M. Khomikovskii, A. V. Matveeva, and I. V. Chernyak	344 386
On the Formation of Silver Centers of Various Types in Ionic Crystals—A. B. Gol'denberg, E. A. Nesterovskaya, and K. V. Chibisov	348 390
Oscillations of the Interface Tension inside Solids—A. Ya. Gokhshtein	351 394
Some Features of Electrokinetic Phenomena in Nonaqueous Disperse Systems in which the Surface of the Dispersed Phase is Electrically Inhomogeneous—Yu. F. Deinega and G. V. Vinogradov	356 398
Sharp Growth of Viscosity with Increasing Deformation Rate in Some Disperse Systems —A. I. Krashennnikov, R. A. Malakhov, and M. A. Fiozhina	360 402
Asymptotic Behavior of Molecular Distribution Functions in the Surface Layer of a Liquid —F. M. Kuni and A. I. Rusanov	364 406
Influence of the Structure of Saturated Carbon-Carbon Bonds on the Relative Rate of their Hydrogenolysis on Ru-SiO ₂ —T. A. Slovokhotova, A. A. Balandin, and F. B. Gonenim	367 410
Kinetics of Formation of Palladium Carbonyl Chloride—I. V. Fedoseev and Vikt. I. Spitsyn	371 414
The Optical Absorption Spectra of Crystalline Ice and Frozen Crystalline Aqueous Solutions —V. N. Shubin, V. I. Zhigunov, V. I. Zolotarevskii, and P. I. Dolin	373 416
An Infrared Spectroscopic Study of the Basicity of Luteotungstophosphoric Acid —S. A. Bakhchisaraitseva, V. Ya. Kabanov, and Vikt. I. Spitsyn	376 624

(Contd)

Available from Consultants Bureau

Contribution to the Theory of Retardation of Thin Liquid Layers by Surface-Active Substances —Khr. Boyadzhiev and V. S. Krylov	380	628
Modification of Sorbent Texture—A. A. Isirikyan	383	631
Regularities in the Volume Changes Accompanying the Melting of Various Semiconductor Groups—A. N. Krestovnikov, S. B. Evgen'ev, and V. M. Glazov	386	634
On the Possibility of Chemical Conversions Resulting in Detonation—N. M. Kuznetsov	390	638
More Precise Determination of the Position of the Solidus Line at the Iron Side in the Iron- Copper State Diagram—A. A. Bocharov, A. S. Ekatoval, E. V. Panchenko, and Yu. F. Sidokhin	394	863
Qualitative Reliability Characteristic of Chemical Reaction Mechanisms—A. M. Brodskii, I. V. Girsanov, and E. A. Feigin	398	865
Deuterohydrogen Exchange in the Cracking of Cumene and Isopropylcyclohexane on Aluminosilicate Catalysts—Z. V. Gryaznova and V. E. Skurat	400	869
Experimental Determination of the Efficiency of Conversion of Polyatomic Molecules in the Triplet State—G. P. Gurinovich, A. I. Patsko, and A. N. Sevchenko	402	873
Ratio of the Reaction Rates of Fast Hydrogen Atoms (1-2 eV) and Excited Ethyl Radicals in the System HI—C ₂ H ₄ —B. G. Dzantiev and A. P. Shvedchikov	405	876
Synthesis and Properties of Porous Crystals of Sodium Polysilicate and Polysilicic Acid —V. G. Il'in, L. F. Kirichenko, Yu. K. Ivanov, V. Yu. Kondrachuk, and Z. Z. Vysotskii	408	880
Question of the Relationship between the Potential Shift of a Catalyst and the Rate of the Hydrogenation Reaction—A. M. Sokol'skaya, S. M. Reshetnikov, S. A. Ryabinina, and D. V. Sokol'skii	412	884
Mechanism of Solid-Phase Polymerization—E. I. Finkel'shtein and A. D. Abkin	415	887
Experimental Study of the Rate of Carbon Gasification by Steam—E. M. Cherednik, L. O. Apelbaum, and M. I. Temkin	419	891
Influence of Inhomogeneity of the Ion Exchange Membranes on the Rectifying Effect of a Membrane Nonlinear Cell—A. I. Chernova, I. A. Mel'chuk, V. N. Maslov, and Yu. A. Zotov	423	895
Pulse Radiolysis of Aqueous Sodium Nitrate Solutions—L. P. Beruchashvili, V. N. Shubin, P. I. Dolin, and V. I. Zolotarevskii	425	1115
Question of the Influence of a Dative Bond on the Acid Properties of Coordinated Water —M. I. Gel'fman and D. B. Smolenskaya	428	1118
Experimental Study of the Electrokinetic Phenomenon Arising in the Crystallization of Weak Aqueous Solutions—L. G. Kachurin, V. I. Bekryaev, and V. F. Psalomshchikov	432	1122
Kinetics of the Thermal Decomposition of N,N-Dimethylnitroamine in the Presence of Formaldehyde—B. L. Korsunskii, F. I. Dubovitskii, and G. V. Sitonina	436	1126
Experimental Study on the Role Played by the Instability and Inhomogeneity of the Transformation Zone of the Components during Combustion of Condensed Mixtures—S. S. Novikov, P. F. Pokhil, Yu. S. Ryazantsev, and L. A. Sukhanov	439	1129
Determination of the Lactim-Lactam Equilibrium Constant in Vapors by the IR Spectra Method —G. N. Rodionova and É. S. Levin	442	1132
Kinetics of the Adsorption of n-Alkanes on Partially Hydrated CaA Zeolite—D. P. Timofeev and I. T. Erashko	445	1135
Differentiation of Acid Strengths of CH-Bonds in Dimethylsulfoxide—A. I. Shatenshtein, I. O. Shapiro, and I. A. Romanskii	447	1138
Interaction between Excited Electron States of Tetrapyrrole Dyes and Electron Acceptors —P. A. Shakhverdov	450	1141
Influence of the Conditions of Preparation of Ferrites with the Spinel Structure on the Nuclear Gamma-Resonance Spectra—G. N. Shlovkov, P. L. Gruzin, and E. Ya. Kupriyanova	453	1144

(Contd)

Available from Consultants Bureau

Influence of the β -Radiation of S^{35} on the Polysaccharase Activity of Enzymes from Marine Invertebrates—L. I. Barsova, V. E. Vas'kovskii, O. S. Chizhov, and Vikt. I. Spitsyn	456	1363
Photochemical Processes at the Surface of Alumina—V. A. Kotel'nikov and A. N. Terenin	459	1366
Variations in the Relaxation Properties of Deformed Molten Polymers—A. Ya. Malkin, B. V. Yarlykov, and G. V. Vinogradov	463	1370
Thermochemistry of Certain Organotitanium Compounds—V. I. Tel'noi, I. B. Rabinovich, V. D. Tikhonov, V. N. Latyaeva, L. I. Vyshinskaya, and G. A. Razuvaev	467	1374
Phase Equilibria in Systems Containing Fluorine Compounds—D. S. Tsiklis and V. M. Prokhorov	470	1377

The Russian press dates (podpisano k pechati) of the first and last issues covered in this issue of the translation were, respectively, 4/20/1967 and 6/21/1967. Publication of the material translated in this issue therefore is known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after this date and ending shortly after the later date.

Available from Consultants Bureau

SOVIET ELECTROCHEMISTRY

A translation of *Élektrokhiimiya*

Volume 3, Number 6

June, 1967

CONTENTS

	Engl./Russ.
Adsorption of Pentafluorophenol on Mercury—B. B. Damaskin, M. M. Andrushev, V. M. Gerovich, and R. I. Kaganovich	585 667
Acidity in Mixtures of Formic Acid with Water—Yu. F. Rybkin and M. G. Karpenko	589 672
Mechanism of Electroreduction of Oxygen on Metals of the Platinum Group in Acid Solutions—L. N. Nekrasov and E. I. Khrushcheva	594 677
Joint Influence of Anions and Organic Additives on the Rate of Electrochemical Processes on In(Hg) Electrode—A. A. Kazarov and M. A. Loshkarev	598 681
Thermodynamics of Anodic Oxidation of Methane in a High-Temperature Fuel Element with a Solid Electrolyte—A. L. L'vov and E. N. Gushchina	605 689
Model Calculation of Interionic Potential in an Ionic Pair—Yu. M. Kessler and R. I. Mostkova	610 695
Electrochemical Oxidation of Hydrogen on Platinum in the Presence of a Cation Exchange Membrane. II. Dependence of the Rate of the Process on Temperature—A. B. Khanin, N. A. Aladzhalova, and N. A. Fedotov	614 700
Sensitized Photoconductivity of Anthracene Crystals—V. A. Benderskii and T. S. Rudenko	618 705
Polarography of 2,6-Dimercapto-1, 4-thiopyrone-3-carboxylic Acid and Thiophenol—Yu. D. Sister, B. A. Kiselev, S. I. Zhdanov, and Yu. S. Lyalikov	623 711
Determination of the Activity of Sodium Chloride in Salt Melts by the Method of Measuring the Electromotive Forces of Circuits with a Glass-Sodium Electrode—I. Ya. Feenberg, A. G. Morachevskii, and A. F. Alabyshev	630 719
Electrochemical Behavior of a Tellurium Electrode in Solutions of Sodium Tellurite with Slight Excess of Free Alkali—V. M. Komandenko and A. L. Rotinyan	634 723
Association of Ions in Concentrated Aqueous Solutions of LiCl—E. A. Kaimakov and I. V. Przhival'skii	639 729
Electrochemistry of Polyelectrolytes. I. Electrical Conductivity of Solutions of Polyelectrolytes Based on Salts of Methacrylic Acid in Dimethylformamide—V. P. Barabanov and A. I. Kurmaeva	644 734
BRIEF COMMUNICATIONS	
On the Theory of the Hydrogen Overvoltage—R. R. Dogonadze, A. M. Kuznetsov, and V. G. Levich	648 739
Cathodic Initiation of Polymerization of Pyridine in Aqueous Solution. I. Acid Solutions—A. I. Fedorov and S. Ya. Vasina	651 742
Instability Constant of the Triiodide Ion in Dimethylformamide—Yu. M. Povarov and I. E. Burachkova	655 745
Measuring the Differential Capacity of the Electrical Double Layer in Systems with Predominant Concentration Polarization—R. Yu. Bek and A. S. Lifshits	658 748
Specific Adsorption of Cations of Calcium and Barium on Platinum—N. A. Balashova	660 750
Photoelectrochemical Behavior of n-Type Gallium Phosphide—V. V. Eletskii, Ya. M. Kulyavik, and Yu. V. Pleskov	664 753

(Contd)

Available from Consultants Bureau

Electrode Semiconductor Catalysts. VIII. Study of the Electrical Conductivity of Solid Solutions of CuO-MnO—O. K. Davtyan, V. Ya. Shvartsman, and Yu. A. Tkach	667	756
Nature of the Chemisorption Products of Methanol on the Surface of a Pt+Ru Electrode—V. S. Entina, O. A. Petrii, and V. T. Rysikova	669	758
Use of a Rotating Platinum Disc Electrode with Preliminary Vacuum Treatment of the Surface for Study of the Ionization of Molecular Oxygen in an Alkali—V. I. Tikhomirova, V. I. Luk'yanycheva, and V. S. Bagotskii	673	762
Measuring the Impedance of Electrochemical Transducers—B. M. Grafov, V. M. Midler, M. A. Novitskii, Yu. V. Sirotinskii, and L. A. Sokolov	677	766
Influence of Several Technological Parameters on the Electrochemical Oxidation of Potassium Manganate to Permanganate in the Presence of Ultrasound. I.—A. P. Gindis	680	763
Study of the Anodic Process during Oxidation of Chlorine Ions on Graphite in Sulfate Solutions—M. M. Flisskii	682	770
Polarographic Kinetic Currents of Pyridine Complexes of Nickel in Aqueous Alcohol Solutions—Ya. I. Tur'yan and O. N. Malyavinskaya	685	773
Chemical Component in the Anodic Polarization of Molten Iron Saturated with Carbon—V. D. Shantarin, O. A. Esin, and V. N. Boronenkov	687	775
Surface Conductivity of n-Type Semiconductors during Anodic Dissolution—V. A. Myamlin ..	690	779
Phase Diagram and Electrolysis of the System Aluminum Bromide—Diethyl Ether—A. L. Levinskas, Ch. V. Gerasimavichus, and Ya. Yu. Sinyus	692	781
Properties of a Nickel Oxide Electrode. II. On the Nature of the Phase Obtained in the Charging of Nickel Oxide Hydrate in Concentrated Hot Alkali—N. Yu. Uflyand, A. M. Novakovskii, S. V. Mendeleva, and S. A. Rozentsveig	696	785
Effect of an Ultrasonic Field on the Electrodeposition of Chromium—A. M. Ginberg, V. N. Nud'ga, and Yu. N. Petrov	698	787

The Russian press date (podpisano k pečati) of this issue was 5/23/1967.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available from Consultants Bureau

SOVIET ELECTROCHEMISTRY

A translation of *Élektrokhiimiya*

Volume 3, Number 7

July, 1967

CONTENTS

	Engl./Russ.
Stationary Operational Regime for a Unilaterally Polarizable Liquid Porous Electrode with Bilateral Diffusional Feed of the Reagent and Low Polarization—I. G. Gurevich and V. S. Bagotskii	703 795
Electrochemical Reduction of Oxygen on a Nickel Oxide Electrode in a Wide Range of Pressure and Temperature—Yu. I. Golovkin, N. P. Vasilistov, and N. A. Fedotov	712 805
Electrochemical Behavior of Sulfur Dioxide Studied by Oscillographic Polarography—A. G. Voloshin	719 813
Anodic Amalgam Volt-Ampere Measurements at Constant Potential of Mercury Film and Spherical Electrodes. Irreversible Processes—M. S. Zakharov, V. I. Bakanov, and V. V. Pnev	725 820
Adsorption of Pyridine on a Mercury Electrode's Surface—B. B. Damaskin, A. A. Survila, S. Ya. Vasina, and A. I. Fedorova	729 825
Electrochemical Behavior of Oxygen and Hydrogen Peroxide on a Smooth Rhodium Electrode in Acid Solutions—E. I. Khrushcheva, L. N. Nekrasov, N. A. Shumilova, and M. R. Tarasevich	734 831
Reduction of the $\text{Pt}(\text{NH}_3)\text{Cl}_3^-$ Anion and $\text{cis-Pt}(\text{NH}_3)_2\text{Cl}_2$ on a Dropping Mercury Electrode—N. V. Nikolaeva-Fedorovich, I. E. Barbasheva, and N. P. Berezina	730 836
Investigation of the Ionization of Hydrogen on a Semiimmersed Smooth Platinum Electrode in 1N H_2SO_4 —A. G. Pshenichnikov and G. I. Shnaider	743 842
Distribution of Current and Composition of the Electrolyte along the Depth of a Porous Graphite Electrode in Reactions of Anodic Liberation of Oxygen and Chlorine—D. V. Kokoulina and L. I. Krizhtalik	748 848
The Manufacture and Electrochemical Properties of Dislocation-Free Faces [100] on Monocrystalline Silver Electrodes—E. Budevskii, V. Bostanov, T. Vitanov, Z. Stoinov, A. Kuteva, and R. Kaishev	755 856
Interpretation of Impedance Measurements in the Study of the Evolution of Hydrogen and Silver in Acidic Solutions—D. I. Leikis and D. P. Aleksandrova	763 865
SHORT COMMUNICATIONS	
Determining the Number of Electrons and the Transfer Coefficient of an Electrochemical Reaction—A. G. Voloshin	770 873
Study of the Electrode Processes in the Reduction of Indium (III) and Antimony (III) on a Dropping Mercury Electrode—L. S. Kopanskaya	773 876
On the Dissolution of Copper in Acid Solutions of Ferric Chloride—L. A. Poluboyartseva, P. I. Zarubin, and É. A. Sidel'nikova	776 878
Parameters in the Theory of Strong Electrolyte Solutions—Yu. M. Kessler	779 881
Electroconductivity of Lithium-Iron-Silicate Glasses—A. A. Belyustin and S. E. Volkov	781 884
Evolution of Hydrogen on Flat Electrodes Partially Immersed in a Fused Carbonate Electrolyte—L. V. Klevtsov, G. G. Arkhipov, and G. K. Stepanov	785 888

(Contd)

Available from Consultants Bureau

Role of Surface Irregularities in Impedance Measurements on Solid Electrodes—I. G. Dagaeva, D. I. Leikis, and E. S. Sevast'yanov	788	891
Surface State and Potential of an Anthracene Membrane in a Solution—L. I. Boguslavskii	791	894
Electrode Semiconductor Catalysts. IX. X-ray Study of Oxide Film Obtained at High Temperatures on the Surface of Sheet Nickel—L. A. Kalinets	795	898
State of the Surface of the Platinized Platinum Electrode in Sulfate Solutions at Potentials in the "Double Layer" Region—R. V. Marvet and O. A. Petrii	798	901
A Study of Some of the Electric and Photoelectric Properties of Pyrene—A. A. Avdeenko and Yu. V. Naboikin	800	904
Thickness of Thin Electrolyte Films on Metallic Surfaces—R. Kh. Burshtein, M. R. Tarasevich, S. F. Chernyshov, and V. V. Karasev	803	907

The Russian press date (podpisano k pechatii) of this issue was 6/17/1967.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available from Consultants Bureau

TELECOMMUNICATIONS and RADIO ENGINEERING

1967

NUMBER 7

ELEKTROSVYAZ'

PART 1
TELECOMMUNICATIONS
Volume 21

Page

L. P. Puriyov, A. S. Zamrli and A. I. Zakharov: Calculation of Data Transmission System Characteristics, Assuming Practical Error Distributions in the Channels	1
G. E. Ol'derogge: Criteria for Comparing Different Methods for Improving the Reliability of Discrete Data Transmitted Over Noisy Channels	9
Yu. N. Kornyshev, A. Ya. Markovich and M. N. Pisker: Study of Methods of Organizing Internal Connections in Terminal Switching Systems	12
V. K. Marigodov and G. S. Panteleyev: Estimating the Effectiveness of Preemphasis When Facsimile Signals are Transmitted Over Radio Link Telephone Channels	17
R. F. Matveyev and V. V. Meriakri: Study of Multimode Waveguides with Random Inhomogeneities	21
S. A. Sokolov: Lightning Protection of Buried Toll Cables Permafrost Region	28
D. A. Babin: Operational Reliability of Toll Cables	31
I. A. Kozhukovskaya: Measurement of the Equivalent Circuit Parameters of an Articulatory Apparatus	36
Yu. M. Shtur'kov: A Scheme for Majority Decoding with L-Step Orthogonalization	41
V. A. Kisell: Design of a Harmonic Synthesizer Using the Signal Time Characteristics	47
BRIEF COMMUNICATIONS	
B. G. Teryayev: Noise Immunity of PSK Telegraphy, Taking the Nonlinearity of the Reference Channel into Account	54
Yu. M. Mel'nikov: Active Adaptive Receiving Antennas	57
New Books	62
In Our Forthcoming Issues	63

RADIOTEKHNIKA

E. S. Elinson and A. S. Larionov: Selecting the Minimum Deviation for FM-Signals of Large Dynamic Range	65
Ya. K. Trokhimenko: Analysis of the Dispersion Properties of Ladders of Coupled LC-Circuits	68
A. M. Shloma: Realization of Specified Transfer Function by Means of an Amplifier with Parallel Feedback in the Form of a Two-Terminal Network	74
V. I. Mayatskiy: Maximum Power Gain of Antennas Consisting of Discrete Radiators	79
I. F. Shushin: Influence of the Earth on the Results of Polarization Measurements Near the Radio Horizon	82
Yu. A. Volkov and V. A. Korolev: Design of a Transistor Amplifier Stage of Specified Figure of Merit	91
V. A. Tsar'kov: General Method for Analyzing and Calculating Transistor Operating Stability in Multistage Resistance-Coupled Circuits	97
V. L. Bykov: Analysis of the Threshold Performance of an FM Receiver with Cophased Regeneration of the FM Signal Carrier	101

(Contd)

Available from Institute of Elect. and Electronics Eng.

A.I. Zhivotovskiy, O.V. Alekseyev, V.V. Polevoy and A.A. Solov'yev: Traveling-Wave Amplifier with Nonuniform Plate Line	107
A.I. Viches: Design of Pulsed-Signal Magnetic-Recording System	113
G.P. Belov: Output-Voltage Temperature Coefficient of a Semiconductor Voltage Stabilizer	121
V.K. Baklitskiy: The Use of Pulsed Random Processes in a Discrimination Circuit with Delayed Synchronization	125
E.S. Kochanov: Parasitic Capacitances in Printed Wiring of Radio Equipment	129
M.V. Bamberskiy and V.P. Abramov: Design of Permanent Magnets for Microwave Ferrite Devices	132
A.G. Senin: Optimum-Signal Synthesis	136
FOR THE ENGINEER	
G.S. Tsykin: Increasing the Economic Efficiency of Television Receivers	141
BRIEF COMMUNICATIONS	
A.N. Morgunov: Assessing the Variance of the Phase of a Sinusoidal Signal in the Presence of Partial Interference	145
V.V. Sergeyev: Method of Calculating the Capacitance of a Dense Grid of Radially Diverging Wires	147
A.Z. Zavadovskiy: Maximum Gain of the Single-Tank Stage of a Transistor Tuned Amplifier	149
V.P. Mikhaylenko: Design of the Input Bias Circuit of a Transistor Amplifier Stage ..	152
L.P. Zherebtsov: Letter to the Editor	154
B.A. Ostroumov: On His 80th Birthday	155
New Books	156
Erratum	157

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	$\cosh^{-1}$
Arcth	$\coth^{-1}$ (ctnh ⁻¹)
Arsh	$\sinh^{-1}$
Arth	$\tanh^{-1}$
arccos	$\cos^{-1}$ (arc cos)
arctg	$\cot^{-1}$ (arc cot)
arcsin	$\sin^{-1}$ (arc sin)
arctg	$\tan^{-1}$ (arc tan)
ch	cosh
cosec	csc
ctg	cot (ctn)
cth	coth (ctnh)
rot	curl
sch	sech
sh	sinh
tg	tan
th	tanh

Available from Institute of Elect. & Electronics Eng.

TELECOMMUNICATIONS and RADIO ENGINEERING

ELEKTROSVYAZ'
No. 8, Aug 1967

1967

NUMBER 8

CONTENTS

Page

PART 1 TELECOMMUNICATIONS Volume 21

A.F. Fomin: Comparative Noise Immunities of Some Methods of PPM-AM Reception in Fluctuation Noise	1
A.M. Zayezdnyi and Ye. Z. Finkel'shtein: Fundamentals of Noise Immunity Calculation When the Communication Channel Parameters Vary Discontinuously ..	11
V.M. Danilenko: Effect of Sync Instability on the Noise Immunity of PCM Wideband Reception With Post-Detector Integration	18
A.A. Voronin: Limiting Noise Immunity in Channels with Fixed and Fluctuating Parameters	24
V.Ye. Dyrda: Error Probability and Transmission Rate in a Meteor Communication Channel Using Minimal Multiposition Codes	29
A.P. Bilenko: "Loud" and "Soft" Communication Systems	33
F.F. Kicha: Square Pulse Integrator Parameters for Signal Separation in a Synchronous Multichannel System	39
A.A. Gorbachev, A.M. Shabalin and V.M. Shushin: A Compensation Method for Reducing RF Noise in Wire Channels	44
S.G. Gosenchenko and M.G. Korniyenko: Correlation in Angle Diversity Reception ..	47
V.A. Gushchin and A.A. Yeliseyev: Measurement of Signal Frequencies in FSK	50
BRIEF COMMUNICATIONS	
G.Kh. Pan'kov: Automatic Monitoring of Switched Trunk Accuracy in Large Broadcast Distribution Centers	54
B.I. Chirkov: Noise Immunity of Coherent Detection in PSK Telegraphy When Sinusoidal and Fluctuation Noise Are Present Simultaneously	56
BOOK REVIEW	
V.O. Shvartsman: Mutual Influences in Communication Cables	59
New Books	60

RADIOTEHNIKA No. 8, 1967

V.T. Goryainov: Signal-to-Noise Ratio at the Output of a Linear System for a Detuned Input Signal	63
V.I. Chaykovskiy: Systematic Errors in Determining the Spectral Density of Stationary Random Processes	70
A.L. Doktorov: Skewness and Kurtosis of a Random Process at the Output of a Matched Filter	76
I.T. Turbovich: Expansion of Periodic Functions in a Series Similar to a Kotelnikov Series	79
Engineering News from Abroad: Mobile Transistor Radio Stations	83
N.M. Ashimov: Transistor Low-Pass High-Q LC-Filter	84

(Co..td)

Available From Inst. of Elect. and Electronics Eng

A. A. Doronin: Approximate Method of Determining the Phase Distribution in an Antenna Aperture	89
M. I. Kontorovich: The Manley-Rowe Relations and One of Their Generalizations ...	93
G. V. Voyshvillo: General-Purpose Method of Designing Pulsed-Amplifier Stages with Low-Frequency Compensation	100
Seminar on Circuit Theory	105
M. S. Nemirovskiy: Noise Immunity of the AGC System of Telegraph Pulsed Receivers	106
A. F. Aporovich: The Accuracy of Measuring Carrier Frequency by Panoramic Radio Receivers	112
V. Yu. Vorobkevich and M. A. Rakov: Frequency Doublers and Dividers Using Switching Phase Detectors	115
G. B. Al'tshuller and B. G. Parfenov: Analysis of the Frequency-Temperature Characteristics of Quartz Resonators	118
A. I. Viches: Design of Pulsed-Signal Magnetic Recording Systems (Conclusion)	121
A. G. Cherkashina: Trigger Elements Using the Capacitance of a p-n Junction	126
A. I. Geren and N. M. Zhukovskiy: High-Efficiency 150-W Metal-Ceramic Beam Tetrode for Use at 1000 Mc	130
V. V. Avdeyev and V. A. Likharev: The Effectiveness of Maximum-Likelihood Direction-Finding	134
BRIEF COMMUNICATIONS	
A. Z. Zavodovskiy and K. A. Shchutskoy: Stability of Active Nonunidirectional Four-Terminal Networks	138
G. M. Nayda: Design of the Final Stage of a Wide-Band Amplifier of Sinusoidal Signals	141
P. M. Geruni: Microwave Balanced Frequency Converter	143
Nguyen Suan-Ba: Double Selection System in Diversity Reception	146
Yu. L. Bogorodskiy and T. P. Bogorodskaya: Investigation of the Frequency Characteristics of the Q-Factors of Coils	148
V. Yu. Roginskiy and N. M. Romanova-Dubina: History of the First Electronic-Television Apparatus in the USSR	153
BOOK REVIEW	
G. V. Voyshvillo: "Amplifiers" by I. G. Mamonkin, A Textbook for Higher Institutes and Faculty of Radio Engineering, Svyaz', 1966	155
New Books	156

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	cosh ⁻¹
Arcth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ⁻¹
Arth	tanh ⁻¹
arccos	cos ⁻¹ (arc cos)
arctg	cot ⁻¹ (arc cot)
arcsin	sin ⁻¹ (arc sin)
arctg	tan ⁻¹ (arc tan)
ch	cosh
cosec	csc
ctg	cot (ctn)
cth	coth (ctnh)
rot	curl
sch	sech
sh	sinh
tg	tan
th	tanh

Available from Inst. of Elect. and Electronics Eng.

FIZIKA TVERDOGO TELA EDITORIAL BOARD
A. I. Ansel'm
A. S. Butovsk-Romanov
L. N. Dohretsov
L. P. Gor'kov
O. V. Konstantinov
M. I. Kornfel'd
(L. I. Korovin
(Secretary)
M. I. Korsunskii
M. A. Krivonoz
G. V. Kuvshinov
I. M. Lifshits
Ch. B. Lushchik
A. N. Orlov
A. P. Prikhot'ko
A. R. Regel
B. M. Ryvkin
G. A. Smolenskii
V. M. Tschkevitsh
B. K. Vainshtein
V. S. Vavilov
L. P. Vereshchagin
B. N. Zhurkov
(Leningrad State University
V. P. Zhurav

Soviet Physics SOLID STATE

A Translation of "Fizika Tverdogo Tela"

(Russian Original Vol. 9, No. 7, pp. 1861-2144, July, 1967)

Vol. 9, No. 7, pp. 1467-1686

January, 1968

CONTENTS

	PAGE	RUSS. PAGE
Investigation of the Influence of Free Current Carriers on the Elastic Constants of Germanium and Silicon. <u>A. E. Kadyshovich, V. M. Bellin, Yu. Kh. Vekilov, O. M. Krasil'nikov, and V. N. Podd'yakov</u>	(T/E) 1467	1861
Mechanism of Optical Damage of Transparent Polymers. <u>N. V. Volkova, V. A. Likhachev, S. M. Ryvkin, V. M. Salmanov, M. I. Stepanov, L. M. S. stopalov, and I. D. Yaroshetskii</u>	(E) 1473	1868
Temperature Dependence of the EPR Line Width of Paramagnetic Impurities in Metals. <u>B. M. Khabibullin</u>	(T) 1478	1874
Energies and Intensities of Electron Transitions in RbCoF ₃ . <u>R. V. Pisarev and S. D. Prokhorova</u>	(E) 1482	1879
Magnetic Susceptibilities of Some Chalcogenides of the Rare-Earth Elements. <u>G. V. Lashkarev and A. V. Savitskii</u>	(E) 1485	1883
Size Effect and Anisotropy in the Strength of Sapphire Crystal Whiskers at Room Temperature. <u>S. Z. Bokshtein, S. T. Kishkin, M. P. Nazarova, and I. L. Svetlov</u>	(E) 1488	1887
Energy Spectrum of Alkali Metal Ions Transmitted by Thin Copper Films. <u>E. M. Zarutskii</u>	(E) 1495	1896
Magnetic Fields of the Nuclei of Sn ¹¹⁹ Impurity Atoms in Ferromagnetic Materials. <u>A. E. Balabanov and N. N. Delyagin</u>	(E) 1498	1899
Electrical Properties of Inversion Layers Produced in Silicon by Bombardment with Phosphorus and Aluminum Ions. <u>V. K. Vasil'ev, E. I. Zorin, P. V. Pavlov, and D. I. Tetel'baum</u>	(E) 1503	1905
Work Function of Faces of a Rhenium Single Crystal in Vacuum and in a Stream of Cesium Atoms. <u>A. P. Ovchinnikov</u>	(E) 1508	1911
Absorption of Hypersound in Ferroelectrics at Low Temperatures. <u>B. I. Shklovskii</u>	(T) 1512	1917
Migration of Excitons in Uranyl Salts. <u>A. P. Abramov, I. N. Abramova, and N. A. Tolstoi</u>	(E) 1516	1923
Field-Emission Study of the Adsorption of Sodium on Faces of Tungsten and Rhenium Single Crystals. <u>A. P. Ovchinnikov and B. M. Tsarev</u>	(E) 1519	1927
Structural Changes in an Aluminum-Germanium Solid Solution at the Stage of Decomposition Corresponding to Maximum Hardness. <u>L. M. Sorokin and A. A. Sitnikova</u>	(E) 1525	1935
Photoconductivity and Recombination of Triplet Excitons in Anthracene. <u>E. L. Frankevich and I. A. Sokolik</u>	(E) 1532	1945

Copyright © 1968 by the American Institute of Physics

(Contd.)

Available from American Institute of Physics

			RUSS. PAGE	PAGE
Electrooptical Properties of Triglycine Sulfate. <u>A. S. Sonin and A. S. Vasilevskaya</u>	(E)	1536	1951	
Positron Annihilation in Metals. <u>V. L. Sedov</u>	(T)	1540	1957	
Exchange Pairs of Nitrogen Impurities in Diamond. <u>L. A. Shul'man, I. M. Zaritskii, and K. A. Tikhonenko</u>	(E/T)	1545	1964	
Theory of Spin-Lattice Relaxation of Impurity Centers. <u>L. L. Buishvili and M. D. Zviadadze</u>	(T)	1549	1969	
Splitting of the 4274 cm^{-1} Absorption Line of the Ni^{2+} Ion in a ZnS Single Crystal and the Jahn-Teller Effect. <u>K. K. Dubenskii, A. I. Ryskin, and G. I. Khil'ko</u>	(T/E)	1553	1974	
Theory of Electromagnetic Excitation of Magnetoelastic Waves in Ferromagnets. <u>G. M. Nedlin and R. Kh. Shapiro</u>	(T)	1560	1983	
Broadening of the Optical Branches of the Phonon Spectrum in Metal Hydrides. <u>I. Karimov, E. G. Brovman, M. G. Zemlyanov, V. A. Somenkov, and N. A. Chernoplekov</u>	(T)	1566	1991	
Rotational Mobility of Crystallites in Oriented Kapron (Polycaprolactam). <u>V. S. Kuksenko, S. Nizamidinov, and A. I. Slutsker</u>	(E)	1569	1996	
Effect of an Electrostatic Field on the Amplitude Dependence of Internal Friction in LiF. <u>A. A. Blistanov, A. N. Pavlov, Ya. M. Soifer, and M. P. Shaskol'skaya</u>	(E)	1574	2001	
Structure of the Electronic Energy Spectrum in Nonpolar Liquids. <u>R. R. Dogonadze, A. M. Kuznetsov, and A. A. Chernenko</u>	(T)	1578	2007	
Crystal Field Parameters of Trigonal Er^{3+} Centers in CaF_2 Crystals. <u>G. M. Zverev and A. I. Smirnov</u>	(E/T)	1586	2019	
Direct Observation of Screw Dislocations Perpendicular to the Surface of Single-Crystal Silicon. <u>L. N. Danil'chuk and V. I. Nikitenko</u>	(E)	1592	2027	
The Pinch Effect and Current Breakdown in Electron-Hole Plasma. <u>A. E. Stefanovich</u>	(T)	1598	2035	
Interaction between Radiations Defects and Dislocations in Germanium. <u>V. V. Khainovskaya and L. S. Smirnov</u>	(E)	1603	2043	
EPR Investigation of $\text{Mn}^{2+}-\text{S}_2^{2-}$ in Sodium Chloride Crystals. <u>M. I. Kornfel'd and Yu. N. Toiparov</u>	(E)	1607	2047	
Magnetoelastic Interaction in Antiferromagnets. <u>V. G. Bar'yakhtar and V. V. Gann</u>	(T)	1611	2052	
Electron-Phonon Interaction Model in Solid-State Laser Theory. Nonlinear Polarization of the Impurity Center. <u>E. D. Trifonov, A. S. Troshin, and E. E. Fradkin</u>	(T)	1617	2061	
Hyperfine Structure of EPR Spectra of Rare-Earth Ions in Glasses. <u>T. S. Al'tshuler</u>	(E/T)	1623	2070	
Relationship between the Damage of Ruby Crystals during Laser Emission and the Optical Homogeneity. <u>E. M. Akulenok, V. S. Papkov, and V. Ya. Khaimov-Mal'kov</u>	(E)	1627	2075	
Polaron Mechanism of Light Absorption in Rutile Crystals (TiO_2). <u>V. N. Bogomolov, E. K. Kudinov, D. N. Mirlin, and Yu. A. Firsov</u>	(E/T)	1630	2077	
Influence of a Magnetic Field on the Thermal Conductivity of a Ferroelectric at Low Temperatures. <u>V. N. Kashcheev and A. E. Shvets</u>	(T)	1640	2091	
Inelastic Reflection of Plasma Waves from a Metal Boundary. <u>M. A. Mekhtiev</u>	(T)	1645	2098	
BRIEF COMMUNICATIONS				
Mechanical Twinning in Indium Antimonide and Germanium. <u>F. L. Edel'man</u>	(E)	1648	2103	
Conditions for Ferromagnetic Resonance in Single-Crystal Films. <u>V. A. Ignatchenko and G. I. Rusov</u>	(T/E)	1650	2105	

Available from American Institute of Physics

		PAGE	RUSS. PAGE
Ising Lattice at Negative Absolute Temperatures. <u>I. M. Ratner</u>	(E)	1652	2107
Acoustical Noise in CdSe. <u>V. I. Baibakov</u>	(E)	1654	2109
Electrical Conductivity of Ca, Sr, and Ba Fluorides Containing TR^{3+} Impurity. <u>T. I. Nikitinskaya, E. V. Suntsov, and M. S. Tyutin</u>	(E)	1656	2111
Theory of Saturation of Parametric Resonance of Spin Waves in Ferrites. <u>G. A. Petrakovskii</u>	(T)	1658	2113
Effect of an External Electric Field on the Absorption of Sound in a Dielectric. <u>I. V. Ioffe and B. I. Shklovskii</u>	(T)	1660	2116
Modulation of Light Absorption in Germanium at the Boundary with Electrolytes. <u>P. P. Konorov and S. V. Shohogolikhina</u>	(E)	1661	2117
Exchange Interactions of Cr^{3+} Ions in Ruby. <u>Yu. L. Shelekhin, M. P. Votinov,</u> <u>and B. P. Berkovskii</u>	(E)	1663	2119
Influence of Oxygen Impurity on the Conductivity of Lithium Fluoride. <u>Yu. B. Vladimirovskii, T. I. Nikitinskaya, and P. A. Tsirul'nik</u>	(E)	1666	2122
Absorption of Longitudinal Long-Wave Ultrasound in Superconducting Alloys Having a Multiband Anisotropic Fermi Surface. <u>I. I. Fal'ko</u>	(T)	1668	2124
The Displacement of F^- Ions in CaF_2 Crystals by γ -Irradiation. <u>N. E. Kask</u> <u>and L. S. Kornienko</u>	(E)	1670	2127
Effect of X-Ray Irradiation on Prehardened Regions of NaCl Single Crystals. <u>Yu. S. Boyarskaya and R. P. Zhitaru</u>	(E)	1672	2129
Second Harmonic Generation in Crystals of RbH_2AsO_4 (RDA) without Birefringence. <u>V. S. Suvorov and A. A. Filimonov</u>	(E)	1674	2131
Changes in the Concentration of Gold in Silicon. <u>R. Sh. Malkovich</u>		1676	2132
Oscillations of the Current in Piezoelectric Semiconductors. <u>V. I. Baibakov</u> <u>and G. S. Pado</u>	(E)	1678	2135
Investigation of the Characteristic Temperature of a Molecular Crystal. Tensor Derivatives of the Characteristic Temperature. <u>B. D. Koreshkov</u> <u>and A. I. Kitaigorodskii</u>	(E)	1680	2137
Trivalent Rare Earths in Cerium Dioxide Single Crystals. Dysprosium. <u>Z. N. Zonn, A. N. Katyshev, I. N. Kurkin, and L. Ya. Shekun</u>	(E)	1682	2138
Acoustical Modes of Plasma Electron Oscillations in Metals in a Quantizing Magnetic Field. <u>S. L. Ginzburg, O. V. Konstantinov, and V. I. Perel'</u>	(T)	1684	2139

Available from American Institute of Physics

SOVIET PLANT PHYSIOLOGY

A translation of *Fiziologiya Rastenii*

Volume 14, Number 3

May-June, 1967

CONTENTS

	Engl./Russ.
Localization of the Free Space in Barley Roots—D. B. Vakhmistrov	337 397
Investigation of the Bleeding Sap of Grape Vines—É. S. Avundzhyan, S. A. Marutyan, A. D. Dogramadzhyan, and Zh. A. Petrosyan	344 405
Some Proofs of the Splitting of Sucrose during its Movement from Mesophyll into the Fine Bundles of Sugar-Beet Leaves—M. I. Brovchenko	352 415
Sucrose Transport across the Cell Membranes of Vascular Tissue —M. V. Turkina and S. V. Sokolova	360 425
Uptake of Sugars by the Root of Sugar Beet—V. É. Pontovich	368 434
Localization of Sucrose in Tissue of the Storage Root of the Sugar Beet —V. P. Kholodova	376 444
Influence of Prolonged Shading upon the Pigments and Plastid Apparatus of some Sun and Shade Plants—T. N. Godnev and É. F. Shabel'skaya	382 451
Comparative Study of the Physiological Activity of Five Gibberellins —V. N. Agnistikova and G. S. Muromtsev	387 456
Generation of Potentials in the Pistils of <i>Incarvillea</i> and Lily in Conjunction with Movement of the Stigma and Fertilization—A. M. Sinyukhin and E. A. Britikov	393 463
Formation and Physiological Role of Callose Pollen Tube Plugs —N. V. Tsinger and T. P. Petrovskaya-Baranova	404 477
Change in the Cytophysiological State of the Apical Meristem of Barley Shoots in Connection with the Transition to the Reproductive Phase —É. P. Rostovtseva	411 486
Significance of Respiration in Plant Cell Water Content under Drought Conditions —P. A. Genkel', K. A. Badanova, and I. N. Andreeva	418 494
Effect of Respiratory Inhibitors on the Uptake of Oxygen by Wilting Plants —V. N. Zholkevich and A. Ya. Rogacheva	424 500
Investigation of the Influence of Drought on the Cytoplasmic Protein Structure of Plant Leaves by the Dielectric Method at Ultrahigh Frequencies —N. V. Sedykh and L. P. Khokhlova	429 507
Resistance of Hardened Woody Plants to Dehydration at Low Temperatures —F. A. Krasavtsev	433 512
Physiological Mechanism of Frost Resistance of Plants—I. I. Tumanov	440 520
BRIEF COMMUNICATIONS	
Effect of Magnetic Field and Rotation of the Earth on Seed Germination and Shoot Growth—P. P. Chuvaev	456 540
Total Rate of Expenditure of C^{14} -Assimilates in Translocation and Respiration in the Leaves of various Beet and Tomato Varieties—V. S. Rodionov	459 544
Diurnal Rhythm of Nitrogen Metabolism in Plants—I. I. Razmaev	462 546

(Contd)

Available from Consultants Bureau

(continued)

Engl./Russ.

Effect of 2-Chloroethyltrimethylammonium Chloride (CCC) on some Characteristics of the Water Conditions in Plants—N. N. Kharanyan	465	548
Diurnal Dynamics of the Phloridzin and Flavonol Content in Apple Shoots —T. Vard'ya and L. Sarapuu	469	551
METHODS		
Recording Press-Centrifuge for Fractional Extraction of Water and Water-Soluble Substances from Plant and Animal Tissues—G. V. Lebedev	473	555
BOOK REVIEWS		
P. A. Genkel' and S. V. Kushnirenko. Cold Resistance of Plants and Thermal Methods of its Increase—Reviewed by D. F. Protsenko, P. S. Mishustina, and E. K. Beletskaya	477	559
NEWS EVENTS		
Current State and Prospects of Development of Investigations into the Problem of Photosynthesis in the Ukraine—V. A. Kapitanchuk, V. I. Natsik, and A. G. Semenov	480	562
Zenon Iosifovich Zhurbitskii (On His Seventieth Birthday)	483	565
ERRATA	487	564

The Russian press date (podpisano k pechati) of this issue was 5/3/1967. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available from Consultants Bureau

SOVIET PLANT PHYSIOLOGY

A translation of *Fiziologiya Rastenii*

Volume 14, Number 4

July-August, 1967

CONTENTS

	Engl./Russ.
Ratio of the Specific Activities of Chlorophylls A and B in Greening Etiolated Seedlings -A. A. Shlyk, A. P. Losev, and S. N. Shevchuk	489 573
Effect of Light of Various Spectral Compositions on Some Aspects of Auxin Metabolism in Cultures of Isolated Carrot Tissue-V. S. Polevaya	496 582
Adaptation of Green Plants to the Spectral Composition of Solar Radiation -I. A. Shul'gin.	504 592
Photosynthesis in Leaves as a Function of Temperature-S. N. Chmora and V. M. Oya. .	513 603
Physiological Characteristics of <i>Chlorella</i> sp. K at High Extremal Temperatures. 1. Decoupling Effect of Extremal Temperatures on the Cellular Functions of <i>Chlorella</i> -V. E. Semenenko, M. G. Vladimirova, and O. B. Orleanskaya	520 612
Growth and Mineral Nutrition of <i>Chlorella</i> on a Balanced Medium-E. D. Kuznetsov. . . .	532 626
Effect of Concentration of Nutrient Medium on the Physiology of <i>Anacystis nidulans</i> in Intensive-Culture Conditions-M. A. Ignat'evskaya and N. I. Raikov.	538 634
"Trigger" Mechanism of Germinating Seeds. III. Effect of Diamines on Germinating Seeds-L. A. Nezgovorova and N. N. Borisova.	546 644
Influence of Potassium Ions on the Resting Potential of the Root Cells of <i>Cucurbita pepo</i> -A. M. Sinyukhin and E. I. Vyskrebentseva.	553 652
Effect of Compressed Gases on Oxygen Transport in Roots. (Diffusion Mechanism of the Radiation Protection Effect of Compressed Gases)-V. P. Paribok and V. S. Kal'nii	558 659
Effect of Zinc Fertilizers on the Biochemical Characteristics of Corn at Different Zinc-Supply Levels-V. S. Dibrova	566 670
Free Amino Acids in the Root System of the Pea-G. I. Lopukhina	570 675
Role of Rhizospheral Microorganisms in the Relationships of Plants through their Root Secretions-V. P. Ivanov, G. A. Yakobson, and V. I. Smirnova.	577 683
Investigation of Amino Acid Metabolism with C ¹⁴ in Young Corn Plants Raised under Different Nutrition Conditions-M. Sarich, T. Chupina, I. Gerich, and I. Vereshbarani	585 693
Biochemical Characteristics of the Generative Systems of High and Low Heterosis Lines of Maize in Relation to Heterosis-E. L. Golynskaya, T. M. Grigorenko, T. V. Zhigalenko, and N. K. Oman.	592 701
Formation of Sporogenous Cells in the Culture of Isolated Male Flower Buds of Woody Plants. (Effect of Heteroauxine and Kinetin)-I. I. Leshkovtseva	599 710
Change in Nucleic Acid Metabolism in Plants Under Saline Conditions-V. V. Kabanov and L. N. Aziyashvili	606 719
Accumulation of Oligosaccharides and their Significance in the Low-Temperature Hardening of Cereal Grains-V. I. Babenko and A. M. Gevorkyan	613 727
Accumulation of Free Proline in Barley Plants in the Presence of Insufficient Soil Water-N. N. Savitskaya	622 737

(Contd)

Available from Consultants Bureau

	Engl./Russ.
Influence of Different Types of Salinization on Mitosis in the Roots of Sunflower and Barley Shoots—L. F. Gaidamakina.	625 740
Stably Bound Manganese in Chloroplasts—N. I. Zakharova, Zh. I. Nemtseva, and V. M. Kutyurin.	628 742
Transpiration and Diffusion Pressure Deficit of Broom Rape and the Plant Host —U. Kh. Rakhimov.	631 745
Influence of Giberellin and Riboflavin on Certain Aspects of Energy Metabolism in Plants—V. I. Artamonov.	633 747
METHODS	
New Apparatus for Determination of Plant Respiration—I. A. Kuperman, E. V. Khitrovo, and G. A. Bochkov.	636 750
BOOK REVIEWS	
S. T. Radehenko. Temperature Gradients in the Environment and the Plant —Reviewed by A. F. Kleshnin.	641 755
EVENTS	
Report of a Special Meeting of the Academy of Sciences of the Ukrainian SSR on "The Physiology and Biochemistry of Plant Growth Regulation"—F. L. Kalinin and V. N. Kapitanchuk.	643 757

The Russian press date (podpisano k pechati) of this issue was 7/8/67.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available from Consultants Bureau

	English Page	Russian Page
S. A. Braginskiy: Principles of the Theory of the Earth's Hydromagnetic Dynamo	323	401
M. V. Samokhin: Influence of an Electric Field on the Motion of Charged Particles in an Inhomogeneous Magnetic Field	330	411
S. N. Vernov, D. V. Vuklov, S. N. Kuznetsov, Yu. I. Logachev, E. N. Sosnovets, and V. G. Stolpovskiy: Boundary of the Outer Radiation Belt and Zone of Unstable Radiation	335	417
A. I. Lebedinskiy, V. I. Tulupov, Yu. P. Safronov, Yu. G. Andrianov, and I. I. Karavayev: Statis- tical Characteristics of Outgoing Terrestrial Radiation at Wavelengths 7-26 μ	340	423
N. F. Nuss: Remarks on the Interpretation of Lunik-10 Magnetometer Results	346	431
Sh. Sh. Dolginov, Ye. G. Yeroshenko, L. N. Zhuzgov, and I. A. Zhulin: Possible Interpreta- tion of the Results of Measurements on the Lunar Orbiter Luna 10	352	436
A. V. Gulyel'mi: Theory of Hydromagnetic Sounding of Plasma Concentration in the Exosphere ..	357	442
V. I. Shishov: Determination of the Parameters of Interplanetary Magnetic Field Inhomo- geneities from the Anisotropic Stage of Cosmic-Ray Bursts	364	451
L. I. Miroshnichenko: Dependence of the Diffusion Coefficient of Solar Cosmic Rays on the Distance from the Sun	368	456
G. V. Gukin and M. N. Fatkullov: Space-Time Distribution of Ionization in the F ₂ Region of the Ionosphere at High Latitudes in the Southern Hemisphere	373	463
K. N. Vasil'yev: Geomagnetic Effect in Vertical Displacements of Ionization in the F Region of the Ionosphere	378	469
D. Samardziev and K. Serafimov: Asymmetry in the Diurnal Variations of the E-Layer	382	475
N. I. Potapova and B. S. Shapiro: Low-Lying Nighttime Ionization in the Ionosphere	389	484
V. Ye. Kashprovskiy and F. A. Kuzubov: Method of Allowing for the Stratified Structure of the Earth in the Medium Radio Wave Range	395	492
V. M. Driatskiy: Auroral Absorption in Conjugate Regions at High Latitudes	398	496
T. L. Vinnikova: New Method of Finding the Matrix of Coefficients for Computing N(h) Profiles of the Ionosphere	403	502
V. N. Lugovenko and N. N. Lugovenko: Determination of the Direction of the Magnetization Vector of Magnetic Rocks by Computation of Some Statistical Parameters of the Anomalous Magnetic Field	407	507
A. Ya. Rotshteyn: Measurement of the Geomagnetic Field Components in the Plane of the Magnetic Meridian at Sea by the Nuclear-Precession Method	411	512
N. V. Rusanova: Measurements of Geomagnetic Field Components at Sea by Means of a Two-Component Towed Magnetometer	415	516
N. D. Medvedev: Results of Geomagnetic Investigations in East Antarctica during the Sixth Soviet Antarctic Expedition in 1960-1962	418	520
BRIEF COMMUNICATIONS		
A. K. Pankratov and A. A. Stepanyan: Some Dynamic Phenomena in Diurnal Cosmic-Ray Variation	424	528
L. I. Miroshnichenko: Possible Collective Solar Cosmic-Ray Injection into the Geomagnetosphere	426	530
N. N. Yefimov: Method of Allowing for Atmospheric Effects in the Study of the Stellar-Diurnal Variations of Air Showers	428	532
L. A. Shechepkin: Equilibrium F ₁ -Layer at Low Solar Activity	428	532
V. A. Misyura, G. N. Takechev, Yu. G. Yerokhin, V. I. Ivanov, and G. A. Drozdetskiy: Method of Conducting Ionospheric Measurements from Noncoherently Scattered Radio Signals	431	535
T. V. Kazachevskaya and G. S. Ivanov-Kholodnyy: Diurnal Variations of Electron Concentration and the Change in Ionospheric Temperature at Heights of 160-200 KM	433	537
A. A. Starovarov: Long-Period Variations of the Cutoff Frequencies of the Sporadic E-Layer ...	436	540
S. S. Chavdarov, S. P. Chernysheva, and V. P. Dubkina: Change in the Range of the Semi- transparency of E _s According to Observations at Rostov-on-the-Don	437	541
Ya. M. Shvarts and S. I. Andriyeva: Sporadic E-Layer and Magnetic Activity	438	542
K. B. Serafimov and N. P. Danilkin: Determination of the Initial Height of the Ionosphere	440	544
S. P. Chernysheva and G. N. Poteiyunko: Computation of the Stability Coefficient	443	547
G. M. Arosnidze, V. A. Zagulyayev, A. A. Kashin, Yu. V. Kushnerevskiy, and D. S. Chikovani: Relationship between S _q -Variations and Drift in the Ionosphere	444	548
S. A. Namarov and T. Ye. Ryshkina: Possible Use of the Correlation Method of Wide-Band Signal Reception in the Study of the Parameters of Ionospheric Inhomogeneities and Signal Distortion	447	551
A. N. Zaytsev and Ya. I. Feldshteyn: Polar Disturbances and Current System According to Data Obtained in the Winter Season of the IGY	449	553
V. K. Roldugin: Short-Period Pulsations of Auroral Cosmic Noise Absorption	454	559
R. V. Abramov: An Interesting Manifestation of the Sunspot Cycle in Atmospheric Circulation ...	456	561
V. N. Lugovenko: Computation of the Autocorrelation Function of the Anomalous Magnetic Field from Experimental Data	459	564
B. M. Lyakhov: Current Function of the Main Geomagnetic Field Represented by Three Eccentric Dipoles	461	566
V. P. Golovkov and A. N. Pushkov: Reversible Magnetostriction of Magnetite at High Temperatures	463	568
V. A. Konstantinov: Wide-Band Converter of the Wave-Guide Type	465	570
V. N. Dobrov and T. P. Puolokaynen: Experience with Quartz Variometers at the Central Magnetic Observatory of the USSR	466	571

English edition published, February 1968

Available from American Geophysical Union

TRANSLATIONS FROM HOC TAP (STUDIES)

No 10, 1967

- North Vietnam -

This publication contains the complete translation of the Vietnamese-language periodical, Hoc Tap (Studies), Hanoi, No. 10, October 1967. Complete bibliographic information accompanies each article.

CONTENTS

	<u>Page</u>
Emulate One Another's Feat-Scoring in the Fight Against the U.S. For National Salvation (Editorial).....	1
Raising Revolutionary Enthusiasm and Developing a High Creative Spirit (Tran Quoc Hoan).....	7
Warm Congratulations to The Chinese People's Republic on Her 18th Anniversary (Ngo Minh Loan).....	22
Marxism and the Vietnamese People's Revolutionary Movement (Tran Quang Huy).....	28
The Campaign to Report and Perform Anti-US National Salvation Acts of Merit (Hoang Dai).....	45
The Campaign to Report and Perform Anti-US National Salvation Acts of Merit in Thai Binh (Nguyen Ngoc Triu)....	51
Strengthening the District Echelon and Developing a 'Four Good' District Committee (Duong Dinh Mac).....	51

(Contd)

Available from JPRS 44019

CONTENTS (Continued)

	<u>Page</u>
The Vinh Bao District Committee is Determined to Carry Out The 'Three Improvements' (Vu Ba Ngoc).....	71
Bac Ha District Committee Struggles to Comply With the Requirements For a 'Four Good' District Committee (Le Cam).....	79
The Ethnic Minorities in the Highlands Mature in Combat (Phong Chi).....	86
Developing a Corps of Young Writers (Bui Huy Phon).....	94
<u>Das Kapital</u> : A Great Work of Art. (Nguyen Van Son).....	103

Available from JPRS 44019

TRANSLATIONS FROM HUNG-CH'I (RED FLAG)

No. 16, 1967

- Communist China -

No. 70

This serial publication contains the complete translation of articles from the Chinese-language periodical Hung-ch'i (Red Flag), Peking, No. 16, 23 November 1967. Complete bibliographic information accompanies each article.

CONTENTS

	<u>Page</u>
Carry Out Revolutionary Great Alliances According to Fields of Work.....	1
Comrade Lin Piao's Speech.....	2
Advance Along the Road Opened Up By the October Revolution.....	8
Struggle Between the Two Roads in China's Country-side.....	19
Thoroughly Establish the Absolute Authority of the Great Supreme Commander Chairman Mao and of His Great Thought.....	37

Available from JPRS 43921

(Contd)

Study Classes for Mao Tse-Tung's Thought Based On Three-way Combination Are Very Good Indeed.....	53
A Good Way to Combat Self-interest and Criticize and Repudiate Revisionism.....	56
Carry Out the Activity of "One Helping Another to Form a Red Pair," Develop and Consolidate the Revolutionary Great Alliance.....	65

Available from JPRS 43921

	<u>Page</u>	
	<u>English</u>	<u>Russian</u>
S. S. VOIT, Tides in Oceans and Seas (A Survey of Soviet Research during the Past Fifty Years)	329	579-591
R. L. KAGAN (COHEN), Construction of Optimal Finite-Difference and Quadrature Formulas for Homogeneous and Isotropic Random Fields	337	592-601
KH. ZH. DIKINOV, Calculation of the Freezing Depth of Snow-Covered Soil from a Given Air Temperature	343	602-610
G. I. GORCHAKOV AND G. V. ROZENBERG (ROSENBERG), Correlation of the Optical Properties of Finely Dispersed Hazes	348	611-620
G. SH. LIVSHITS AND B. T. TASHENOV, Intensity of Scattered Radiation at Small Angular Distances from the Sun and the Aerosol Spectrum	354	621-628
A. YA. PEREL'MAN, Calculation of the Density Distribution Function of Particles According to the Spectral and Angular Characteristics of the Dispersive System	359	629-639
M. S. KISELEVA, B. S. NEPORENT, AND E. O. FEDOROVA, Atmospheric Absorption of Infrared Radiation by H ₂ O and CO ₂ in the Case of Unresolved Structure of the Spectrum for Slant Paths	365	640-653
Short Communications		
A. K. GORODETSKIĬ, A. S. GURVICH, AND A. V. MIGULIN, The Determination of the Ground Surface Temperature from an Aeroplane by Measuring the Outgoing Radiation in the 8-12 Micron Band	373	654-657
M. V. KABANOV AND B. A. SAVEL'EV, The Brightness of Multiply Forward-Scattered Light	376	658-661
A. P. IVANOV AND G. K. IL'ICH, The Light-Transmission Coefficient of Very Thick Scattering Layers	379	662-666
A. S. MONIN, Surface Area of a Wave-Disturbed Sea	383	667-670
Chronicle		
G. N. GAEVSKAYA AND E. L. PODOL'SKAYA, Seminar on Radiative Heat Exchange in the Atmosphere	386	671

Available from American Geophysical Union

English Edition Published December 1967

Bulletin of the Academy of Sciences of the USSR - Physical Series
Vol. 31, No. 1 - January 1967

Table of Contents

Page
Orig. Trans.

Transactions of the Sixteenth Annual Conference on Nuclear Spectroscopy
and Nuclear Structure

Some recent developments in nuclear spectroscopy at Chalk River - R.L.Graham	2	3
Gamma-vibrational states in Re^{185} and Re^{187} - K.Maack Bisgard, L.J.Nielsen, E.Stabell & E.Veje	18	28
In-beam spectroscopic studies of neutron-deficient nuclei of osmium, platinum and mercury - G.Burde, R.M.Diamond & F.S.Stephens	21	31
Possible cases of parity mixing in electromagnetic transitions - G.Scharff-Goldhaber & M.McKeown	32	**
Limits of lepton conserving and lepton non-conserving double beta decay in Ca^{48} - E. der Mateosian & M.Goldhaber	34	**
Analysis of the moments of inertia of odd-odd nuclei - G.Scharff-Goldhaber & K.Takahashi	38	42
Single-particle and vibrational states of the odd-A deformed nuclei in the rare-earth region - C.W.Reich & M.E.Bunker	42	46
Magnetic moments of the 4^+ rotational states in deformed nuclei - F.Boehm & G.B.Hagemann	55	61
The beta- and gamma-vibrational bands in ^{152}Sm and ^{154}Gd - Liu Y-t, O.B.Nielsen, P.Salling & O.Skilbreid	63	69
Pure-Fermi beta transitions with $\Delta T = 1$: The decay of ^{156}Eu to an excited 0^+ state - P.G.Hansen, H.L.Nielsen & K.Wilsky	68	74
Studies of the energy levels of ^{238}U by inelastic scattering of neutrons and deuterons - A.T.G.Ferguson	74	80
Charge of the recoil atoms accompanying alpha emission - N.Perrin & W.De Wielelawik	30	86
The level scheme of ^{223}Ra - C.Vieu, C.Briancon, G.Bastin, F.C.Leang, J.Treherne & R.J.Walen	85	91
Lifetimes of the first excited states in Sn^{118} and Sn^{120} by the nuclear gamma-ray resonance method - B.Hrastnik, V.Knapp & M.Vlatkovic	98	**
The (n,p) and (n,d) reactions on calcium at 14.4 MeV - B.Antolković & D.Miljanić	105	103
Interaction of 14.4 MeV neutrons with N^{14} - B.Antolković, G.Paić, D.Rendić & P.Tomaš	110	107
The Heidelberg high-resolution $\pi/\sqrt{13}$ β -ray spectrometer - H.Daniel & P.Jahn	113	110
Apparatus for measuring spectra of radioisotopes with half-lives from one second down to a millisecond - R.S.Bender, I.R. Williams & K.S.Toth	117	**
Investigation of the radiation from ^{145}Eu - N.Adam, K.Wilsky, Zh.Zhelev, M.Jorgensen, M.Krivopustov, V.Kuznetsov, O.B. Nielsen & M.Finger	122	114
On the probabilities of transitions between the $5/2^- [532]$ and $3/2^+ [411]$ states of ^{159}Tb , ^{157}Tb , ^{155}Tb and ^{155}Eu - A.Kokeš & J.Zvolský	133	125

(Contd)

Available from Columbia Technical Translations

- 166 -

Fine structure of alpha spectra in the rare-earth region - V.G. Chumin, Zh.T.Zhelev, K.Ya.Gromov & B.Makhmudov	146	138
Measurements of the energies of the principal alpha groups of ^{225}Ac - B.S.Dzhelepov, R.B.Ivanov, L.N.Moskvin & V.F.Rodionov	151	143
Investigation of the radiation of ^{152}Tb - K.Ya.Gromov, V.V. Kuznetsova, M.Finger, Ya.Urbanets, O.B.Nielsen, K.Wilsky, O.Skilbreid & M.Jorgensen	154	**
Properties of rotational bands based on $K = 1/2$ states. Energetics - B.S.Dzhelepov & G.F.Dranitsina	171	146
Levels of even-even nuclei with $I^\pi = 1$ - B.S.Dzhelepov & L.K.Peker	179	155
On deformed excited states of ^{38}A , ^{40}A and ^{42}Sc - B.S.Dzhelepov & L.K.Peker	181	157
Gamma radiation of ^{239}Pu in the 300 to 450 keV region - V.V. Berdikov, A.S.Krivokhvatskii, N.B.Strokan & A.Kh.Khusianov	185	161

** See Translation Editor's Note on the second title page.

Translated in 1968 by
Columbia Technical Translations,
570 Vermont Avenue, White Plains, N.Y. 10606

- 173 -

Bulletin of the Academy of Sciences of the USSR - Physical Series
Vol. 31, No. 2 - February 1967

Table of Contents

Page
Orig. Trans.

Transactions of the Sixteenth Annual Conference on Nuclear Spectroscopy
and Nuclear Structure
(Concluded from Vol. 30, Nos. 3, 7, 8 & 12 and Vol. 31, No. 1)

Constants characterizing the properties of ^{169}Tm - B.S.Dzhelepov & G.F.Dranitsyna	190	169
Elastic and inelastic scattering of protons on ^{148}Sm , ^{154}Sm and ^{174}Yb - A.B.Kurepin, B.Madsen & B.Elbe	195	174
Coincidences of conversion electrons in the decay of ^{165}Tm - B.S.Dzhelepov, P.A.Tishkin & I.A.Shishelov	205	184
Isospin dependence of the nuclear potential from data on total neutron cross sections of isotopes - Yu.V.Dukarevich, A.N.Dyumin & D.M.Kaminker	217	197
Resonance parameters in the case of a potential with a strongly diffused boundary - V.A.Sergeev	229	210
Nonradiative nucleon transitions in the process of nuclear fission - P.A.Cherdantsev & V.E.Marshalkin	234	215
The problem of two "extra" nucleons as a special case of the three-body problem - V.A.Zhmailo, S.N.Gornatko & S.V.Zhikhareva	238	220
A slow-fast coincidence circuit for measuring angular correlations - G.A.Kosinov, Yu.A.Kuyun & O.F.Nemets	245	228
Characteristics of varying field magnetic spectrometers - N.I.Tarantin	247	230
Use of a germanium counter to detect gamma rays from inelastic neutron scattering - R.M.Musaelyan & V.I.Popov	252	235
Concerning defects in silicon p-i-n detectors - L.G.Yuskeselieva	255	238
Apparatus for studying the stripping reaction with polarized deuterons - L.S.Saltykov	260	244
Concerning the background of accidental coincidences in correlation measurements with a cyclotron - E.A.Galkin, G.A.Kosinov, Yu.A.Kuyun, I.G.Lagutin, O.F.Nemets, M.V.Sokolov & B.G.Struzhko	264	248
Experimental investigation of resonance scattering of 1-2 MeV neutrons on iron nuclei - A.G.Guseinov, V.V.Orlov, V.I.Popov, A.P.Suvorov & V.I.Trykova	267	251
Investigation of the radiation from the iridium fraction from proton bombarded gold - G.I.Sychikov, V.R.Burmistrov, I.S.Vodolashskaya, O.D.Kovrigin & A.F.Novogorodov	269	253
Investigation by the e- γ coincidence method of the levels in ^{150}Sm excited in the (n, γ) reaction - L.I.Govor & V.A.Ivanov	277	261
Beta radiations from ^{38}K , ^{38}mK and ^{52}V and the gamma radiation emitted incident to alpha-particle bombardment of ^{197}Au - S.S.Vasil'ev, E.T.George & L.Ya.Shavtvalov	284	268
Quadrupole moments of deformed nuclei - E.E.Berlovich & Yu.N.Novikov	287	271
Fluctuation analysis of the excitation functions for the (p,p') and (p, α) reactions on Al^{27} at a proton energy of 6.4 MeV - S.S.Vasil'ev, T.N.Mikhaleva & D.L.Chuprunov	295	280

(Contd)

Available From Columbia Tech. Tr.

- 342 -

On enhancing the accuracy of phase analysis of elastic n-d scattering - S.A.Myachkova & V.N.Efimov	307	291
Possibility of the (n, α) reaction in the range of thermal neutron or - A.F.Dadakina	310	294
Statistical non-statistical regularities in fragment production by high-energy particles - O.V.Lozhkin & Yu.P.Yakovlev	315	299
Measurement of the scattering asymmetry of the protons from the $^9\text{Be}(d,p)^{10}\text{Be}$ reaction induced by polarized deuterons - L.S.Saltykov	323	307
Inelastic scattering of neutrons on carbon, aluminum, iron and bismuth nuclei - D.L.Broder, A.G.Dovbenko, V.E.Kolesov, A.I.Lashuk & I.P.Sadokhin	327	311
Investigation of the $^9\text{Be} + t \rightarrow n + t + ^8\text{Be}$ reaction - V.I.Serov, S.N. Abramovich, V.A.Pereshivkin & L.A.Morkin	333	317
Photoneutron cross sections of Al, S, Ta and Bi - G.P.Antropov, I.E. Mitrofanov & V.S.Russkikh	336	320
Small energy shifts of x and gamma lines and selection of wavelength standards in the x-ray and gamma-ray range - O.I.Sumbaev	343	328
Measurements of the neutron cross sections of tritium in the 0.007 to 5 eV energy region - V.P.Vertebnyi, M.F.Vlasov, A.L.Kirilyuk, V.V.Koloty, M.V.Pasechnik & V.A.Stepanenko	349	334
Measurements of the cross sections for scattering of thermal and epithermal neutrons on erbium isotopes - V.P.Vertebnyi, V.V. Koloty & Zh.I.Pisanko	353	338

Translated in 1968 by
Columbia Technical Translations
5 Vermont Ave., White Plains, N.Y. 10606

- 175 -

Following is a complete translation of the Russian-language periodical Izvestiya Akademii Nauk SSSR, Tekhnicheskaya Kibernetika (News of the Academy of Sciences USSR, Technical Cybernetics), No. 5, Moscow, September-October 1967, pages 1-208. Authors' names and original source pages accompany each article.

CONTENTS

	<u>Page</u>	
	Source	Report
Cybernetics and Technical Progress, (B. N. Petrov).....	3	1
<u>Control Problems and the Investigation of Operations</u>		
The Theory of Optimal Control Systems, (N. N. Krasovskiy, et al.)	14	15
Synthesis of Linear Forecasting Systems with respect to Complex Statistical Quality Criteria. I, (D. B. Yudin)	28	33
Control Problems in Mathematical Economics Models, (G. S. Pospelov, et al.)	40	50

Available from JPRS 44114

(Contd)

	<u>Page</u>
	Source Report
The Fokker-Planck-Kolmogorov Equation and Synthesis of Relay Control Systems (A. A. Krasovskiy)	54 69
Extremal Problems of Information Theory and Dynamic Programming, (R. L. Stratonovich)	63 82
Recurrent Self-Training Algorithms, (Ya. Z. Tsypkin, et al.)	78 103
<u>Queueing Systems and Reliability</u>	
Some Problems in Queueing Theory, (B. V. Gnedenko, et al.)	88 118
A Controlled Queueing System, (O. I. Bronshiteyn, et al., ...	101 135
Servicing two Flows in a Single Queue System with a Limited Number of Places for Waiting and Absolute Priority, (G. P. Basharin)	106 142
Evaluating the Reliability of Operation of a Hierarchical Branched System with Nonequivalent Actuating Elements, (I. A. Ushakov)	117 157
<u>Automata</u>	
A Procedure for Probability Evaluation of the Reliability of Hypotheses in Complex Diagnostic Problems, (Yu. M. Gorskiy, et al.)	122 164
Classification of Structures of Algorithms Executed on Computer Systems, (D. A. Pospelov)	128 174
Geometric Pattern Recognition Algorithms, (I. B. Sirodsha)	136 184
Simple Logical Neuron Systems and an Example of a Classifier, (D. I. Kirvelis, et al.)	145 200

Available from JPRS 44114

(Contd)

CONTENTS (continued)

	<u>Page</u>	
	Source	Report
<u>Automatic Control</u>		
Self-adjusting Systems in Automatic Control, (V. Yu. Rutkovskiy)	151	209
Synthesis and Analysis of Nonlinear Automatic Systems by the Method of Motion Division, (Ye. I. Gerasimchenko)	164	227
Separation of a Controllable Process with respect to Frequencies during Approximate Investigation of Nonlinear Systems, (Ye. P. Popov)	181	251
Special Features of Behavior of Control Systems with Sharply Different Rates of the Motion Components, (B. V. Viktorov).	190	264
The Problem of Synthesis of Autonomic Controls. II, (T. A. Letova)	196	274

Available from JPRS 44114

- USSR -

Following is a complete translation (with the exception of one article) of the Russian-language periodical Me-teorologiya i Gidrologiya (English version above), No 11, Moscow, Hydrometeorological Publishing House, November 1967, pages 3-120. Author's name and original source page accompany each article.

	CONTENTS	Page	Source Report
	Fifty Years of Hydrometeorological Service USSR	3	1
	Twenty-Five Years of the Central Aerological Observatory	13	16
	Variations of Climate	18	24
	Inverse Problems of Satellite Meteorology	28	39
	Physico-Statistical Weather Forecasting Methods and Possibility of Their Adoption	39	57
	Meteorological Problems of Ensuring Air Purity	50	72
	Study of Mud Flows and Snow Avalanches	63	91
	Method of Forecasting Sea Floods in Lenin- grad on the Basis of Numerical Integration of Shallow Water Equations	77	102
	The Experiment of Using Natural Orthogonal Functions as the Basis for the Numerical Representation of Fields of Pack Ice and the Forecast of Its Redistribution	79	114
		(Contd)	

Available from JPRS 44153

	Source	Page Report
Course of Accumulation and Melting of Ice Under the Canopy of Swampy Forests of the Northern Taiga Subzone	86	123
Fifty Years of Research in the Field of Agricultural Meteorology in the Far East	92	133
The State and Prospects of Development of the Methods of Aerial Observation in the Ocean	97	143
Ocean-Going Hydrometeorological Ships. The Scientific-Research Ship "Professor Vize"	102	153
Book Reviews and Bibliography		
G. K. Sulakvelidze. Results of the Work of the Caucasus Mail Control Expedition of 1965	104	156
New Books	106	161
Literature on Meteorology and Hydrology for 1966-1967	107	164
Current Events		
Anniversary Sessions	112	177
Anniversary Exposition	114	182
In the Hydrometeorological Service Institutions	115	184
One Orbit of the Kosmos-144 Satellite	117	187
Antarctic Diary V	117	190
At the World Meteorological Organization	119	195
The International Hydrologic Decade	120	197

Available from JPRS 44153

Table of Contents

	No. 1	Page
F.G. Krotkov. On the Eve of the Anniversary		1
Yu.G. Fel'dman. The Experimental Determination of the Maximum Permissible One-Time Concentration of Diketene in the Atmosphere		9
V.G. Lenchenko. The Determination of the Maximum Permissible Concentration of Tellurium in Bodies of Water		15
T.P. Ivanova. The Maximum Permissible Concentration of Nitraphen in the Air of the Working Zone		20
A.K. Monkevich. Occupational Hygiene and the Production of Acetylene by the Electrocracking of Natural Gas		26
I.V. Roshchin. The Effect on the Organism of the Aerosol Liberated by the Bessemer Process		31
O.F. Maksimova. Body Function in Workers at Thermal Power Plants		36
G.I. Lyashok. Changes in Certain Physiological Functions in Converter Shop Operators During Different Shifts		42
S.M. Gorodinskii, S.V. Levinskii, and V.L. Shcherbakov The Maximum Permissible Concentrations of Various Harmful Substances Inhaled in Gas Mixtures When Using a Closed-Circuit Respiratory Apparatus		48
V.Z. Martynyuk and M.I. Gzhegotskii. The Toxicity of Sodium Trichloroacetate, an Organochlorine Herbicide		55
L.L. Kovaleva. The Effect of Industrial Noise on the Auditory Analyzer in Young Workers		59

(Contd)

Available from JPRS 04153

	Page
E.Kh. Gol'dberg. The Determination of Low Concentrations of Carbon Dioxide in the Air by Means of an FEK-N-54 Photo-electrocolorimeter	108
I.A. Netyl'kin. The Automatic Dosing of Chlorine Solution for the Purification of Sewage	110
V.I. Petrov. A Sanitary Assessment of the Method of Planned Garbage Removal Direct from Flats	112

COMMUNICATIONS IN BRIEF

V.L. Matasov, V.Ya. Antysheva, and E.P. Doskina. The Effect of Damming of the Volga on the Quality of the Water in the Volgograd Area	117
V.V. Tsapko, G.I. Panasenkov, G.P. Chernina, and R.K. Vyrvich. A Sanitary Assessment of Some New Materials Used in the Construction of Waterworks	120
Z.M. Evenshtein. The Oligodynamic Effect of Aluminium in Water	123
E.M. Shtarkas, I.P. Slavina, L.V. Rozentalene, and R.S. Karmazinene. The Effect of Synthetic Detergents on the Depth of Penetration of Bacteria During the Filtration of Water Through the Soil	126
N.F. Borisenko. Problems of Occupational Hygiene in Relation to Seed Treatment	129
M.P. Kirpichev, A. Shondoli, and L.G. Popova. The Optimum Color and Contrast for the Walls, Blackboard and Chalk in Classrooms	131
N.P. Prokop'ev. Skin Temperature in Children as a Function of Relative Humidity Under Comfortable Temperature Conditions	134

CONGRESSES • MEETINGS • CONFERENCES • SCIENTIFIC SOCIETIES

Yu.M. Borshchevskii and A.D. Frolova. Conference of Graduate Students and Junior Scientific Associates	137
--	-----

(Contd.)

Available from JPRS 44153

	Page
B.D. Petrov. A New Era in Social Medicine	64
L.G. Lekarev. Some Urgent Tasks and Methodological Aspects of Sociomedical Investigations	69

METHODS OF INVESTIGATION

T.B. Nikonorova. The Determination of Isopropylbenzene in the Air in the Presence of Toluene, Benzene and Isopropylbenzene- Hydroperoxide	74
V.Ya. Yanaeva, S.I. Nikittsev, I.G. Kharitonova, and M.M. Buzlanova. The Rapid Determination of Carbon in Industrial Chemical Sewage	76
S.I. Burykina. The Rapid Determination of Copper in Biological Materials	79
S.P. Raikhman and K.A. Rapoport. Device for the Attachment of a Set of Transducers to Human Skin for Use in Occupational Hygiene Investigations	81
N.A. Krylova. The Determination of α -Methylstyrene by Infrared Spectroscopy	84

REVIEWS

N.E. Chupeev and A.B. Dukenbaeva. The Use of Neutron Activation Analysis in Medical Research	87
A.I. Shtenberg and M.N. Rybakova. The Effect of Certain Pesticides on the Endocrine System	94

ABROAD

Z. Labounková and Z. Hořálek. An Apparatus for the Exposure of Small Laboratory Animals to Low Concentrations of Sulfur Dioxide	101
---	-----

(Contd)

Available from JPRS 44153

	Page
K. A. Kamenkov. Work of the Section of Social Medicine and Medical Statistics of the Leningrad Branch of the All-Russian Scientific Society of Hygienists and Sanitary Physicians in 1965 . . .	138
G. Z. Pitskhelauri. Some Sociomedical Aspects of Longevity and Old Age (Based on Material Presented at the First Transcaucasian Conference of Gerontologists and Geriatricians)	140

ANNIVERSARIES

Z. D. Gorkin's 70th Birthday	143
--	-----

BOOK REVIEWS

B. D. Petrov. Medicine Among the First Pioneers of the Russian North.— N. A. Bogoyavlenskii	145
N. Bobrov et al. An Introduction to Geohygiene. — N. V. Lazarev . . .	147
O. V. Perov. An Introduction to Geohygiene. — N. V. Lazarev	151
K. V. Beryushev. An Introduction to Geohygiene. — N. V. Lazarev . . .	153
G. Kh. Shakhbazyan, S. S. Poznanskii, and V. E. Balashov. An Introduction to Geohygiene. — N. V. Lazarev	154

No. 2

I. S. Gusev. A Comparison of the Effects of Low Concentrations of Benzene, Toluene and Xylene	159
V. P. Kochkin. The Maximum Permissible Concentration of Dalapon in Water Bodies	164
S. V. Nagornyi. The Maximum Permissible Concentrations of Sodium Methylthiocarbamate (Carbathion) and Ammonium Dimethylthiocarbamate in Water Bodies	169
V. K. Dobroserdov. The Effect on Workers of Low Ultrasonic and High Sonic Vibrations	176

(Contd)

Available from JPRS 44153

	Page
K. V. Fokina. The Functional State of the Olfactory and Vestibular Analyzers on Exposure to the Chlorine Derivatives of Methane	182
R. A. Ryazanova. The Effect of the Toxic Chemicals Ziram and Zineb on Reproductive Function in Experimental Animals	187
M. V. Antropova, N. I. Venevtseva, N. V. Rakhalskaya, and G. P. Salnikova. The Phagocytic Activity of the Leucocytes in Schoolchildren Aged 7 to 19	193
P. N. Yagovoi. The Interceptive Capacity of the Foliage of Trees and Shrubs with Regard to Global Radioactive Fallout	195

ON THE EVE OF THE 50th ANNIVERSARY OF THE OCTOBER REVOLUTION

E. L. Norkin. Half a Century of Medical Statistics in the Soviet Union	202
Ya. M. Grushko. Public Health Research in Irkutsk during the Fifty Years, 1917-1967	207

METHODS OF INVESTIGATION

T. L. Shkorbatova, and L. I. Ryzhova. The Photometric Determination of M-Toluyene-Diamine in Sewage	211
N. A. Polykovskaya. The Colorimetric Determination of Tungsten in Natural Waters and in Sewage	215
Yu. D. Zhilov. The Use of a Ring Chart to Assess the State of the Visual Analyzer in Children and Adolescents	218
S. M. Gorodinskii, L. S. Es'kova-Soskovets, A. F. Kobylkin, A. I. Klimova, M. I. Rokhlin, E. A. Fishevskaya, V. A. Cherebnichenko, and V. L. Shcherbakov. A Method of Investigating the Efficiency of Means for Individual Protection Against Radioactive Aerosols	223

(Contd.)

Available from JPRS 44155

PUBLIC HEALTH ADMINISTRATION AND STATISTICS
TRAINING OF PUBLIC HEALTH PERSONNEL

	Page
O.M. Tamm, R.V. Silla, and Kh.Ya. Yanes. The Work of the Sanitary and Epidemiological Services in the Estonian SSR	228
R.L. Tagamlitskaya. The Organization and Methods of Work at the Laboratory of a Municipal Sanitary-Epidemiological Center	232
A.P. Mukhin. Sixty Years of the Department of Hygiene of the Leningrad Post-Graduate Medical Institute	235

ABROAD

N.F. Izmerov. Some Comments on the 1965-66 Issues of the "Journal of the Air Pollution Control Association"	238
E. Kersten. The Instruction of Apprentices in Deep-Sea Fishing	243
L. Grigorov. The 85th Anniversary of the Founding of the Bulgarian Institute of Hygiene	246

DISCUSSIONS AND READERS' COMMENTS

A.P. Krupina. The Use of Enterococci as Sanitary Indicators For Food Products	249
A.M. Bushueva, T.T. Vasilenko, O.P. Lazarev, and A.I. Tarasenko. Some Comments on the Paper "An Assessment of the Results of the Bacteriological Investigation of Washings"	255
A Letter to the Editors	256

(Contd.)

Available from JPRS 44153

FIELD REPORTS

	Page
V.D. Perelatorov, L.V. Akhlyustina, V.D. Budarina, and R.I. Demin. The Hygienic Assessment of Milk from Cows Treated with Chlorophos Solution	257
L.N. Gavrilov, I.P. Stolyarova, M.E. Milovskaya, and P.I. Savinskaya. The Efficiency of Ceramic Dosing Cartridges for the Chlorination of Water, Designed by the Vyazniki Central Disinfection Research Institute	260
O.I. Yurasova and Yu.F. Pavlov. The Production of Radioactive Waste by a Powerful Gamma-Unit	265

COMMUNICATIONS IN BRIEF

V.Z. Martynyuk and M.I. Gzhegorskii. The Content of Toxic Chemicals in Water and Soil Treated with Organochlorine Herbicides	268
E.V. Osmolovskaya. The Content of Molybdenum in the Drinking Water in the Tomsk Region	271
A.G. Pozdnyakov. The Determination of the Maximum Permissible Content of Tetrahydrofuryl Alcohol in Water Bodies	273
V.M. Nizhegorodov and I.T. Kalinin. The Effect of Prolonged Exposure to Low Ammonia Concentrations on the Content of Vitamins A, B ₁ , B ₂ , PP and Ascorbic Acid in Animals	277
S.Kh. Nikolov, V.F. Rukavtsova, and N.N. Stifatova. Changes in Certain Physicochemical Properties of the Blood Proteins in Workers Operating Concrete Vibrators	280
V.G. Shkavro. Graphite Dust in Ferrous Metallurgy	283
G.P. Arkhipova. The Physical Development of Children and Adolescents Belonging to Minority Peoples on the Island of Sakhalin	285
B.S. Volkov and L.P. Safronov. The Effect on the Functional State of Fourth-Grade Schoolchildren of Being Taught by a Single Teacher or by Three Teachers	288

(Contd)

Available from JPRS 44153

CONGRESSES · MEETINGS · CONFERENCES · SCIENTIFIC SOCIETIES

	Page
G.N. Petrov. The 20th Hydrochemical Conference	292
E.N. Lenskaya. A Scientific Session on Hygiene and Occupational Pathology in the Saratov Chemical Industry	298
Ya.M. Grushko. A Meeting on the Journal "Hygiene and Sanitation"	299
S.V. Miller. Readers' Conference on the Work of the Journal "Hygiene and Sanitation"	300
Z.K. Mogilevchik. The Work of the Journal "Hygiene and Sanitation"	302

ANNIVERSARIES

Professor S.N. Cherkinskii's 70th Birthday	303
--	-----

BOOK REVIEWS

Yu.D. Gubernskii. Biometeorology. — S. Tromp	306
Z.G. Frenkel' and T.S. Soboleva. The World of Socialism in Facts and Figures, 1964. A reference book.	307

OBITUARIES

In Memoriam: G.D. Barkov	309
------------------------------------	-----

CURRENT EVENTS AND INFORMATION	311
--	-----

(Contd)

Available from JPLS 44153

V.G. Koptyaev. Experimental Determination of the Maximum Permissible Concentration of Dimethyl Sulfide in Water Bodies	315
G.I. Murav'eva and I. A. Nerush. The Insolation of Buildings in the Kola Peninsula	320
G.V. Aronova, B.T. Velichkovskii, B.A. Katsnel'son, G.V. Belobragina, P.S. Starkov, and L.V. Bezzabotnova. The Role of the Silanol Groups on a Hydrated Silica Surface in the Pathogenesis of Silicosis (An Experimental Investigation)	326
A.M. Dzhezhev. Some Questions of Occupational Hygiene in the Die-Casting of Plastics	334
V.I. Makartsev. ECG Changes during Prolonged Physical Work while Inhaling Gas Mixtures with Different Contents of Oxygen . . .	339
P.N. Kurpita. The Thermoinsulating Properties of Cotton and Paper Wadding in Garments as Protection from the Wind.	343
M.F. Savchenkov. The Reaction of Animals of Different Ages to the Intragastric Administration of Certain Toxic Substances	349
V.P. Shabalov. The Acclimatization of Adolescents to Heat at Work	354
O.M. Belova, I.K. Dibobes, and Z.V. Dubrovina. Differences Between the Strontium-90 Content of Raw and of Heat-Processed Food Products	359

ON THE EVE OF THE 50th ANNIVERSARY OF THE OCTOBER REVOLUTION

G.Kh. Shakhbazyan and F.M. Shleifman. The Development of Research into the Industrial Microclimate in the USSR	363
G.P. Zarubin and A.I. Nesterenko. Some New Documents Concerning Lenin's Interest in Public Health	368
I.I. Belyaev. Public Health Measures in Nizhni Havgorod [Gorki] Under the Soviet Government	372

(Contd)

Available from JPRS M153

LIJEČNIKI VJESNIK
Vol 89, No 6, 1967

TABLE OF CONTENTS

	Page
<i>S. Knežević:</i>	
Significance and Role of the Medical Association of Croatia in the Future Development of Yugoslav Medicine	1
<i>N. Carić, B. Tompak and I. Vodopija:</i>	
Ice Cream Sampling in Zagreb in 1966	16
<i>S. Krstulović:</i>	
Allergic Recurrent Palpebral Edema in Children with Eosinophilic Meningitis	22
<i>Dj. Bujanj, R. Ivančić and M. Juršić:</i>	
Primary Aldosteronism	28
<i>T. Šik-Oberhofer, I. Babić and G. Vlatković:</i>	
Our Experiences in Treating Infections of the Urinary Tract in Children with Penbritin	35
<i>S. Slijepčević and J. Kučić:</i>	
Nausea and Vomiting after Anesthesia	39
<i>V. Oberiter:</i>	
Urinary Tract Infection	43
<i>V. Friščić:</i>	
Linguistic Construction in Croatian Medical Terminology	47

Available From CFSTI TT 67-58020-6

CONTENTS

PHYSICS

- B. Bończak, J. Gawin, J. Hibner—Determination of Radial Distribution of Muons in Extensive γ Showers at Distances Close to the Axis 1

CHEMISTRY

- J. Sobkowski, Z. Stuglik, S. Minc—Kinetics of the Reaction Between Uranium Oxide (U_3O_8) and Iron(III) Ions in Sulfuric Acid 8

LETTERS TO THE EDITOR

- M. Zieliński—Tritium Isotope Effects in the Oxidation of Hydrogen and Methane. Part I. Tritium Isotope Effect in the Oxidation of Single-Labeled Methane 16

ENGINEERING AND APPARATUSES

- T. Rzymkowski, R. Trechciński—Some Problems Concerning the Theory of Errors in Counting Circuits (Pulse Counters) 19
R. Szepke—Angular Beta-Ray Back-Scattering 28
J. Madejski—A Simplified Model of Boiling During a Two-Phase Slug Flow in a Vertical Tube 33
S. Pachala, W. Stefański—Transistor Linear Gate 65

Available From AEC-tr-6657, 6658

CONTENTS

	Page
A. Jakubowski: Radiologic changes in the cranium in acute leukemia in children	1
M. Konick, A. Ziemiański, B. Łukaszewski: Correlation of the radiologic picture with biopsy findings in some generalized osteopathies	11
Z. Boroń, J. Wrzask: Ollier's disease	20
E. Prokop: Calcification of the intervertebral disk in a child	25
H. Duchowska, A. Krzeska, H. Urbanikowa: Results of follow-up examinations of children recovered from staphylococcal pneumonia	29
L. Pawlicka, W. Sitkowski: Tumors of the thymus	37
L. Pawlicka, J. Michałowski, C. Turski: Lipoma of the mediastinum	47
B. Benendo-Kapuścińska: Diagnostic pneumomediastinography in cases of myasthenia gravis	51
K. Pietroń: The radiologic picture of gastric and duodenal ulcer in children	60
Z. Iwiński: Accuracy of radiologic diagnosis in cases of massive hemorrhage from the upper part of the gastrointestinal tract caused by ulcer	73
E. Prokop: An evaluation of oral cholecystography	77
R. Kowalski: The radiologic picture of calcified guinea worms (<i>Dracunculus medinensis</i>)	81
A. Kulicz, B. Romanowski: A rare radiologic appearance of a foreign body left in the abdominal cavity during operation	89
W. Ciechociński: An intravitaly diagnosed case of simultaneous and independent carcinoma and ulcer of the stomach	92
Z. Milewicz: The roentgenographic picture of various cystic dilatations of the openings of the ureters into the urinary bladder	95
Z. Boroń, J. Zagalski, P. Kucowicz: Evaluation of miction cystourethrography in the diagnosis of diseases of the lower urinary tract in children	102
A. Mikołajków, P. Czerniak: Tridirectional scintigraphy of the liver using ¹⁹⁸ Au	112
J. Borejko: Radiotherapy of diseases of the reticuloendothelial system	125
J. Kukolewska-Machnicka: Postradiation lesions in the lungs in the course of treatment of mammary gland tumors	136
W. Nowakowski, M. Lachowski, J. Mastalerski: Regression of radiologic signs of generalized reticulosarcoma of the bones under the influence of treatment with Endoxan	144
N. Hartel-Ulkowska, M. Ulkowski: The role of radiotherapy in the treatment of cerebellar and cerebral hemangioblastoma	149
A. Jeleniewska-Rudyk: Treatment of vertebral hemangiomas	155
W. Zawadowski: Luigi Turano: Trattato de Radiodiagnostica. Volume primo. Tomo primo, secondo. Utet, Torino, Italia	161

Available From CPSTI IT 67-56003-1

CONTENTS

Z. Boroń: The Pierre-Robin syndrome	307
J. Walecki, W. Zurkówna: A case of asymptomatic calcification of an intervertebral disk in a child	310
K. Ossowska, J. Nowicki, L. Pawlicka: Trauma of the bronchi	315
Z. Bem: Calcification of pulmonary tissue in generalized scleroderma	324
J. Borowicz, S. Rudnicki: Extensive micronodular ossifications in the lungs in the course of a mitro-aortal cardiac defect	328
O. Kapuściński: The radiologic picture of transposition of the great blood vessels	333
B. Benendo-Kapuścińska: Roentgendiagnostics of tumors of the salivary glands	345
Z. Bem, T. Mielecki: A case of hydrochloric acid corrosion of the esophagus, stomach and duodenum	354
S. Winnicki: Parietography of the stomach	359
A. Wąsowicz-Bober: An inflammatory tumor of the small intestine	365
D. Jakubowska: Chronic pyelonephritis in children. Clinical, radiologic and anatomopathologic aspects	370
D. Jakubowska: The planimetric method in the evaluation of the renal parenchyma in chronic pyelonephritis in children	377
M. Klamut: Pneumoradiography of the male gonads in the scrotum	389
A. Kapuściński: Renocystography of pyelonephritis	406
A. Marciński, A. Kaniewska, H. Radelička-Rajszyś: Two cases of ectopic ureter in children	416
W. Stoniewicz, K. Kucharczyk, K. Lerch, J. Załuska: Lymphography in secondary lymphatic edema of the lower extremities	422
J. Skołyszewski, M. Pawlicki: Irradiation of carcinoma of the pharynx by the crossed beam technique	429
W. Graban: Experimental studies on the distribution of compounds labeled with iodine in normal and hypoxic cerebral tissue	434
H. Rynkiewicz, J. Terlecki: Measurements of the lifespan of erythrocytes labeled with ⁵¹ Cr chromium in healthy persons and in patients with the hemolytic syndrome	445
W. Łobodziec, B. Lubas: Exposure of staff to X-radiation during examination of patients by the methods of contrast enema and bronchography	453

Available From CFSTI TT 67-56003-3

PROBLEMS OF INFORMATION TRANSMISSION

Vol. III, No. 4, 1967

- USSR -

Following is a complete translation of the Russian-language periodical Problemy Peredachi Informatsii (English version above), Vol. III, No. 4, October-December 1967, pages 3-101. Author's name and original source page accompany each article.

CONTENTS

	<u>Page</u>	
	Source	Report
On the Fiftieth Anniversary of the Great October Socialist Revolution.....	3	3
Sequential Decoding in a Continuous Channel.....	5	5
The Shannon Theorem for Channels with Synchronization Errors.....	18	25
On Evaluating the Transmission Accuracy of Discrete Communications Using Channels With Bursts of Errors or Erasures.....	37	62
On Power Control in a Group of Radio Stations.....	49	81
Probability Limits and Number of Corrected Errors in Non-Block Codes.....	58	98
Arithmetical Codes with Correction of Recurring Errors.....	72	120
		(Contd)

Available From JPRS 44644

PROBLEMY PEREDACHI INFORMATSIY
Vol 3, No 4, 1967

CONTENTS (Continued):

	<u>Page</u>	
	Source	Report
On Games of Automata, Possessing a Different Level of Activity.....	81	136
The Significance of Methods of Formal Study of Historical Writings.....	89	149
On the Quantum Distribution of the Envelope of a Quasi-Harmonic Signal Against a Background of Gaussian Noise.....	98	169
On the Cycles of an Algorithm of the Synthesis of Irreducible Polynomials in a GF(2) Field.....	100	172
Alphabetical Index, Vol. III, 1967.....	102	175

Available From JPRS 44644

TABLE OF CONTENTS

	<u>Page</u>
Nikolai Iosifovich Shapiro (On the Occasion of His Sixtieth Birthday).....	1
E. N. Kabakov, N. N. Perestoronina, V. G. Gorbunova. Bone Marrow Destruction as a Quantitative Criterion of Radiation Injury. 1. Selection of the Period for Plotting the Dose-Effect Curves.....	5
N. B. Strazhevskaya, V. A. Struchkov, G. S. Kalendo. On the Initial Damage to Nuclear Structures by Ionizing Radiation.....	13
A. R. Egiazarova, K. Sh. Nadareishvili, M. M. Zaaliashvili. Influence of Ionizing Radiation on the Properties of Monomolecular Layers of Crystalline Myosin and the Characteristics of Gel Formation of Its Solutions.....	25
Z. N. Nakhil'nitskaya. Analysis of the Phenomenon of Loss of Potassium Ions by Irradiated Cells.....	35
A. I. Nikolaev, S. M. Khalifaev, Kh. R. Mukhammadzhanov. Influence of Complex Compounds of Trace Elements on the Rate of Incorporation of Cl^{45} -Glycine into Gamma Globulin and Antibodies of Nonirradiated and Irradiated Rats.....	47
V. N. Filippova, L. I. Soldatenkova. Influence of Whole-Body X Irradiation on the Uridine Diphosphate Glucose System of Glycogen Synthesis in Bone Marrow Cells.....	50
I. V. Savitskii, N. F. Leus. Influence of X Irradiation on the Processes of Biosynthesis and Decomposition of Phosphate Esters of Vitamin B ₁	55
Z. V. Dubrovina, P. M. Malkin. On the Difference in the Parameters Characterizing the Metabolism of Radioactive and Stable Calcium after Brief Incorporation of the Radioisotope.....	62
T. V. Kazueva. Influence of Whole-Body X Irradiation on Heme Biosynthesis in Vitro by Hemolysates of Hen Erythrocytes.....	70
	(Contd)

Available From AEC-tr-6775
P911064568-V

	<u>Page</u>
St. Grigoresku, K. Nedelku, M. Néstase. On the Role of Potassium in the Radiosensitizing Effect of Riboflavin.....	74
Yu. V. Sivintsev, V. A. Kanareikin, O. M. Arutinov. Change in the Cs ¹³⁷ Concentration in Humans.....	79
I. B. Smirnova. Influence of Anoxia during and after Irradiation upon Radiation Damage to the Lymphocytes.....	86
V. V. Kholin. Significance of the Integral Absorbed Dose in Evaluating the Severity of Radiation Damage to the Organism.....	98
V. V. Kreslov, R. E. Libinon. Behavior of Neptunium-237 in the Animal Organism and Some Problems of Its Biological Effects.....	105
M. I. Ul'yanov. Hematological Changes in the Compression Phase of the Pressing Syndrome in Irradiated and Nonirradiated Animals.....	114
N. N. Petrishchev. Influence of Experimental Hypothyroidism on the Restoration of Hemopoiesis in Irradiated Rats.....	118
B. I. Lebedev. Variation of the Manifestations of the Hemorrhagic Syndrome in Dogs during Acute Radiation Disease with the Topography of Damage to the Peripheral Nervous System.....	124
S. R. Perepelkin. Changes in Conditioned Reflex Activity and Gastric Secretion during Radiation Disease.....	131
L. A. Kamalyan. Intensification of the Radio-resistance of Rabbits by Immunization with Smallpox Virus Vaccine.....	144
G. A. Shal'nova, V. F. Zhuravlev. Dynamics of Changes in the Immunological Reactivity of Dogs Injured with Tritium Oxide.....	149
Yu. M. Rukavishnikov. Mechanism of the Origin of Spontaneous and Radiation-Induced Chromosome Breakage in Mammalian Bone Marrow Cells.....	159

(Contd)

Available From AEC-tr-6775
P911064568-V

Yu. V. Korogodina, V. M. Dubrovina. Principles of the Postirradiation Death of Differentiating Nerve Cells. 2. Investigations on Newborn White Rats....	168
N. I. Bicheikina, E. F. Romantsev. Influence of Radioprotective Agents on the Respiration of Liver and Brain Mitochondria of Rabbits.....	177
O. K. Makhalova, A. S. Mozzhukhin, V. I. Bertash. Influence of Cystamine on the Changes in the White Blood Cells of Dogs after Sublethal X Irradiation..	183
É. Ya. Graevskii, Z. N. Faleeva, N. K. Flerova. Radioprotective Action of Cysteamine under the Effect of Ionizing Radiation on Loach Sperm.....	188
I. G. Akoev, M. A. Lagun, B. I. Ognev, O. F. Ziadinova. The Possible Mechanism of the Protective Effect of Radioprotective Agents.....	196
A. M. Kuzin, N. P. Korolev. Change in the Polyphenol Oxidase and Peroxidase Activity and the Hill Reaction in the Chloroplasts of Leaves after γ Irradiation.....	209
A. M. Kuzin, N. Norbaev, G. Parpieva. Formations of Quinones in Plants Having Different Radiosensitivities.....	217
N. N. Nazirov. Significance of the Conditions of Cultivation in the Radioresistance of Plants.....	222
N. V. Kulikov, N. A. Timofeeva, S. A. Lyubimova. Influence of Ionizing Radiations on the Early Stages of Development of <u>Limnaea stagnalis</u> L.....	228

Brief Communications

B. P. Ivannik, N. I. Ryabohenko. The Mechanisms of the Irradiation-Induced Degradation of DNA Macromolecules in Solution.....	237
L. V. Orlova, K. S. Trineher. Modifying Action of Serum Proteins on the Dose Dependence of Radiation Injury of Erythrocytes.....	243

(Contd)

Available From AEC-tr-6775
P911064568-V

Yu. P. Druzhinin. Seasonal Variations of the Proteolytic Activity of the Rat Liver (pH 7.4) and the Effect of Penetrating Radiation upon This Index.....	247
P. D. Gorizontov, N. V. Raeva, I. G. Akoev. Clinical Course of Recurrent Acute Radiation Disease.....	254
M. I. Ravich-Shcherbo, L. G. Prokopenko. Inclusion of the Liver in Immunogenesis during Acute Radiation Disease.....	257

Chronicle

N. N. Livshits. Problems of Radioneurology at the Third Congress on Radiation Research.....	261
--	-----

Available From AEC-tr-6775
P911064568-V

РАДИОТЕХНИКА И ЭЛЕКТРОНИКА

RADIOTEKHNIKA I ELEKTRONIKA

№ 8, 1967

NUMBER 8

1967

CONTENTS

	Page
S. A. Zhevakin and A. P. Naumov: The Index of Refraction of the Lower Atmosphere for Millimeter and Submillimeter Radio Waves. Magnetic Permeability of Molecular Oxygen	1249
V. V. Bykov and V. P. Malaychuk: Application of the Monte-Carlo Method for Investigating the Response of an AM Receiver to Signals Modulated by Fluctuations in Frequency	1253
D. Ye. Vakman: Optimum Signals which Maximize Partial Volume under an Ambiguity Surface	1260
A. G. Pavell'yev: The Heat Radiation from a Medium Bounded by a Rough Periodic Surface	1269
P. Ye. Strezh: The Incidence of Plane Waves on the Interface Between Free Space and an Inhomogeneous Isotropic Medium	1277
N. P. Kerzhentseva: The Coefficient of Reflection at a Kink of the Axis of a Multimode Waveguide	1284
A. B. Goroshchenya and P. I. Karmanov: Analysis of Superwideband Antennas	1291
A. V. Vashkovskiy and Ya. A. Monosov: Generation of Electromagnetic Radiation by Nonlinear Spin Resonance in a Ferrite	1297
N. K. Maneshin and V. N. Parygin: Frequency Conversion by Means of the Diffusion Capacity in Semiconductor Diodes	1301
G. Ya. Miyakishev: Detection of High Frequency Signals by a Virtual Cathode when the Period of the Signal is Considerably Smaller than the Time of Flight	1308
S. A. Kornilov: Secondary-Emission Electron Conductance of Gaps Between Grids ...	1317
A. I. Shtyrov and V. S. Anishchenko: Noise Figure of a TWT Operating in the Mode of Continuous and Uniform Current Intercept by the Retarding Device	1325
A. M. Fedorchenko: The Theory of Cyclotron Waves in Cold, Moving Plasma	1336
L. N. Vagin: Oxide Cathode Emission in a Low-Pressure Pulsed Discharge	1340
A. M. Tyutikov and M. N. Toyseva: On the Secondary Electron Emission of Some High Resistance Layers	1347
A. I. Gubanov and N. A. Gushchina: Analysis of p-n-p-n Structure in Stationary Mode with Bases Having Low Flow Resistances	1352
A. A. Lebedev, A. I. Uvarov and V. E. Chelnokov: The Effect of an Electric Field on the Switching Processes in p-n-p-n Structures	1358
Yu. P. Yegorov and A. S. Petrov: Axial Mode Locking in Internally Modulated Gas Lasers	1365
D. A. Aronov and Ya. P. Kotov: The Reactive Properties of Semiconductors p-n-p-n Structures at High Injection Levels	1374
BRIEF COMMUNICATIONS	
S. S. Gremyachenskiy, P. I. Yenkeyev, A. P. Molchanov and V. G. Nagnibeda: Radio Emission of Cumulus Clouds in the Tropics	1380
K. P. Kirdyachov: Fluctuations of the Atmospheric Background During Radio-Astronomical Measurements with Large Radiotelescopes at the Centimeter and Millimeter Wavelengths	1381
M. M. Volchkov: The Probability of Passage of a Code Through a Code Selector in the Presence of Fluctuations in Pulse Length and Interpulse Intervals	1384
I. A. Deryugin and V. N. Kurashov: The Optimization of a Binary System of Information Transmission in the Optical Region	1388
G. L. Suchkin: A Disk Resonator	1391
C. D. Gvozdozer: Decay of Electron Beams in Low-Voltage Arc Plasma	1395
S. V. Galaktionov and G. F. Filimonov: Suppression of Back Radiation at the Input of a TWT by Selecting Its Output Reflection Coefficient	1397

(Contd)

Available From The Institute of Electrical and Electronics Engineers

RADIOTEKHNIKA I ELEKTRONIKA

No 8, 1967

A. F. Golubentsev and L. M. Minkin: Minimization of the TWT Noise Figure for Continuous Current Settling Along the Slow-Wave System	1400
Yu. P. Voloshchenko: Contribution to the Theory of Traveling-Wave Amplifiers	1403
L. Ya. Mogilevskaya, N. Z. Shvarts and V. S. Etkin: Stability Analysis of Tunnel Diode Amplifiers	1406
L. S. Liberman and V. A. Shpirt: General Case of a Switching or a Limiting Diode in a Transmission Line	1409
Ya. A. Monosov: Self-Reduction of Gain in a Ferrite Microwave Amplifier	1412
A. E. Sakharov and V. M. Turevskiy: Quantum Paramagnetic Amplifier for the Decimeter Region	1414
V. P. Yepifanov, I. P. Mazan'ko and N. G. Yaroshenko: The Build-Up and Stability of Oscillations in a Neon-Helium Laser	1416
G. F. Yukhmanov: Transistor Pulse Generator With Delayed Feedback	1419
E. G. Melikyan: Germanium Point-Contact Diode with N-Type Negative Resistance ..	1422
B. Ch. Dyubua, L. A. Yermolayev, Ye. P. Yesanlov, I. P. Starodubov and L. P. Yakimenko: The Electron Emission of Pt-Ba, Pd-Ba, Rh-Ba and Au-Ba Alloy	1424
L. S. Gasanov: The Effect of Semiconductor Thickness on the Modulation of Surface Conductivity by an External Field	1425
ERRATA	1428

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	$\cosh^{-1}$
Arcth	$\coth^{-1}$ (ctnh^{-1})
Arsh	$\sinh^{-1}$
Arth	$\tanh^{-1}$
arccos	$\cos^{-1}$ (arc cos)
arctg	$\cot^{-1}$ (arc cot)
arcsin	$\sin^{-1}$ (arc sin)
arctg	$\tan^{-1}$ (arc tan)
ch	cosh
cosec	csc
ctg	cot (ctn)
cth	coth (ctnh)
rot	curl
sch	sech
sh	sinh
tg	tan
th	tanh

Available From the Institute of Electrical and Electronics Engineers

RADIO ENGINEERING AND ELECTRONIC PHYSICS

RADIOTEKHNIKA I ELEKTRONIKA
10 9, 1967

NUMBER 9

1967

CONTENTS

	Page
V. I. Pagurova and P. I. Kuznetsov: Distribution of Envelope Maxima of the Sum of Signal and Noise	1429
V. A. Melitskiy and S. I. Pozdnyak: Statistical Properties of the Ellipticity Coefficient and the Angle of Orientation of the Sum of the Modulated Signal and Normal Noise	1434
Yu. N. Babanov: Theory of Optimum AM Reception Against Fluctuating Noise, Assuming an Arbitrary Number of Interfering AM Signals	1442
M. A. Bykhovskiy: Noise Immunity of a Wideband Communication System Operating in the Busy Frequency Range	1451
Yu. M. Bruk: Statistical Characteristics of a Mismatched Antenna with a Parallel System of Phasing	1460
V. A. Kashin: Electromagnetic Radiation Scatter by a Perturbed Surface Composed of Semiconducting Solids	1469
A. N. Danilov and V. A. Malyshev: Effect of Self-Bias on Oscillator Characteristics of Active Nonlinear Elements	1476
V. A. Vul': Design of a Tunnel-Diode Oscillator with Hard Self-Excitation	1482
I. A. Dubrovskiy: Application of Networks in the Measurement of Some Tunnel Diode Parameters	1486
V. B. Bayburin and G. L. Sobolev: Design of Basic Electrical Parameters of Multicavity Magnetrons	1493
A. Z. Khaykov: The Theory of Electron Beam Bunching	1499
S. N. Ogorodnikov: The Theory of Steams of Identical Particles	1508
V. F. Aleksin and V. M. Fesenko: Stark Widening of Plasma Spectral Lines in Strong Electric and Magnetic Fields	1516
B. A. Tavger and V. Ya. Demikhovskiy: The Interaction of Electrons with Phonons in Thin Semiconductor Films at Low Temperatures	1522
A. Ya. Vyatskin and V. V. Trunov: The Transmission, Reflection and Absorption of Electrons in Thin Solid Films	1526
A. F. Kardo-Sysoyev and S. I. Kochergin: Theory of a Semiconductor Photoelectric Converter with Single-Line Scanning	1532
A. Yu. Leyderman and P. M. Karageorgiy-Alkalayev: Semiconducting Devices Operating at High Injection Levels	1540
BRIEF COMMUNICATIONS	
A. L. Gutman: Electromagnetic Wave Scattering by an Ellipsoid of Revolution Composed of Nonuniform Plasma	1546
R. M. Turkel'taub: The Noise Immunity of Coded Communications	1550
V. I. Anisimov: Generalized Equations of Electronic Circuits	1553
Z. K. Yankauskas: Resonant Properties of an Oscillator Circuit During Periodic Modulation of Capacitance	1555
Yu. V. Shubarin: Response of Mirrors to an Illuminating Source in the Cassegrain System	1558
V. S. Il'in and I. V. Solov: Wave Propagation in a Rectangular Waveguide Partially Filled with Anisotropic Medium	1560
V. T. Tsarenko and V. A. Dobryden: Design of a Nonlinear Microwave Power Regulator with an Inertial Attenuator	1564
P. F. Prakhin, V. V. Roshchin and R. I. Usdin: Use of the Correlation Effect of Amplifier Noise Waves	1567
G. N. Appollonov: Effect of Frequency Division in a Tunnel-Diode Oscillator Network Synchronized to High-Order Harmonics	1570
	(Contd)

Available From Institute of Electrical & Electronics Engineers

	Page
N. F. Kupchinov and V. A. Malyshev: Retardation of Electrons in a TWT	1573
L. M. Rogalya: Dependence of the Secondary Electron Emission Coefficient on the Energy of Primary Electrons	1575
V. I. Salin and L. A. Serebrov: Charging of Thin MGF ₂ Films with Electrons of Average Energy	1577
L. A. Serebrov and V. L. Shmulevich: Malter Emission of Thin MgF ₂ Films	1580
V. A. Gorokhov: Transistor Effect in Thyristors	1583
V. I. Strikha: The Efficiency of Semiconductor Microwave Diodes in the Case of Depletion of the Rectifying Contact	1586
A. K. Stolyarov: Nonreciprocal Phenomena in a Strip Line Filled with Ferrite	1589

EDITOR'S NOTE

With the exception of certain trigonometric and hyperbolic functions, Soviet mathematical symbols are the same as those encountered in the American literature. For the reader's convenience a list of such exceptions and their American equivalents is given below.

<u>Soviet Usage</u>	<u>American equivalent</u>
Arch	cosh ⁻¹
Arth	coth ⁻¹ (ctnh ⁻¹)
Arsh	sinh ⁻¹
Arth	tanh ⁻¹
arccos	cos ⁻¹ (arc cos)
arctg	cot ⁻¹ (arc cot)
arcsin	sin ⁻¹ (arc sin)
arctg	tan ⁻¹ (arc tan)
ch	cosh
cosec	csc
ctg	cot (ctn)
cth	coth (ctnh)
cot	cot
sch	sech
sh	sinh
tg	tan
th	tanh

Available From Institute of Electrical & Electronics Engineers

TABLE OF CONTENTS

	Page
BRUK Stefan: OBSERVATIONS ON SOME ASSUMPTIONS IN SUSPENDED SEDIMENT TRANSPORT KINETICS	5
MILORADOV - GLIGORIĆ Vera: SOME RESULTS OF MEASURING SEDIMENTATION ON THE RIVER VELIKA MORAVA	11
PLAMENAC Nikola: RECLAMATION OF SALINE SOILS IN THE CHÉLIFF RIVER VALLEY AND THE MACTA PLAIN -- ALGERIA	21
MILORADOV Milorad: SOME ELEMENTS FOR CALCULATING BED DEFORMATION IN SELF -- CUTTING ALLUVIAL WATER COURSES	41
A REVIEW OF THE WORK OF JAROSLAV ČERNÍ INSTITUTE FOR THE DEVELOPMENT OF WATER RESOURCES FOR THE YEAR 1966	59

Available From CFSTI TT 67-58016-1

CONTENTS

Nikola Pelev: On the Chemical Composition of the Grain of Some Maize Varieties and Hybrids — — — — —	5
Simeun Savić: A Study on the Yield Potential of Primary and Secondary Wheat Spikes	15
K. A. Alim and G. A. Fattah: The Direct Effects of Climate on Buffalo and Cattle (Body Reactions of Calves) — — — — —	23
Timotej Cobić, Sofija Vučetić, and Stevan Bačvanski: The Value of Tops and Fresh and Dry Diffuse Sugar Beet Pulp in Fattening Steers — — — — —	35
Milorad Mišković, Ivan Brand, and Milan Segedinac: Constructing Calving Sheds and Sheds for Younger and Older Calves —	41
Boško Mašić, Ljubica Zigić, Leopold Šrajber, and Dušan Petrović: A Comparative Investigation of Conformation and Some Carcass Characteristics of New Hampshire and Dominant White Cornish Chickens	46
Ljubica Zigić and Leopold Šrajber: A Comparative Investigation of the Reproduction Qualities of Turkeys in the First and Second Year of Laying — — — — —	59
Miroslav Milovankić and Radomir Vidojković: Pear Pollen Germinability in vitro at Beška (Srem Area) — — —	67
Mita Aradski: Effect of Orchard Plowing Depth on the Growth of Apple-Trees — —	75
Adam Marić, Veljko Nikolić, Rudolf Kastori, and Save Turanov: The Problem of Zinc and Iron Deficiency in Growing Apples on the Sandy Soils near Subotica and Horgoš — — — — —	85
Teodor Avramović, and Maksim Nerandžić: An Analysis of the Results of Economic Activities of Agricultural Organizations in Vojvodina — — — — —	98
Dušan Dimitrijević: Basic Cytoplasm and Nucleic Acids in the Light of Heredity — — —	111
Franc Ločnikar: The Significance and Results of the Random Sample Test — — —	123

Available From CFSTI TT 67-58007-7-8

CONTENTS

	Page
Sead Sestić and Sabina Vuksanović:	
Effect of Reduced Number of Topdressings on Wheat Yield — — —	5
Miroslava Trifunović:	
Some String Bean Varieties — — — — —	13
Branka Lazić and Dimitrije Kovačev:	
Influence of Temperature on the Biological Properties of Onion Seed —	21
Ljubica Žigić, Gmitar Veličković, Leopold Šrajber and Boško Mašić:	
Effect of Different Mixtures in the Finishing Stage of Fattening on the Improvement of Slaughter and Organoleptic Characteristics in Broiler Chickens — — — — —	29
Boško Mašić, Dušan Petrović, Leopold Šrajber and Ljubica Žigić:	
Measurement of Egg Shell Deformation and Its Relation to Weight and the Shape Index — — — — —	39
D. Hadžistević, M. Andrić and Đ. Varga:	
Effectiveness of Some Granulated Insecticides in Control of European Corn Borer — — — — —	47
Zdravko Kosovac:	
Biological and Residual Effect of Herbicides Based on Triazine and Phenoxyacetic Acid on Corn Weeds on Chernozem in Southern Bačka —	55
Borivoje Kotić, Hristina Smiljaković and Tomislav Tešić:	
Wheat Diseases and Pests in Yugoslavia — — — — —	77
Ljubo Pavičević:	
Dr. Đorđe Radić — Illustrious Figure in Our Cultural Past — — —	89
Stjepan Lukić:	
Introduction of Mechanographic Work Methods in Large Enterprises After the Example of the Osijek Industrial and Agricultural Combine	97

Available From CFSTI TT 67-58007-9

CONTENTS

	Page
Ivan Todorć:	
Sugar Beet Seedling Cutting in Seed Production	5
Dimitrije Dragović:	
Margin of Profitability in Sugar Beet Seed Production by the Two-year and the Short Method of Production	17
Josef Nečas:	
Conception of Model Organisms for Breeding of Economically Important Organisms	27
Dragutin Trajić, and Slavoljub Mitrović:	
Fattening Capacity of Cigaja Sheep and Their Crosses with the Southdown and Precose Breed	37
Vojislav Dimitrijević, Momčilo Bićanin, and Dobrivoje Pavlović:	
Effect of the Extract of Some Parenchymatous Organs and Chick Embryo on the Weight Gain of Fattening Chickens	49
Dragiša Milić, Jovan Kostić, and Pedrag Nikolić:	
Comparative Study of Preparations for the Prevention and Treatment of Baby Pig Anemia: Ferri-75 (Yugoslav) and Myofer-100 (Foreign)	53
Zdravko Kosovac:	
Biological and Residual Effect of Herbicides Based on Triazine and Phenoxy- acetic Acid on Weeds in Corn Grown on Chernozem in Southern Bačka . .	59
Zivojin Aleksić, Dragoljub Sutić, and Dobriša Aleksić:	
Pepper Wilt in Serbia	69
Josip Brčić:	
Status of Hay Crusher Development and Employment	83
Dragoslav Popović, Tomislav Jevtović and Hranislav Petrović:	
Operating Features of Foreign Viners	89
Nikola Šimunović:	
Evaluation of the Increase in Agricultural Yields in the Autonomous Pro- vince of Vojvodina as the Result of Forest Shelterbelts	99

Available From CFSTI TT 67-58007-10

CONTENTS

D. Jelenić, M. Penčić, Lj. Zarić, and B. Kerečki: Dynamics of the Content of Nitrogen Compounds in the Leaves of Native Maize Varieties at Some Stages of Development	5
I. Janovski, J. Dumanović, M. Denić, and D. Perakliev: Factors Influencing the Sensitivity of Wheat and Cotton Seeds to Ethyl- encimimine (Ei) and Ethyl Methanesulfonate (EMS)	15
L. Avramov, G. Jelenković, D. Joković, M. Jovanović and Z. Rodić: Contribution to the Study of Inheritance of Muscat Flavor in Some Grape Varieties <i>Vitis vinifera</i> L.	25
M. Bašović, H. Resulović, V. Prica, V. Radulović, M. Vlahinić, Dž. Bistić-Hajro: Excessive Drying and Wetting of Tilled Pseudogley Layer as a Factor of Disturbance of Physiological Balance in Fruit-trees	31
R. Letić: Effect of the Stage of Ripeness at the Moment of Harvesting on the Yield and Quality of Pea Seed	47
K. Sijivovački, N. Mitić, R. Markićević, and S. Dragojlović: A Study of the Effect of Different Systems of Feeding for Fattening Meat Pigs	57
V. Andrejević and Lj. Petković: Effect of Feed of Different Caloric Value on the Chemical Composition of Some Individual Groups of Muscles and the Skin of Chickens and White Rock Laying Hens	63
M. Danon and V. Lušin: Effect of Combined Powdered Preparations on the Viability of Treated and Stored Maize Seed	71
V. Kosovac: Some Observations on <i>Chloridea viriplaca</i> Hunf. in the Region of Zrenjanin	81

Available From CFSTI TT 67-58014-1

SAVREMENA POLJOPRIVREDA
Vol 15, No 2, 1967

CONTENTS

	Page
S. Stanačev:	
Activity of the Ferment Catalase, Peroxidase and Polyphenoloxidase in Five Sugar Beet Varieties — — — — —	5
S. Pelicarić, M. Radojić, M. Milić, and E. Rudić:	
Study of Invertase Activity in Fresh and Stored Sugar Beet — — —	15
M. Popović:	
Varieties, Technology, and Economics of Cucumber Production in Frames	21
Z. Milošev:	
On the Possibility of Growing Field Crops in the Novi Sad Marsh (The Plant and the First Ground Water Level) — — — — —	31
N. Mitić, A. Srećković, and Z. Gajić	
Influence of Different Levels of Feeding During Pregnancy on Weight Gain and Reproductive Ability of Sows in the First Farrowing — —	41
B. Vujić:	
Use of Vitamin Preparations in Sheep Breeding — — — — —	51
M. Zorzić:	
Effect of Paraffination on the Union and Rooting of Grafted Vine Cuttings	55
M. Milovankić:	
Germinability of Apple Pollen in vitro in the Skopje Plain — — —	63
Z. Kosovac:	
Biological and Residual Effects of Herbicides on the Basis of Triazin and Phenoxyacetic Acid on the Weed Flora in Maize on Chernozem in South Bačka — — — — —	67
M. Arsenijević, and B. Kostić:	
<i>Deriuca filum</i> (Biv. — Bern.) Cast. — a Hyperparasite of the Rust Fungus	89

Available From CFSTI TT 67-58014-2

Published by
The Iron and Steel Institute
4 Grosvenor Gardens London SW1
by arrangement with the
Department of Education and Science

Stal' is published in Russian
by Metallurgiya, Moscow

Subscription rates and general information
on inside back cover

Extracts from this publication may be
freely reproduced as long as the source is
acknowledged

Editorial
Marion E. Dodd, M.A.

Translators
A. Behr
Major J. H. Dixon
L. Herdan
Dr. S. Klemantavskii
C. I. Pedersen
R. Sewell

- Ironmaking**
449 Desulphurization of pig iron by injecting lime and other reagents
S. T. Pliskanovskii et al.
451 Automatic weight proportioning of mix components at sinter plant Rustavi works
M. V. Gegeshidze et al.
453 Sinter cooling on a pan cooler at Abagursk sinter plant E. P. Pak et al.
455 Mineral composition of fluxed sinters S. F. Akhmetov et al.
458 Temperature distribution in big-bell hopper of a blast furnace E. D. Shrepa et al.
460 Electroslag welding of stack shell of a blast furnace G. F. Rybochkin et al.
- Steelmaking**
462 New steelmaking practice for producing high grade low carbon non-aging 08Yu steel D. A. Smolyarenko et al.
466 Producing cable steel in large open-hearth furnaces G. S. Kolganov et al.
468 Effect of deoxidation by means of aluminium-containing ferro alloy on the quality of tube steel V. A. Mchedlishvili et al.
471 Applicability of a sine-wave law for movement of mould in continuous steel casting plant V. A. Kubelev
474 Equipment for measuring temperature at roots of open-hearth furnaces Yu. N. Tuluevskii et al.
476 Solidification of large ingots of rail steel A. E. Garelkina
478 Work done by members of the Technical society for ferrous metallurgy in 1966 D. A. Smolyarenko and E. Terent'ev
479 Research at works laboratories and institutes
- Electrometallurgy**
480 Reaction surface in electroslag remelting M. M. Klyuev and Yu. M. Mironov
483 Removal of non-metallic inclusions from metal during electroslag remelting G. A. Bachugov et al.
485 Effects of electromagnetic fields on thermocouple readings when metal temperature in electric furnaces is continuously recorded I. G. Fedorets et al.
- Rolling production**
486 Higher dimensional accuracy in rolling sheet on the continuous mill I. M. Meerovich et al.
492 Tension and deformation work with developing transverse deformation Yu. F. Shevakin and F. S. Seidaliev
494 Service life of rolls for cold-rolling mills and quality of thin sheet production M. A. Benyakovskii and L. I. Butyl'kina
497 Rolling stainless steels liable to increased spread P. I. Polukhin et al.
499 Box roll-pass design with two inflections A. N. Larin and S. G. Galega
501 Investigating by means of ultrasonics the rate of metal working on blooming mill D. S. Kachurin et al.
502 Use of new universal spherical shafts on rolling mills A. P. Chekmarev et al.
- Tube production**
503 Very thin spiral seam tubes welded with current at radio frequencies A. I. Tselikov et al.
506 Metal deformation in production of large diameter electric-welded tubes Yu. M. Malveev et al.
509 Research at works laboratories and institutes
- Metal working and heat treatment**
511 Effect of boron on properties of 45Kh10G14Yu2 steel R. M. Volkung et al.
514 Effects of salt additions on pickling of stainless steels in sulphuric acid A. N. Rashkevich et al.
516 Decarburization of transformer strip in through furnaces B. M. Estrin et al.
519 Heat treatment of drill pipes made from 36G2S steel B. P. Kolesnik et al.
521 Heat treatment of comb strip with application of fused salts V. M. Muratov et al.
522 Effect of certain technological factors on properties of transformer steel in coils A. I. Belyakov et al.
524 Increasing working life of sulphuric-nitric-hydrochloric acid solution A. Z. Grehenshchikova et al.
525 Research at works laboratories and institutes
- Economics and organization**
526 Scientific organization of labour at ferrous metallurgical undertakings in Sverdlovsk province A. S. Osintsev et al.
528 Improving range of rolled stock L. E. Vaisberg
532 Research at works laboratories and institutes
- Heat technology**
533 Performance of sectional reheating furnaces at Dzerzhinskii iron- and steelworks B. L. Poltavov et al.
537 Performance of continuous low-oxidation reheating furnace when fired with natural gas Yu. I. Anzenberger et al.
539 Research at works laboratories and institutes
- Small component production**
540 Producing microwire without curls V. P. Dvurfmanov

British Iron & Steel Institute

<u>Tsvetnye Metally</u> <u>Non-Ferrous Metals</u>	<u>Table of Contents</u> <u>September, 1966</u>	<u>Vol. 7, No. 9</u> <u>English Translation</u>
V. S. Protsute	CONSTRUCTING A STATISTICAL MODEL OF A GRINDING UNIT.....	1 (1)
R. Vorbanov and St. Gaidarshiev	EFFICIENT PULP AERATION IN THE FLOTATION MACHINE...	5 (6)
P. M. Solozhenkin and A. N. Zhitomirskii	APPLICATION OF MAGNETIC RADIOSPECTROSCOPY TO SOME PROBLEMS IN FLOTATION THEORY.....	9 (8)
M. L. Pevzner and O. G. Perfil'ev	USE OF NONSULFONATED COMPOUNDS IN THE FLOTATION OF UDOKANSK OXIDIZED COPPER ORES.....	11 (10)
S. V. Dudenkov and E. Sh. Shafeev	EFFECT OF FROTHER MOLECULE STRUCTURE ON AIR BUBBLE COALESCENCE.....	14 (12)
I. A. Kakovskii and S. A. Kuligin	KINETICS OF SILVER AMALGAM DISSOLUTION IN CYANIDE SOLUTIONS.....	19 (15)
M. B. Barbin	INFLUENCE OF TURPENTINE ON INCREASING THE FLOTATION RATE OF CONCENT- RATES.....	24 (20)
E. Ia. Serebrennikova, Z. F. Gul'tseva, and T. I. Mel'kas	AN EXAMINATION OF THE POSSIBILITY OF ENLARGING COPPER CINDERS AND REDUCING DUST ENTRAINMENT IN FLUID- IZED BED ROASTING.....	26 (22)
V. E. Karpov, M. P. Palyaev, and M. S. Chetvertkov	PELLETIZING AND ROASTING SUL- FIDE COPPER-NICKEL CONCENTRATE IN A MIXTURE WITH FINE ORE.....	31 (27)
N. I. Gel'perin, V. L. Pobalk, L. M. Gindin, V. G. Zamyashlaev, V. N. Zhuchkov, and A. P. Sokolov	EFFECT OF PHASE RECIRCULATION ON THE EFFICIENCY OF A BOX EXTRACTOR	37 (32)
E. Sh. Ioffe and R. A. Puchkova	REMOVING COBALT FROM NICKEL ELECTROLYTES BY EXTRACTION WITH AMIDES.....	40 (35)
V. F. Borbat, A. F. Bugueva, and P. I. Bobikov	LEAD EXTRACTION USING SOME AMIDES AND CHLORIDE SALTS HAVING QUATERNARY AMMONIUM BASES.....	43 (36)
L. I. Shvartsar, I. B. Milovanova, and T. G. Shirebokova	AUTOMATED LABORATORY UNIT FOR EXTRACTIVE REFINING OF NICKEL ELECTROLYTES.....	46 (40)
Z. L. Berlin and B. I. Golant	WASTE HEAT BOILERS WITH CIRCULATING FILLER MATERIALS.	48 (42)
A. M. Voskanyan and A. I. Balyaev	EFFECT OF VARIOUS FACTORS ON THE CONTINUOUS FLUC- TUATIONS IN THE OPERATING VOLTAGE OF INDUSTRIAL ALUMINUM ELECTROLYSIS CELLS.....	54 (46)
A. I. Lainer and Mai-Ki	DESILICIFICATION CAPACITY OF LIME IN VIEW OF DATA OBTAINED FROM THE SYSTEM $MgO-Al_2O_3-CaO-FeO-SiO_2-H_2O$	60 (52)
V. M. Movchanov and S. I. Kuznetsov	AN EXAMINATION OF THE SETTLING PROCESS FOR RED MUD IN THE ALUMINA INDUSTRY.....	67 (58)
Kh. R. Ismatov, A. A. Rakhimov, and T. P. Rasulov	USE OF PREPARATIONS E-4 AND E-6 TO PRECIPITATE RED YD.....	73 (63)
K. D. Muzhshavlev, O. A. Lebedev, N. A. Frantas'ev, G. V. Olyumin, T. S. Sheka, V. P. Sheka, and T. K. Dolgikh	DESIGN AND TESTS OF MECHANIZED "W" MEDIUM ELECTROLY- ZERS WITH OVERHEAD CURRENT SUPPLY.....	76 (65)
A. I. Atmanskii, I. F. Sukhorukov, A. M. Pavlovskii, E. F. Gulyth, O. V. Prusevich, Te. I. Khanova, N. V. Oshchepkova, and V. A. Shaposhnikova	SINTERING AND COOKING OF ELECTRODE PACKINGS DURING BAKING.....	80 (69)
O. P. Kolchin, V. V. Filipenko, E. S. Nisharadze, E. B. Abramovich, N. V. Sumarokov, and V. A. Mam'chukhin	PRODUCTION OF LOW-NITROGEN NIOBIUM CARBIDE.....	84 (72)

Available from Primary Sources

(Continued)

Table of Contents (cont.)

N. I. Anufrieva and Z. N. Ealashova CHARACTERISTICS OF PRODUCTS OBTAINED AFTER ELECTROLYTIC REFINEMENT OF CERTAIN TITANIUM WASTES.....	87 (75)
I. V. Polin, V. M. Maksimov, and V. V. Darmograi RESULTS OF DEOXIDATION TESTS ON TITANIUM.....	91 (78)
THIRTY-FIFTH ANNIVERSARY OF GIREDMET.....	95 (81)
THIRTY-FIFTH ANNIVERSARY OF THE KRASNOURAL'SK COPPER SMELTING COMBINE.....	95 (81)
A. V. Bobylev and Yu. P. Knsienko MECHANICAL PROPERTIES AND CORROSION CRACKING OF SILICON BRASSES.....	97 (82)
V. I. Bratots, L. I. Kibirova, V. Z. Zhilkin, and Yu. P. Lapchina EFFECT OF HIGH DEGREES OF DEFORMATION ON THE MECHANICAL PROPERTIES AND ELECTRIC RESISTANCE OF WIRE MADE OF NICKEL AND ITS ALLOYS.....	101 (86)
R. I. Barbanol' and M. S. Sirotinskii COOLING OF METALS AND ALLOYS DURING SUCCESSIVE QUENCH HARDENING.....	104 (89)
A. I. Khorev, S. G. Glazunov, and L. A. Grusdeva EFFECT OF LOW TEMPERATURE TREATMENT ON THE STRUCTURE AND PROPERTIES OF TITANIUM ALLOYS.....	109 (92)
A. A. Kruglykh, V. S. Pavlov, and N. D. Rybal'chenko METALLOGRAPHY OF CERIUM AND LANTHANUM.....	111 (94)
A. S. Pan'ko ELECTROLYTIC REFINEMENT OF LEAD AT THE SAN GAVINO PLANT (SARDINIA)....	114 (96)
1967 BOOKLIST OF "METALLURGIYA" PUBLISHERS.....	118 (99)

Note: Numbers in parentheses represent page numbers in Russian original.

RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR.....	Academy of Sciences, USSR.
CC CPSU.....	Central Committee, Communist Party, Soviet Union.
DAN.....	Proceedings of the Academy of Sciences.
Gintsvotmot.....	State Institute of Non-Ferrous Metals.
GIREDMET.....	State Rare Metals Scientific Research Institute.
GITTL.....	State Publishing House of Technical and Theoretical Literature.
GOST.....	All-Union Standard.
IL.....	Foreign Literature Publishing House.
Mekhanobr.....	Scientific Research Institute for Mechanical Concentration of Minerals.
OMN.....	Department of Technical Sciences.
Sovmarkhoz.....	Council of the National Economy.
Tsentr TsM.....	Central Office for Information on Non-Ferrous Metals.
W.M.....	All-Union Aluminum and Magnesium Institute.
VUZ.....	Institute of Higher Education.

Available from Primary Sources

Table of Contents

I. Z. Fisher. CURRENT ASPECTS OF THE KINETIC THEORY OF LIQUIDS. .	1
I. Z. Fisher and Yu. P. Krasnyi. VISCOSITY COEFFICIENTS NEAR THE CRITICAL STATE	8
L. I. Komarov and I. Z. Fisher. FLUCTUATIONS OF PRESSURE AND SHEARING STRESSES IN A GAS OR A LIQUID	13
L. A. Rott. CALCULATION OF AUTOCORRELATION FUNCTIONS IN THE STATISTICAL THEORY OF VISCOSITY	17
R. M. Yul'met'ev. KINETIC EQUATION FOR TIME CORRELATION FUNCTIONS	22
A. K. Abas-zade, A. A. Gylmanov, and S. K. Akhundov. REDUCED HEAT CONDUCTIVITY AS A FUNCTION OF REDUCED TEMPERATURE ALONG THE SATURATION LINE.	28
A. K. Abas-zade and K. D. Guseinov. EXPERIMENTAL INVESTIGATION OF THE DEPENDENCE OF HEAT CONDUCTIVITY OF LIQUID HYDROCARBONS ON TEMPERATURE AND PRESSURE	32
G. I. Onoprienko, P. P. Kuz'menko, and E. I. Khar'kov. DIFFUSION OF IMPURITY ATOMS IN LIQUID METALS.	37
Yu. P. Syrnikov. VISCOSITY ANOMALY OF WATER	41
V. G. Komarenko, V. G. Manzhelli, and A. V. Radtsig. TEMPERATURE DEPENDENCE OF THE DIFFUSIVITY OF METHANE IN PROPANOL	45
I. V. Matyash, V. V. Mank, M. G. Starkov, and V. G. Pitryuga. MECHANISM OF DIFFUSION OF GASES IN SIMPLE LIQUIDS	50
I. V. Matyash, V. V. Mank, A. I. Toryanik, V. G. Pitryuga, V. I. Ionov, and A. G. Anders. THE EFFECT OF ADDITIONS OF INERT GASES ON THE STRUCTURE OF SIMPLE LIQUIDS	55
D. K. Belashchenko. TRANSPORT PHENOMENA IN SYSTEMS WITH INTERMEDIATE-TYPE BOND	61
	(Contd)

Available From Israel Program for Scientific Translations

D. K. Belashchenko, I. A. Magidson, and F. L. Konopel'ko. TRANSPORT PHENOMENA IN LIQUID TI-S SEMICONDUCTORS	66
A. V. Romanova and G. M. Kuchak. ELECTRICAL CONDUCTIVITY OF INDIUM-TIN LIQUID ALLOYS AND ITS RELATION TO STRUCTURE	73
A. Z. Golik, A. K. Dorosh, A. F. Skryshevskii, and P. F. Cholpan. STRUCTURE AND VISCOSITY OF SOME ELECTROLYTE SOLUTIONS	79
I. D. Kosheleva, G. P. Roshchina, G. E. Petrenko, and I. A. Chernyavskaya. THE EFFECT OF UNIVALENT IONS ON ROTATIONAL MOBILITY OF SOLVENT MOLECULES	85
G. P. Roshchina, I. D. Kosheleva, and E. V. Konovalov. INVESTIGATION OF THE ORIENTATION RELAXATION TIMES OF VARIOUS SOLVENT MOLECULES IN THE FIELD OF ISOTROPIC IONS . .	90
G. P. Roshchina, A. S. Kaurova, and L. P. Sharapova. INVESTIGATION OF LIGHT SCATTERING IN SOLUTIONS OF LiCl IN VARIOUS SOLVENTS	94
E. N. Sinitsyn and V. P. Skripov. EXPERIMENTAL INVESTIGATION OF THE KINETICS OF BOILING OF A SUPERHEATED LIQUID . .	100
S. I. Anisimov and T. L. Perel'man. NONLINEAR EQUATION OF DIFFUSION FOR THE CRITICAL REGION	106
N. P. Kovalenko. THEORY OF DIFFUSION IN SOLUTIONS NEAR THE CRITICAL STATE	112
V. P. Skripov and Yu. D. Kolpakov. CORRELATION LENGTH AND MASS TRANSFER NEAR THE CRITICAL POINT OF A PURE SUBSTANCE	119
Yu. P. Krasnyi. HYDRODYNAMICS OF THE CRITICAL PHASE	124
V. P. Romanov and V. A. Solov'ev. EQUILIBRIUM AND NONEQUILIBRIUM COMPRESSIBILITY OF LIQUIDS	130
M. Sh. Gitterman. ISOTHERMAL DIFFUSION IN BINARY SYSTEMS . . .	136
I. R. Krichevskii, Yu. V. Tsikhanskaya, and Z. A. Polyakova. THE EFFECT OF THE CRITICAL REGION ON PHOTODISSOCIATION AND RECOMBINATION KINETICS	138
Zh. P. Naumenko, E. T. Shimanskaya, and Yu. I. Shimanskii. THE GRAVITATIONAL EFFECT IN BENZENE AND DEUTEROBENZENE NEAR THE CRITICAL POINT	144

(Contd)

Available From Israel Program for Scientific Translations

A.K. Dzhahaluddin and V.A. Zamkov. KINETICS OF NUCLEATION IN SUPERHEATED LIQUIDS STUDIED BY THE METHOD OF LIGHT SCATTERING	151
N.G. Bakshiev and I.V. Pitskaya. SPECTROSCOPIC STUDY OF RELAXATION PROPERTIES OF LIQUIDS AT TEMPERATURES BETWEEN +20 and -196 °C	157
O.F. Bezrukov and M.F. Vuks. PROTON RELAXATION IN ALCOHOLS AND THEIR SOLUTIONS	162
G.M. Drabkin, Yu.I. Neronov, and A.I. Sibilev. INVESTIGATION OF THE STRUCTURE OF AQUEOUS SOLUTIONS OF 3-METHYL-PYRIDINE BY THE SPIN-ECHO METHOD AND INFRARED SPECTROSCOPY	165
E.V. Sagitova, F.Kh. Tukhvatullin, and A.K. Atakhodzhaev. THE EFFECT OF INTERMOLECULAR INTERACTION ON THE RATE OF REORIENTATION OF MOLECULES IN A LIQUID	169
Sh.F. Faizullaev, A.K. Atakhodzhaev, and Z.Kh. Rakhimov. RATE OF REORIENTATION OF MOLECULES OF DISUBSTITUTED BENZENE DERIVATIVES.	173

Available From Israel Program for Scientific Translations

USPEKHI FIZICHESKIKH NAUK
Vol 92, Nos. 1&2, Nov-Dec 1967

CONTENTS	Page	Russian Reference
The Phase-function Method in Quantum Mechanics (T)		
..... V. V. Babikov	271	92, 3
Quasiparticles in the Theory of the Nucleus (T)		
..... A. B. Migdal	285	92, 27
Flares of Stars of the UV CETI Type (E)		
..... R. E. Gershberg	307	92, 65
Diffusion and Mobility of Ions in a Gas (T)		
..... B. M. Smirnov	313	92, 75
Excitation of Electrons in Solids by Relatively Slow Atomic Particles (E)		
..... I. A. Abroyan, M. A. Ereemeev, and N. N. Petrov	332	92, 105
Effect of Acoustic Oscillations on the Diffusion Process (E)		
..... M. E. Arkhangel'skiĭ	368	92, 181
Temperature of Neutral and Charged Particles in the Ionosphere and the Magnetosphere (Results of Measurements with Rockets and Satellites)	385	92, 207
Methodological Notes		
Demonstration of Lower-order Multiray Interference Fringes		
..... Ya. E. Amstislavskii	400	92, 345
Lecture Demonstrations with Pulsed Magnetic Fields		
..... F. Kh. Baĭbulatov	402	92, 347
Demonstration Variant of Bothe's Experiment		
..... D. I. Penner	404	92, 350
Study of the Properties of Ferromagnetic Films in a Special Physics Laboratory Course		
..... V. S. Khristosenko and A. A. Nedel'ko	405	92, 351
Personalia		
Isaak Yakovlevich Pomeranchuk		
..... V. B. Berestetskii	409	92, 355

Available from American Institute of Physics
Vol 10, No. 3, Nov-Dec 1967

Vestnik OF THE USSR ACADEMY OF SCIENCES

Vol 37, No 11, 1967

[Following is a partial translation of the Russian-language journal Vestnik Akademii Nauk SSSR (English version above), Moscow, Vol 37, No 11, November 1967, pp 5-76 and 93-127. Original-source page numbers accompany each article.]

<u>Table of Contents</u>	<u>Page</u>
GENERAL MEETING OF THE ACADEMY OF SCIENCES. JUBILEE SESSION DEDICATED TO THE FIFTIETH ANNIVERSARY OF THE GREAT OCTOBER SOCIALIST REVOLUTION (24 October 1967)	1
M. V. Keldysh. The Great October Socialist Revolution and Scientific Progress	10
A. M. Rumyantsev. The Historical Experience of the Great October	29
B. N. Petrov. Cosmic Investigations in the USSR	41
EXCURSION SESSION OF THE PRESIDIUM OF THE ACADEMY OF SCIENCES USSR IN Leningrad (6 October 1967)	52
B. P. Konstantinov. The Development of the Leningrad School of Physics	56
JUBILEE SCIENTIFIC SESSIONS	
The October and the National-Liberation Movement (International Conference in Baku). M. P. Gapochka	65
The October Revolution and the World Socialist System (Inter- national Conference in Moscow). I. P. Kachalov	70
The October and Philosophy (Session in Moscow). V. F. Syrtsov	75
The Ideas of October and the Development of the Countries of Socialism (International Symposium in Moscow). V. M. Simchura	79
The October and World Literature (Session in Moscow). Ye. F. Trushchenko	84
The October Revolution and Siberia (Conference in Novosibirsk).	87
JUBILEE PUBLICATIONS OF THE ACADEMY	
A Book on the Paths of Progress of Soviet Science. Reviewed by V. A. Boyarskiy	34
The Collections "Soviet Science and Engineering in 50 Years" (Brief annotations)	94

(Contd)

Available From JPRS 44643

CONTENTS	Page	Russian Reference
Investigation of Plasma Heating Under Conditions of Two Stream Instability in a Linear Discharge (E)	1	53, 3
..... A. P. Babichev, A. I. Karchevskiy, Yu. A. Muromkin, and E. M. Buryak		
Dynamics of the Radiation Field, Spectrum, and Coherence in a Giant Ruby-laser Pulse (E)	10	53, 16
..... V. V. Korobkin, A. M. Leontovich, M. N. Popova, and M. Ya. Shchelev		
Isomer Chemical Shifts of the Mossbauer γ Line in Isoelectronic Tin and Tellurium Compounds (E)	16	53, 23
..... V. S. Shpinel, V. A. Bryukhanov, V. Kotkhekar, and B. Z. Iofa		
Experimental Determination of the Relative Probabilities for Various Branches of K_{α}^0 Decay (E)	20	53, 29
..... L. A. Kulyukina, A. N. Mestvirishvili, D. Neagu, N. I. Petrov, V. A. Rusakov, and Wu Tsung-fan		
Polarization of Alkali Halide Crystals Under Shock Loading. I. (E)	28	53, 41
..... A. G. Ivanov, E. Z. Novitskiy, V. N. Mineev, Yu. V. Lisitsyn, Yu. N. Tyunyaev, and G. I. Bezrukov		
Some Nuclear Optical Properties of Crystals of the KDP Group (E)	33	53, 49
..... V. S. Suvorov, A. S. Sonin, and I. S. Rez		
Resonance Phenomena in Ferrite Single Crystals in the Presence of a Domain Structure (E)	38	53, 56
..... V. I. Dudkin and A. I. Phil'Shohikov		
Mössbauer Effect on Fe^{57} Nuclei in $Y_{3-x}Ca_xFe_2-xSn_xO_{12}$ Compounds (E)	44	53, 65
..... I. S. Lyubutin, E. F. Makarov, and V. A. Povitskiy		
Variation of the Electrical Resistance of Solid Mercury at Low Temperatures (E)	53	53, 79
..... B. N. Aleksandrov, O. I. Lomonos, S. V. Tsivinskiy, and N. N. Antonova		
Evidence for Radio Pulses from Extensive Air Showers at Large Zenith Angles (E)	59	53, 88
..... W. N. Charman, J. H. Fruin, J. V. Jelley, R. A. Porter, and F. G. Smith		
Shubnikov - De Haas Effect in Bismuth under a Pressure of 15 Kbar (E)	66	53, 98
..... E. S. Itskevich, and L. M. Fisher		
Electron Absorption of Longitudinal Ultrasound in tin Single Crystals of Various Purity Near the Superconductivity Transition Point (E)	71	53, 105
..... A. G. Shepelev and G. D. Filimonov		
The De Haas - Van Alphen Effect in Zinc in Pulsed Magnetic Fields. II (E)	73	53, 108
..... V. A. Venttsel', A. I. Likhter, and A. V. Rudnev		
Investigation of the Air "Spark" Produced by Focused Laser Radiation. III (E)	79	53, 116
..... V. V. Korobkin, S. L. Mandel'Shtam, P. P. Pashinin, A. V. Prokhindeev, A. M. Prokhorov, N. K. Sukhodrev, and M. Ya. Shchelev		
Investigation of the Effect of Pressures up to 30 ktm on the Critical Field of Tin and Indium at Temperatures of 0.1-4° K (E)	86	53, 124
..... I. V. Berman, N. B. Brandt, and N. I. Ginzburg		
Investigation of the Electron Energy Spectrum in Bi-Sb Alloys (E)	93	53, 134
..... N. B. Brandt, L. G. Lyubutina, and N. A. Kryukova		
Penetration of Microwaves Through a Metal at Cyclotron Resonance (E)	99	53, 142
..... V. S. Edel'Man and M. S. Khaikin		
Collective Properties of Frenkel Excitons (T)	104	53, 149
..... V. M. Granovich and B. S. Toshich		
Raman Scattering of Light and the Faraday Effect in Magnetically Ordered Dielectrics (T)	113	53, 163
..... V. S. L'Vov		
Derivation of the Chew-Low Equations and the Origin of the Cutoff Function in Static Models (T)	120	53, 176
..... V. A. Meshcheryakov		

(Contd)

Available From the American Institute of Physics
Vol 26, No 1, 1968

CONTENTS—Continued	Page	Russian Reference
Averaged Equations of a Nonstationary Resonant Medium (T)	125	53, 183
..... V. M. Arutunyan		
The Asymptotic Form of the Elastic Scattering Amplitude and the Ratio of its Real and Imaginary Parts (T)	130	53, 191
..... Yu. S. Vernov		
Quantum Mechanics of Infinite Systems and Macroscopic Evolution Equations (T)	137	53, 203
..... V. L. Berezinskiĭ		
Role of Finite Lattice Heat Capacity and Kapitza Thermal Resistance in Paramagnetic Relaxation under Phonon Superheating Conditions (T)	149	53, 222
..... V. A. Atsarkin		
Kinetic Theory of Propagation of Ultrasound in Molecular Gases in an External Station- ary Field (T)	153	53, 228
..... L. A. Maksimov and Yu. V. Mikhailova		
EMF Produced by a Shock Wave Moving in a Dielectric (T)	159	53, 237
..... Ya. B. Zel'Dovich		
Three-proton Scattering of Light in an Isotropic Medium (T)	163	53, 244
..... V. L. Strizhevskii and V. M. Klimenko		
On Neutral Lepton Currents in a New CP-odd, $ \Delta S = 1$, Superweak Interaction of Ele- mentary Particles (T)	170	53, 254
..... Ė. M. Lipmanov		
A Linear System in the Field of Thermal Forces (T)	173	53, 258
..... G. I. Salitra		
Fluctuations and Scattering of Electromagnetic Waves in Antiferromagnets (T)	179	53, 267
..... I. A. Akhiezer and Yu. L. Bolotin		
Thermodynamics of an Ideal Ferromagnetic Substance (T)	188	53, 281
..... V. G. Vaks, A. I. Larkin, and S. A. Pikin		
Plasma-phonon Magnetohydrodynamic Waves in Semimetals (T)	200	53, 300
..... I. Ya. Korenblit		
Term Splitting in the Interaction of two Identical Atoms in Different States (T)	204	53, 305
..... B. M. Smirnov		
Depolarization of Excited Atoms in a Medium (T)	210	53, 314
..... E. L. Duman, B. M. Smirnov and M. I. Chibisov		
Structure of Isobaric Analog States in Heavy Nuclei (T)	217	53, 324
..... D. F. Zaretskii and M. G. Urin		
Quasiclassical Approximation for Nonstationary Problems (T)	222	53, 331
..... V. S. Popov, V. P. Kuznetsov, and A. M. Perelomov		
Transport Phenomena in a Collisionless Plasma in a Toroidal Magnetic System (T)	233	53, 348
..... A. A. Galeev and R. Z. Sagdeev		
Contribution to the Formal Theory of Nonlinear Response (T)	241	53, 360
..... A. A. Samokhin		
Quasilinear Theory of Excitation of Electromagnetic Waves in a Semiconductor by an Electron Beam (T)	246	53, 367
..... V. L. Sizonenko and M. I. Kheifets		
Contribution to the Theory of Collective Oscillations in Polar Liquids (T)	249	53, 373
..... I. A. Akhiezer		
Effect of Electron Scattering on Giant Quantum Oscillations of Sound and Electromagnetic Waves in Metals (T)	251	53, 375
.....		
Asymptotic Behavior of Mandelstam Type Diagrams when Spins are taken into Account (T)	261	53, 389
..... G. V. Avakov		
Wave Propagation in a Random Medium. The Correlation Group Method (T)	268	53, 401
..... V. M. Finkel'berg		

Available From the American Institute of Physics
Vol 26, No 1, 1968

JOURNAL OF APPLIED CHEMISTRY of the USSR

A translation of *Zhurnal Prikladnoi Khimii*

Volume 40, Number 5

May, 1967

CONTENTS

	Engl./Russ.
Dehydration of Barium Aluminate and Silicate — P. P. Budnikov, N. V. Kulikova, and V. I. Serdyukov	911 937
Some Aspects of the Technology of Clinker Burning in a Fluidized Bed — P. P. Budnikov, Z. B. Éntin, and A. P. Belov	916 943
Interaction of γ - and β - $2\text{CaO} \cdot \text{SiO}_2$ with Aqueous Alkaline Solutions — N. I. Eremin, M. S. Durandina, and Yu. I. Pavlov	921 948
Formation of Calcium Phosphide during Reduction of Calcium Phosphate by Carbon — V. A. Ershov	925 953
Mechanism of Catalyst Formation during the Leaching Process — A. A. Presnyakov, K. T. Chernousova, T. Kabiev, A. B. Fasman, and T. T. Bocharova	929 958
Determination of the Regions of Dissolution of Nickel in Nitric Acid by the Rotating Disk Method — A. A. Ravdel' and I. G. El'kin	935 966
Iron—Chromium Oxide Catalyst Supported on Aluminosilicate for Conversion of Carbon Monoxide in a Fluidized Bed — V. N. Anokhin, V. A. Chechko, and I. P. Mukhlenov ...	941 973
Alumina—Silica Support for a Catalyst for Conversion of Carbon Monoxide with Steam in a Fluidized Bed — V. A. Chechko, V. N. Anokhin, and I. P. Mukhlenov	946 979
Some Characteristics of the Reaction of Lead Oxide with Sodium Dichromate in a Heterogeneous Medium — V. V. Verkholtantsev, R. F. Efremov, and A. A. Ravdel'	951 984
Preparation of Hydrated Nickel Sulfide in Granulated Form, and Its Ion-Exchange Properties — V. V. Vol'khin and B. I. L'vovich	955 988
Glass Formation and Certain Properties of Glasses in the Systems $\text{CaO}-\text{Ga}_2\text{O}_3-\text{SiO}_2$ and $\text{CaO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ — N. P. Danilova and S. K. Dubrovo	959 992
Electrical Conductivity of the Arsenic—Germanium—Tellurium System in the Glassy State — V. R. Panus and Z. U. Borisova	964 998
Influence of Crystallites in TiO_2 Hydrosols on the Kinetics of Thermal Hydrolysis of Titanyl Sulfate Solutions in Sulfuric Acid — Yu. Ya. Bobyrenko, Yu. D. Dolmatov, and A. I. Sheinkman	969 1003
Carbonization of Native Phosphorites by Gases Containing Carbon Monoxide — A. A. Anisoyan and I. R. Sheblo	973 1008
Oxidation of Mg and Mg—Be Alloys in Moist Air and Steam at High Temperatures — V. F. Zelenskii, I. A. Petel'guzov, and L. D. Kolomiets	978 1013
Tellurites of the Heavy Metals and Their Thermodynamic Characteristics — E. Sh. Ganelina	983 1019
Electrodeposition of Manganese from Ammoniacal Solutions — R. U. Bondar', I. V. Gamali, and V. V. Stander	988 1025
Refining of Copper with the Use of Periodic Current Reversal — A. A. Rysakov, Zh. N. Levitin, N. S. Volodin, G. V. Kitaev, K. I. Litovchenko, and V. I. Chernenko ...	993 1030

(Contd)

Available from Consultants Bureau

Electrochemical Method for Concentrating Small Amounts of Lead from Biological Materials with the Aid of Metallic Zinc — I. F. Shcherbak, P. N. Kovalenko, and K. N. Bagdasarov.	998	1036
Variations of Particle-Size Composition during Dehydration of Solutions in a Fluidized Bed — S. N. Nalimov, Yu. Ya. Kaganovich, and A. G. Zlobinskii	1004	1043
Kinetics Coefficients of Equations for Rectification Calculations — A. S. Vigdorov.	1012	1052
Condensation of Organic and Inorganic Vapors on Horizontal Tubes — V. A. Rachko.	1016	1056
Chemical Properties of Phosphites of Novolak Resins — É. E. Nifant'ev, S. G. Fedorov, and A. F. Vasil'ev	1025	1066
Integral Heats of Interaction of Cellulose with Solutions of Salts — N. E. Karasev, N. P. Dymarchuk, and K. P. Mishchenko.	1032	1074
Mechanism of the Carbon-Steam Reaction — S. D. Fedoseev	1037	1079
Some Physicochemical Properties of p-Chlorophenyl Isocyanate and 3,4-Dichlorophenyl Isocyanate — I. I. Konstantinov, E. S. Zhuravlev, and Z. G. Teplova	1042	1084
Influence of Water on the Limiting Degree of Polymerization of Cellulose — V. I. Sharkov and V. P. Levanova	1045	1088
Influence of Electrolytes and Organic Liquids on the Degree of Polymerization of Cellulose — V. I. Sharkov and V. P. Levanova.	1050	1092
Investigation of the Physicochemical and Antiseptic Properties of Beechwood Gas-Producer Settler Tar and of Its Liquid Pyrolysis Products — G. E. Shaltyko, É. S. Bezmozgin, B. E. Gurevich, and A. G. Nemchenko	1055	1097
Determination of the Exchange Capacity of Sulfonated Phenol-Formaldehyde — A. A. Vasil'ev.	1059	1101
Adsorption of Small Admixtures of Biuret from Concentrated Urea Solutions on Activated Carbon — V. I. Kucheryavii and A. A. Tupitsyna	1065	1107
Study of Heavy Fractions of Shale Tars Produced under Different Conditions — A. D. Kokurin and K. A. Galutkina.	1070	1112
Synthesis of Sorbic Acid — V. S. Markevich, M. P. Gerchuk, and S. M. Markevich	1075	1116
Catalytic Method for Preparation of Poly(isopropyl)diphenyls — E. P. Babin and A. A. Kuz'menkov.	1081	1123
BRIEF COMMUNICATIONS		
Multiple Method for High-Temperature Investigation of the Decomposition of α - UO_3 — A. F. Bessonov, V. N. Shalaginov, V. G. Vlasov, and G. A. Taksis.	1084	1128
Solubility of Nickel Nitrate in Aqueous Nitric Acid Solutions — A. A. Ravdel', I. G. El'kin, and N. V. Milovidova.	1087	1131
Quaternary Phase Diagram of Slag Portland Cement Paste — N. V. Sazonov and M. F. Chebukov	1088	1132
Acid Resistance of Glasses in the System $\text{Li}_2\text{O}-\text{Al}_2\text{O}_3-\text{SiO}_2$ — V. V. Vargin and V. É. Mishel'.	1092	1135
Study of the Nucleating Influence of Chromic Oxide on Heterogeneous Crystallization of Glasses — I. N. Yashchishin.	1094	1137
Influence of Heat Treatment on the Impact Strength, Brittleness Index, and Density of Crystalline Glass Materials — I. N. Yashchishin	1096	1139
Influence of Hydrochloric Acid Concentration on Corrosion of Steel — V. M. Chistyakov, P. V. Kupreev, F. A. Kondrar, and I. A. Smirnova	1098	1141
Electrolysis by Pulsating Current — A. M. Ozerov, N. P. Litvishko, I. N. Vavilina, P. M. Chetvertnov, and Ya. E. Zhak.	1101	1144
Electrolytic Deposition of Antimony from Aqueous Solutions — A. D. Strykas and V. V. Ostroumov	1104	1147
Higher Capacities of Anion Exchangers for Sulfuric Acid — I. V. Samborskii	1107	1150
Polytherm for the Solubilities of Various Forms of $\text{CaSO}_4 \cdot x\text{H}_2\text{O}$ in Water between 0 and 100° — A. B. Zdanovskii and F. P. Spiridonov	1109	1152
Cooling of a Fluidized Bed under Quasi-Stationary Conditions — N. I. Syromyatnikov, L. K. Vasenova, and Yu. N. Shamanikii	1112	1154

(Contd)

Available from Consultants Bureau

	Engl./Russ.
Vapor Pressure of Ethyl Alcohol at Temperatures from 4 to 46° — K. P. Mishchenko and V. V. Subbotina	1115 1156
Nuclear Magnetic Resonance Study of the Sulfate Pulp Cooking Process — V. V. Kushchenko, N. A. Karakozov, and K. P. Mishchenko.	1118 1159
Condensation of <i>o</i> -Methylstyrene with Formaldehyde in Presence of KU-2 Cation Exchange Resin — V. I. Isagulyants, M. G. Safarov, and D. L. Rakhmankulov.	1120 1190
A New Method for Preparation of Trimeric Thiocarbonyl Compounds — A. S. Atavin, A. V. Gusarov, and V. A. Trofimov.	1122 1162
Use of Infrared Spectroscopy for Study of the Crystallization of Triacetylcellulose — N. V. Mikhailova and V. N. Nikitin	1125 1165
Synthesis of Cellulose Nitroethyl Ether — M. P. Kozlov, M. V. Prokof'eva, and I. V. Katalevskaya	1128 1167
BOOK REVIEWS	
Production of Chlorine and Caustic Soda — A. L. Rotinyan	1130 1169
Science Progress. Electrochemistry. Electrodeposition of Metals and Alloys — Reviewed by A. L. Rotinyan	1132 1170
A. K. Slavyanskii. New Methods of Wood Pyrolysis — Reviewed by D. V. Zheltukhin.	1134 1171

The Russian press date (podpisano k pechatl) of this issue was 5/6/1967.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available from Consultants Bureau

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 37, No. 9, pp. 1557-1748, September, 1967)

Vol. 12, No. 9, pp. 1135-1282

March, 1968

CONTENTS

		PAGE	RUSS. PAGE
Particle Diagnostics of a Hot Plasma (Review). <u>V. V. Afrosimov and I. P. Gladkovskii</u>	(R)	1135	1557
Solution of the Generalized Stefan Problem for the Freezing of a Liquid and Related Problems in Heat Conduction, Diffusion, etc. <u>G. A. Grinberg</u>	(T)	1169	1598
Excitation of Ion Sound Waves in a Plasma in a Strong Electric Field. <u>A. A. Zaitsev, B. Milich, A. A. Rukhadze, and B. N. Shvilkin</u>	(T/E)	1175	1607
Self-Similar Three-Dimensional Boundary Layers in a Transverse Magnetic Field. <u>Yu. E. Karyakin</u>	(T)	1182	1617
Nonlinear Interaction of Ion-Sound Waves in a Turbulent Plasma. <u>V. A. Liperovskii and V. N. Tsytovich</u>	(T)	1187	1623
Skin-Layer Stability in a Collisional Plasma. <u>A. B. Mikhailovskii and V. P. Sidorov</u>	(T)	1192	1630
Excitation of Electromagnetic Waves in Plasma by a Bounded Source. <u>Zh. D. Genchev and S. S. Kalmykova</u>	(T)	1199	1641
Dynamic Stabilization of the Negative-Mass Effect in Modulated Beams. <u>É. A. Perel'shtein</u>	(T)	1204	1648
Longitudinal Stability Criteria for Circulating Beams. <u>A. N. Lebedev</u>	(T)	1207	1652
Electron Acceleration to 30 MeV in a Rectangular-Resonator Microtron. <u>I. M. Matora, L. A. Merkulov, and I. I. Sheiontsev</u>	(T/E)	1213	1660
Measurement of Spectra of Particles with Momenta Up to 400 MeV/c with a Magnetic Spectrometer. <u>N. G. Afanas'ev, V. A. Gol'dshtein, G. A. Savitskii, E. V. Stepula, V. M. Khvastunov, and N. G. Shevchenko</u>	(E/T)	1221	1671
Metal Heating by Laser Radiation. <u>G. M. Rubanova and A. P. Sokolov</u>	(E/T)	1226	1677
Plasma Parameters in a He-Ne Laser ($\lambda = 6328 \text{ Å}$). <u>I. M. Belousova, O. B. Danilov, and I. A. El'kina</u>	(E)	1229	1681
The Effect of Hydrogen on Electron Emission of Metals Excited by Ions with Energies of 1-10 keV. <u>A. A. Doroshkin and N. N. Petrov</u>	(E)	1233	1686
Experimental Study of the Effect of Flicker Noise on Frequency Fluctuations in a Reflex Klystron. <u>S. A. Kornilov and V. G. Usychenko</u>	(E)	1237	1691

(Contd)

Copyright © 1968 by the American Institute of Physics

Available from American Institute of Physics
Vol 37, No. 9, March 1967

	PAGE	RUSS. PAGE
Magnetostriction and Magnetic Anisotropy Constants of Magnesium-Manganese Ferrites. <u>V. U. Usatov, V. P. Ryabinin, K. K. Burmakina, and R. P. Smolin</u>	(E) 1245	1701
Cathode Fall in Vacuum Arcs with Deposited Cathodes. <u>V. E. Grakov</u>	(E) 1248	1704
Switching Characteristics of a Three-Electrode Spark Gap. <u>G. A. Vorob'ev and G. S. Korshunov</u>	(E) 1251	1707
Statistical Study of Nanosecond Breakdown Delay in Narrow Gas Gaps in Superhigh Electric Fields. <u>G. A. Mesyats and Yu. I. Bychkov</u>	(E) 1255	1712
Telescopic Systems of Cylindrical Lenses. <u>L. G. Glikman, V. M. Kel'man, and E. M. Yakushev</u>	(E) 1261	1720
Helium Sorption by Layers of Condensed Gases. <u>V. B. Yuferov, V. A. Kovalenko, and P. M. Kobzev</u>	(E) 1265	1726
Use of the Dimensional and Similarity Methods in Investigating Pulse Discharge in Water. <u>I. Z. Okun'</u>	(T/E) 1267	1729
BRIEF COMMUNICATIONS		
Tuning of a Nonlinear Crystal to Generate the Second Harmonic in a Focused Beam. <u>V. D. Volosov</u>	(E) 1274	1739
LETTERS TO THE EDITOR		
Electrical Discharge through Laser-Induced Spark. <u>V. I. Vladimirov, G. M. Malyshev, G. T. Razdobarin, and V. V. Semenov</u>	(E) 1277	1742
Thermometric Method for Recording Boundaries in Ion-Mobility Analysis of Electrolyte Solutions. <u>B. P. Konstantinov and O. V. Oshurkova</u>	(E) 1280	1745

Available from American Institute of Physics
Vol 12, No. 9, March 1968

INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

- A -

Abagyan, L. P.	114
Abd-al-Malak, Raja	25
'Abdullah, Isma'il	24
Abramovich, G. N.	124
Abramovskiy, E. R.	116
Abrikosov, N. Kh.	74
Adam, Manfred	19
Adamczyk, T.	14
Adloff, J.	60
Adonts, M.	2
Agalakov, N. A.	72
Agalakova, I. K.	72
Agranat, V. Z.	46
Agricola, R.	89
Aiello, P.	112
Aimore, Artur	28
Akhromeiko, A. I.	42
Akhundova, K. A.	51
Akhutin, V. M.	74
Akimochkin, N. G.	41, 46
Akol'zin, P.	72
Alabyun, M. S.	101
Alayev, L. S.	45
Albano, G.	56
Alekhin, I. M.	4
Aleksandrov, L. V.	118
Aleman, Mario Rodrigues	33
Aliprandi, G.	96
Alitovskiy, Sergey	
Nikolayevich	1
Altpeter, W.	94
Al'tshuler, V. M.	66
Alvariz, F. G.	57
Amosov, B.	106
Amtsberg, H.	124
Anchugova, R. A.	37
Andersson, B.	89
Andreyev, L. N.	51
Andreyev, V.	2
Andreyev, V. D.	105
Andreyev, V. N.	51
Andrianov, S. N.	45
Andrianova, Zoya S.	62
Andriyashev, A. P.	68
Antipov, V. A.	117
Antoine, L.	85

Antonov, A. M.	118
Antonova, E. A.	82
Antonova, M. M.	59
Apashev, M. D.	107
Apostol, Gh. P.	17
Arakelyan, A.	7
Araki, T.	99
Arkhipov, A. S.	43
Arkhipov, V. M.	121
Arlt, W.	124
Arpai, J.	52
Artamonov, V. M.	111
Artemkin, A. S.	43
Artsimovich, L. A.	114
Ashbel' S. I.	43
Asinovskiy, E. I.	114
Askarian, G. A.	114
Astakhov, A. I.	107
Astashov, A. F.	81
Atakhanov, E. I.	49
Atsuya, Ikuo	124
Averbukh, V. I.	103
Avetisyan, A.	72
Axenciuc, V.	16

- B -

Babanin, N. I.	70
Babintsev, V. F.	123
Baboshin, B. K.	58
Bacher, Aron	25
Backer, J.	85
Badrus, Gh.	16
Baeschlin, C. F.	69
Bagdash, Khaled	8
Baglai, A. I.	45
Bakov, A. S.	10
Bakr, Ihsan	25
Balakirev, Yu.	4
Balashov, Yu. S.	46
Bales, H.	55
Bankowski, J.	77, 105
Bannikov, A. G.	48
Barabolya, P. D.	10
Baral, A. A.	5
Baranov, A. N.	66
Baranov, V. I.	67

Bardin, V. I.	63	Bobrov, E. G.	40
Barenblatt, G. I.	121	Bobrovich, G. I.	121
Barkalov, I. M.	112	Bockenhoff, H. J.	93
Barmin, S. F.	106	Bodnar, Artur	14
Baron, V. V.	117	Bodrov, V. Ye.	1
Barybin, V.	46	Bodrova, E. M.	49
Barzykin, V. V.	114	Boenecke, H.	93
Basekerskiy, V. A.	74	Bogdanov, P. L.	50
Batova, N.	7	Bogdanov, Yu. F.	51
Baudot, Henri	85	Bogorad, A.	1
Bauer, F.	92	Bohnenkamp, K.	87
Bauer, G.	94	Boichuk, L. M.	1
Baurmann, J.	86	Bokserman, Yu. I.	124
Baush, G.	119, 120	Bollenrath, F.	82, 95
Bayevskiy, R. M.	42	Bol'man, N. G.	116
Baz', A. I.	107	Bolotov, N. N.	6
Beczek, T.	15	Bondarenko, A. I.	81
Beklemishev, K. V.	67	Bondarev, A. M.	74
Belavin, N. I.	106	Bonvallet, M.	52
Belkin, M. Ya.	80	Borishanskiy, V. M.	117
Bel'kovich, V. M.	68	Borisov, A. A.	63
Belli, N.	16	Borisov, S. M.	107
Belokon', A. P.	9	Borisov, V. V.	48
Belotserkovskiy, Sergei		Borisovskiy, B. I.	116
M.	33	Borodina, R. M.	118
Beltran, Luis	24	Borov, E. G.	40
Belyakov, L. M.	102	Borovikov, E. M.	46, 109
Belyanin, N. M.	121	Borovskiy, B. I.	116
Belyayev, A.	2	Borowski, K.	87
Belyayev, M. N.	107	Bottcher, Hellmuth	55
Belyayev, Yu. N.	8	Boychuk, O. P.	111
Benecke, F.	13	Braga, C. H. M.	100
Beran, F.	55	Bratukhin, Yu. K.	121
Bereczky, Odon	70	Brauna J.	13
Berezov, B. M.	58	Braun-Falco, O.	53
Berg, E.	21	Brenner, M. M.	4
Berkovskiy, B. M.	113	Briest, Helmut	78
Bernashevskiy, G. A.	74	Brosch, C. D.	100
Berrendo, A.	127	Brozzo, P.	96
Berthier, D.	110	Brumberg, V. A.	125
Berzina, I. G.	115	Bruns, J.	94
Besednov, L. N.	68	Brushteyn, A. S.	123
Besekerskiy, V. A.	74	Brudevich, S. V.	67
Beskaravainaya, M. A.	40, 45	Bryusov, B. A.	65
Beznosov, G. P.	72	Brzeski, Franciszek	14
Bianco, S. L.	55	Bugutskiy, A.	7
Bichkov, B. M.	103	Bui Huy Dap	36
Bidulya, P. N.	80	Bukalov, V. M.	10
Bintener, E.	84	Bukhman, A. I.	44
Birger, I. A.	107	Bukowiecki, A.	92
Biro, P.	70	Bulakh, I.	7
Biryukov, N. S.	66	Bulatova, T. I.	41
Blain, P.	85	Bulovskiy, P. I.	33
Blajovici, Petre	16	Bulygin, N. E.	40

Bulygina, Ye. V.	33
Burakiewicz, Janusz	70
Buravtsev, A. I.	119
Bursa, M.	69
Burtan, Florin	16
Bushinskiy, G. I.	66
Bushkova, M. N.	73
Buyanov, A. I.	34
Buzin, D. P.	78
Buzuk, V. V.	66
Bykhovskiy, B. E.	39
Bykovtsev, G. I.	123

- C -

Caceres, Roberto	
Martinez	32
Caloni, O.	96
Canut, L. S.	21
Carignani, M.	83
Casas, Raymond	22
Cermak, Nedeljko	17
Cesselin, P.	90
Champeix, L.	84
Charbonnier, H.	108
Charret, M. Edouard	21
Chatterjee-Fischer, R.	90
Chaudron, Georges	85
Chavez, Hector Cornejo	32
Ch'en Kuo-ta	68
Chernovol, V. S.	105
Chernykh, V.	7
Chernyshev, A. D.	123
Chernyshev, P. S.	78
Chesnova, L. V.	64
Chiaverini, A.	84
Chiu Shin Min	77
Chizhik, A. A.	120
Chojnicki, Tadeusz	70
Christophers, E.	53
Chugunov, V. Ye.	75
Chushkin, P. I.	101
Codarcea, Al	70
Cole, William H.	86
Colombier, L.	86
Colombo, U.	85
Constant, A.	84
Coppolani, J.	84
Coriolano	30
Corso	32
Corten, F. L.	110
Csatari, Daniel	21
Czimbalmos, E.	16

- D -

Dadshev, R. S.	73
Dadykin, V.	35
Daeves, K.	91
Dahl, W.	92
Daletskiy, Yu. L.	103
Danilkon, I. S.	113
Danilov, I. B.	59
Danilov, M. D.	41
Danilov, M. M.	50
Danilova, A. A.	46
Dao The Tuan	36
Davidovich, G. Z.	3
Debicki, M.	20
DeBruine, H. J.	77
DeBruine, J. H.	19
de Castro, Josue	30
Decornoy, Jacques	27
Decurgez, Luis H.	31
Degossely, M.	52
Delacroix, P.	52
Delahaye, Victor	126
de Loringhoven, L.	84
Deme, S.	112
Dementsev, V.	3
Denisov, M.	6
Deordiyev, N. T.	81
de Santis, Sergio	31
de Santis, Ugo	56
Desvallees, J.	83
Devore, P.	85
De Wit, Andres G.	57
de Witte, G.	83
Deych, M. Ye.	78
Deyev, A. F.	76
Diallo, Saifoulaye	22
Diamandopol, M.	16
Dichtl, J. J.	88
Diehl	54
Dietzel, A.	91
Dikov, D.	20
Dimitrov, M.	18
Dmitriyev, A. N.	65
Dmitriyev, B.	49
Do Trung Dam	26
Doan Hoe	27
Dobatkin, V. I.	82
Dobrokhvalov, V.	11
Dobrynin, E. D.	110
Docent, V. Yagodka	2
Doitchinova, N.	53
Dolin, P. I.	112

Dolkart, V. M.	74
Dorofeyev, G. A.	112
Douroux, E. M.	125
Dressel, Walter	78
Droblenkov, V. F.	10, 75
Drosynakis, C.	110
Drozdov, V. N.	66
Drozdova, A. V.	39
Druzhinin, P.	2
Duel' I.	6
Dumaine, J.	84
Dundrova, V.	108, 109
Dutkevich, Yu. G.	104
D'yachenko, V.	8
D'yakonov, A. M.	43
Dyatlov, I. N.	116
Dychko, A. A.	74, 119
Dzagnidze, G. M.	106
Dzhamalov, O.	7

- E -

Ebel, H.	95
Ebeling, F.	92
Eden, G. E.	52
Edzhubov, L. G.	76
Efimov, A. V.	103
Egami, E.	98
Ehrenstein, G.	91
Eichler, Josef	77
Eisenmenger, W.	125
Eketorp, S.	109
Ekmania, Yu.	112
Ekwall, G.	89
El'bur, R. E.	76
Ellingham, Margaret	22
Elofson, O.	56
El'pern, I. T.	118
Emdin, G.	2
Emel'yanov, A. I.	117
Endrle, M.	83
Erdmann-Jesnitzer, F.	92
Erpelding, M.	108
Escardo, Harold G.	31
Eshkol, Yosef	26
Esipov, I. K.	45
Euler, R.	88
Exner, H. E.	88
Eysman, A. A.	76

- F -

al-Fahham, Ibrahim	25
Felivovich, Jaime	32

Fal'kovich, S. V.	116
Favre, R.	52
Fayn, S. B.	74
Fayzibayev, E. F.	103
Fazan, B.	85
Fechner, G.	90
Fedorchuk, V.	9
Fedoseyev, S. N.	81
Fedyun'kin, D. V.	42
Fegerl, S.	94
Feher, I.	112
Feitknecht, W.	60, 89
Feoktistov, A. E.	109
Fermi, Enrico	77
Ferrari, A.	96
Ferrier, A.	86
Ferusova, Kamila	33
Fesenko, B. I.	36
Fesenzov, V. G.	38
Feustel, E.	92
Fialkovskiy, P. G.	65
Ficek, Henryk	57
Fijalkowski, Jozef	109
Fikhtengol'ts, V. S.	79
Filippov, B. A.	66
Filippov, V. I.	108
Findeisen, G.	111
Fink, K.	88
Fischmeister, H.	88
Flandre, J. P.	123
Fleischmann, G.	57
Flores, Andres I.	127
Fodchuk, V. I.	103
Fojtik, Frantisek	12
Fomichev, N.	1
Fonarev, Ye.	2
Fong Ming-Yu	77
Fonkin, V. F.	79
Freiesleben, E.	57
Freisinger, J.	124
Frenzel, Rudi	13
Freze, V. I.	39
Frid, Ye. G.	107
Fridman, A. M.	120
Friese, G.	54
Frol'kis, R. A.	41
Frolova, G. D.	40
Frolova, M. A.	51
Frolovskiy, N. M.	82
Fromherz, H.	123
Fujita, T.	56
Fuks, I. G.	59
Funshteyn, L. V.	46
Futorian, Ye. S.	44

- G -

Gabдини, E.	96
Galand, I.	82
Gaman, V. I.	117
Garayevskaya, L. S.	63
Garbuzov, Z. Ye.	107
Garron, Roger	84
Gatun, V. P.	118
Gavrila, A.	18
Gavrilov, B. Ye.	112
Gavrilov, O. A.	76
Gavrilov, Yu. V.	74
Gavrilova, Z. I.	37, 38, 110
Gayevskaya, I. G.	39
Gazizov, B. G.	115
Gedwed, Jerzy	111
Gemmer, E.	91
Gemmerling, A. V.	106
Geniyev, G. A.	117
Geoffroy, J.	85
Georgi, Rudi	13
Georgieva, Mariya	18
Georgiyevskiy, V. S.	44
Gerasimov, K. M.	2
Gerasimov, V. N.	10, 75
Gerasimov, V. V.	72
Gershonov, Eliezer	12
Ghanem, 'Adel Hafez	25
Giersz, Andrzej	15
Gilinskiy, S. M.	76
Ginetsinskaya, T. A.	50
Ginevskiy, A. S.	125
Ginzburg, A. M.	106
Gleisberg, D.	90
Glowczyk, Jan	15
Gluhbegovic, Dzeved	17
Glushkov, V.	72
Gogonin, I. I.	121
Gokyu, I.	97
Gol'danskiy, V. I.	58
Goldenberg, D. M.	53
Gol'dman, I.	5
Gol'dshtein, M. I.	80
Goleminov, Chudomir	12
Golovin, I. N.	11
Golubyev, V. I.	114
Gomex-Trevijano, G.	
Coll	100
Gonzalez, Eduardo	
Paysse	30
Gorbunov, Yu. A.	65
Gorduchuk, A. V.	83

Gorelik, L. V.	64
Gorinskiy, V. N.	69
Gorlov, V. B.	80, 110
Gorskiy, I. I.	65
Goto, Hidehiro	124
Govallo, I. I.	111
Grafen, H.	89
Graff, W.	84
Graichen, H.	95
Gramatskiy, V. I.	75
Granholm, H.	100
Grassler, L.	77
Grauer, R.	89
Grdina, V.	80
Grdina, Yu. N.	80
Grebenshchikova, A. A.	48
Grebinskiy, S. O.	42
Grib, A. A.	120
Griese, Otto	21
Gritsman, Yu. Ya.	44
Grober, V. M.	103
Grochowski, Zdzislaw	15
Grodzovsky, G. L.	106
Grozier, J. D.	85
Grube, D.	88
Grushevoy, K.	9
Gruson, G.	91
Gruzdev, Yu. B.	111
Gruzewski, Stanislaw	14
Grzyb, J.	99
Gubergrits, A. Ya	50
Gudenau, H. W.	93
Guendel, H.	123
Guerra, Juan J.	
Hernandez	32
Guilhem, M.	24
Guillen, Abraham	32
Gukasyan, A. G.	49
Gunther, K.	124
Gurariy, G. Z.	66
Gurvich, F. G.	3
Gusakova, L. G.	49
Guseva, A. N.	45
Guseva, Galina	65
Gushchin, V.	107
Gusti, G.	16
Gutschmidt, J.	54

- H -

Haarmann, R.	92
Habjanic, Mladen	17
Hadj, B.	24
Hafner, Stefan	95

Hammer, R.	94
Hammerschmid, P.	88
Hampe, Erich	55
Hansel, W.	100
Hansen, M.	93
Haufe, W.	89
Haultmann, A.	94
Hayer, M.	99
Hayhurst, A. N.	119
Hebert, J.	24
Hedvall, J. Arvid	60
Heidepriem, J.	94
Heinen, B.	96
Heinen, H. M.	86
Heiss, R.	110
Henke, F.	90
Henkel, S.	94
Herberg, G.	125
Hernandez, G.	33
Herrmann, Dieter	13
Herzog, E.	84
Hill, E.	19
Hintersdorf, G.	88
Hase, Hirokazu	111
Hirvonen, R. A.	105
Ho Chi Minh	28
Hoang Le	28
Hoare, W. E.	89
Hodan, Petr	108
Hoff, H.	90
Hoffmann, H.	91
Hojas, H.	89
Holfert, G.	90
Holler, P.	86
Honma, T.	97
Honyi, E.	70
Hoormann, W.	87
Hora, H.	124
Hornbogen, E.	96
Horvat, Esteban	105
Hottenroth, B.	54
Houngbedji, Adrien	24
Hsien Lin Liu	68
Hsueh Yuan	60
Huang Chen-hui	68
Hubl, Milan	19
Hudec, Rudolf	108
Hufeld, P.	77
Hufnagel, F. J.	94
Hummitsch, W.	95
Hung	37

- I -

Ibragimov, A.	108
Ichido, H.	62
Iijima, H.	98
Ikornikova, N. Yu.	113
Ikramov, G.	115
Il'chenko, S.	110
Il'gamov, M. A.	116
Imhof, Edward	69
Inoue, K.	97
Ioffe, A. I.	120
Ioffe, M.	108
Ionel, N.	16
Iovchev, N.	52
Isakov, P. K.	125
Isentayev, K.	3
Ishii	56
Ishii, S.	56
Ismaylov, R. G.	126
Ispolinov, A. A.	34
Ivan, G.	96
Ivanashchenko, L. A.	9
Ivanchev, Boyan	12
Ivanitskaya, M. A.	44
Ivanov, I. I.	41
Ivanov, Kiril	18
Ivanov, U. A.	67
Ivanov, U. I.	115
Ivanov, V. A.	42
Ivanov, V. I.	113
Ivin, S. Z.	60

- J -

Jankovic, Nenad	127
Jard, S.	53
Jarema, Bohdan	14
Jaric, Milos	17
Jecko, G.	85
Jecmen, J.	110
Jensen, T. H.	59
Jeschar, R.	87
Jessen, Otto	69
Jimenez, Antonio Nunez	127
Joo, Istvan	70
Josefsson, A.	100
Jouvencaux, A.	53
Jung, J.	19
Juretzko, G.	95
Jurquet, Jacques	22

Kabachnik, M.	3
Kabakov, B. D.	50
Kadanka, V.	19
Kadlec, J.	83
Kaganov, V. Yu.	80
Kaigorodova, R. Ye.	43
Kairyukshtis, L. A.	47
Kajiyama, R.	62
Kalayda, V. I.	9
Kaler, V. L.	42
Kalinin, V. A.	119
Kallai, Gyula	18
Kal'nibolotskiy, V. I.	5
Kammori, O.	98
Kanellokopulos, Basil	62
Kanonidi, Kh. D.	36
Kantor, Ya.	11
Kapustin, Ye.	5
Karachenets, D. V.	71, 72
Karakozov, G. K.	121
Karasiychuk, Ye.	4
Karateyeva, Ye.	3
Karavayev, M. M.	60
Kardelj, Edvard	19
Kargin, A.	10
Karinthi, P.	86
Karpenko, A. N.	34
Karpman, V. I.	120
Karpukhina, G. V.	48
Kartashev, V. I.	71
Kasavina, B. S.	51
Kassirskiy, I. A.	49
Kastanek, O.	83
Kas'yan, I. I.	43
Kasymov, A. G.	68
Katalin, Darab	70
Kato, T.	98
Katrushenko, I. V.	40
Katskova, O. N.	101
Kauli, B. V.	34
Kaverin, V. A.	107
Kawaguchi, T.	97
Kazanskiy, Yu. A.	79
Kazantsev, A. N.	111
Keck, Chr.	108
Kegel, K.	89
Kelemen, K.	92
Keller, H.	87
Kenji Nakajima	56
Kenji Takagi	57
Kerimov, D. A.	76
Kesayev, I. G.	70
Khachaturov, T.	8

Kharazyan, A. P.	6
Kharkevich, A.	11
Khasdan, S. M.	79
Khetagurov, Ya. A.	73
Kheysin, Ye. M.	48
Khitrov, S.	2
Khizhnyak, P. Ye.	116
Khodorov, B. I.	41
Kholshchevnikova, Ye. K.	121
Kholyavko, V. I.	115
Khrgian, A. Kh.	37
Kichayev, P. M.	82
Kim, M.	1
Kimura, C.	62
Kipot' V.	65
Kirchner, E.	91
Kirichenko, F.	35
Kirkina, L. I.	82
Kirsanov, Z. I.	76
Kiselev, I. A.	65
Kishkin, S.	1
Kleinow, F.	95
Klepikov, I.	6
Klimnyuk, Yu. I.	33
Klimov, A. N.	118
Klinger, W.	53
Klinov, F. Ya.	37
Klinskiy, A.	8
Kluge, G.	54
Klykov, A. A.	4
Klyushinikov, V. D.	122
Kmonicek, V.	123
Knoppler, H.	19
Kobanyai, Peter	18
Kobold, F.	104
Kobrits, G. A.	51
Kobyakova, Z. I.	67
Koch, F. O.	88
Koch, W.	87
Kochetkov, L.	7
Kochetova, L. G.	123
Koczy, A.	22
Koehler, H.	124
Kogan, A. V.	110
Kogan, V. M.	75
Kohl, H. K.	87
Kohlmeyer, F.	93
Kolachev, B. A.	81
Kolacinski, May Antoni	20
Kolb, K.	86
Kolchinskiy, I. G.	37
Koleshko, S. B.	113
Kolesnik, V. V.	71
Kolesnikov, A. G.	64
Kolesnikov, I.	11

Kolomiyets, V. G.	118	Koval'nogov, A. F.	116
Kolpishon, E. Yu.	80	Kovan, I. A.	41
Kolyada, V.	1	Kovda, V. A.	62
Komarov, A. P.	33	Kovtonyuk, N. F.	117
Komissarov, D. A.	40	Kovtun, I. I.	102
Kondrashkina, K. I.	48	Kowalik, J.	14
Kondrat'ev, K. Ya.	36	Kowalik, R.E.	62
Kondrat'eva-Mel'vil'		Kozlov, S. I.	37
E. A.	40	Kozlov, V.	8
Konev, F. A.	73	Kozlova, A. V.	46
Konev, S. V.	39	Kozub, M.	3
Konobeyevskiy, S. T.	113	Kozyrev, S. P.	106
Konopicky, K.	83	Krakovskiy, N. I.	44
Konson, A.	8	Krasnitskiy, A. M.	40
Konstantinov, A. E.	38	Krause, U.	93
Konstantinov, A. R.	34, 35	Krauss, Krzysztof	15
	68	Kravtsov, Yu. A.	111
Konstantinov, K. G.	68	Krejci, L.	123
Konstantnaya, A. A.	40	Krichevskiy, R. Ye.	101
Kopeliovich, S. K.	38	Krinit'skiy, N. A.	74
Kopniczky, S.	92	Krisch, A.	86
Korchagina, I. A.	40	Krivososov, A. P.	5
Kordus, A.	59	Krock, A.	86
Koricheva, I. V.	82	Krokhin, O. A.	119
Kornilov, I. I.	82	Kronberg, E. G.	103
Kornyushin, Yu. V.	119	Krongauz, A. N.	47
Korobeynikov, V. P.	122	Krotova, V. A.	37
Korobko, M. I.	76	Krumbiegel, D.	35
Korolev, A. A.	81	Krzeminski, Witold	126
Korotkevich, V. S.	67	Kuhodera, H.	97
Korotkov, Yu. L.	5	Kubotera, H.	97
Korunov, M. M.	81	Kudela, V.	83
Koryakin, Ye. D.	64	Kuderskiy, L. A.	68
Koryavov, V. P.	123	Kudlo, B. P.	66
Korytnaya, L. A.	71	Kudryashev, L. I.	115
Korzheva, E. M.	11	Kudryavtsev, V. N.	76
Kositskiy, G. I.	44	Kuehn, Walter	13
Koslow, Igor	14	Kuester, Martin	27
Kosnac, L.	83	Kuhn, L.	91
Kossov, V.	2	Kuhnelt, G.	87
Kostenko, E. M.	82	Kukler, S.	19
Kostin, L.	5	Kulesh, K. F.	73
Kost'oan, E. Ya.	51	Kuligowski, Karol	15
Kostov, Khr.	19	Kulik, E. Z.	67
Kostychev, G. I.	73	Kulonen, L. A.	120
Kotel'nikov, V. P.	80	Kung, Cheng-tu	60
Kotkis, M. A.	79	Kunii, K.	98
Kotov, I. I.	101	Kunin, L. Ye.	81
Kotsegukov, V. P.	106	Kupzog, E.	88
Kovalenko, I.	2	Kurabe, H.	99
Kovalenko, V. L.	51	Kurdziel, L.	99
Kovalenko, V. S.	80	Kuregyan, V.	2
Kovalev, A.	1	Kurotchenko, V. I.	70
Kovalev, I.	9	Kurpel' N. S.	102
Kovalevskiy, V. A.	44	Kurz, B.	77

Kusaka, K.	97, 99
Kusakawa, T.	98
Kushkina, R. I.	111
Kushnirchuk, I. F.	102
Kutzelnigg, W.	56
Kuz'min, G. A.	33
Kuznetsov, I. L.	122
Kuznetsov, L. A.	78
Kvasha, L. G.	38
Kvasha, Ya.	7
Kvetov, J.	123
Kvitnitskaya, L.	2
Kyftiu, Abdurrahim	20
Kyuya Matsuno	111

- L -

Lachenait, C.	85
Lacquaniti, L.	70
Ladariya, G. G.	104
Ladyzhenskaya, O. A.	103
Lagutin, N.	6, 8
Lajtai, Vera	14
Lakhanin, V. V.	112
Lalayants, A.	2
Landau, Benjamin	26
Lange, F. H.	77
Langova, J.	55
Lantsman, R. M.	75
Laptev, V. I.	48
Larin, Ye. F.	42
Lauer, N. V.	45
Lazarev, V. G.	74
Lazareva, Ye. V.	122
Lazarov, M.	42
Le Dai Ly	29
Le Duan	28
Le Quy Quynh	28
Le Than Nghi	28
Le Van Lanh	28
Lebedev, Lev. M.	79
Lebedev, V. N.	111
Lebedev, Ya. S.	113
Lebras, A.	84
Lechuga, Carlos	30
Lecrivain, L.	83
Ledersteger, K.	37
Ledersteger, Karl	69
Lefebvre, Joseph	24
Leonov, A. I.	122, 10
Leonov, A. K.	63
Letavet, A. A.	43
Levallois, J. J.	69, 104
Levin, F. I.	34

Levin, I. A.	4
Levina, L.	2
Levshin, V. L.	58
Lewandowski, S.	109
Lewicki, Chr.	91
Leykin, A. E.	79
Lieberman, G.	5
Lifshits, A. L.	102
Likhodiy, P.	1
Lindberg, G. U.	65
Lindenbraten, L. D.	46
Lisitsyn, A. P.	63
Lisitsyn, V.	4
Litvinov, D. V.	78
Liu, Ch'en-hua	104
Livshits, V. B.	80
Lob, H.	124
Loechte, W.	59
Logothetis, D.	90
Lomako, P.	79
Lomonosov, S. A.	60
Lomovtsev, L. A.	79
Longo, Luigi	8
Loos, H. R.	124
Loscher, H.	92
Loshchilov, A.	10
Loukomski, I. I.	49
Loyter, M.	8
Lubitch, Ruth	25
Lueg, W.	93
Lukacs, S.	56
Lukanina, V. S.	59
Lukevits, E. Ya.	58
Lukic, Sveta	21
Lukomskiy, P. Ye.	44
Luk'yenova, A. D.	48
Lun'kin, Yu. P.	113
Lunts, D. R.	51
Lupo, Rogelia Garcia	31
L'vovich, A. Yu.	120
Lyapunov, A. M.	101, 124
Lyubimov, G. A.	122
Lyubitov, Yu. N.	113
Lyumkis, Il'ya	74
Lyusov, A. N.	6

- M -

Mabruk, 'Abbas	126
Machado, Max Fernandes	
Alvin	101
Macherauch, E.	86
Macovei, E.	16

Madono, O.	98	Merkulov, I.	125
Mai Phong	36	Mertes, H.	93
Maitan, Livio	31	Mertsalova, O. B.	37, 106
Makhmudov, Yu. A.	101	Meschi, P.	96
Makhonin, V. V.	111	Meyerson, D.	108
Makhover, Z. M.	38	Meysson, N.	85
Makomaski, A.	90	Miazin, I. D.	5
Maksimov, D. G.	43	Michard, J.	84
Malakhiyev, A. M.	6	Migay, V. K.	117
Malanov, M. D.	122	Migraleyev, A.	1
Malkowski, Jan	35	Mihai, C.	17
Malovichko, A. K.	65	Mikhaylenko, N. M.	38
Mal'tsev, T.	9	Mikhaylenko, V. D.	107
Mamayev, S. A.	42	Mikhaylov, B.	8
Mamro, K.	99	Mikhaylov, F.	4
Mandl, M.	99	Mikhaylov, N.	6
Manescu, Radu	16	Mikhaylov, Yu.	114
Marchal, Christian	104	Mikhaylov, Yu. A.	114, 115
Marchenko, G. A.	116	Mikhaylov, Yu. D.	66
Marchenko, Ye. N.	43	Mikkau, M. F. K.	80
Marckwordt, U.	53	Mikula, Edward	15
Margerie, J. C.	84	Mikulinskiy, V. I.	109
Marian, M.	18	Milcu, S. M.	53
Mariategui, Jose		Mil'man, V. D.	118
Carlos	30	Milnovic, Petar	35
Markman, A. L.	34	Milunovic, Dragutin	109
Markovskiy, A. P.	65	Milyutin, V. N.	80
Martin, Heinz	125	Minc, Bronislaw	15
Martin, P. F.	84	Minina, E. G.	40
Martinez, Christian	32	Mirkin, Lev	79
Martinkevich, F.	7	Mironov, V. F.	58
Martynov, D. Ya.	38	Mishigdor, Ts.	8
Martynyuk, G. F.	76	Mishnev, Yu. N.	44
Marussi, A.	69	Misnik, G. E.	41
Mashkin, S. I.	40	Missol, W.	99
Maslennikov, V.	3	Mitrega, Jan	15
Mateesco, D.	84	Mitropol'skiy, Yu. A.	105
Matsuoka, T.	98	Mkhitaryan, A. M.	115
Matsuura, T.	57	Mnatsakanov, R. B.	104
Matthaes, K.	95	Moiseytsev, P. I.	46
Maurin, A.	43	Moisin, Dragomir	100
Maydanyuk, M. N.	102	Mokhnach, V. O.	50
Mayer, H.	90	Molotkovskiy, G. Kh.	42
Mazayev, P. N.	50	Moncloa, Francisco	32
Maz'ya, V. G.	104	Mondot, J.	84
Mazzanti, M.	96	Moray, M.	125
Mecke, R.	56	Mordvinov, R.	10
Mehlan, Kh.	55	Mordvinov, V.	11
Meinshausen, G.	108	Morgentha, E.	92
Melekhin, L. F.	109	Mori, H.	98
Melekhov, D. E.	48	Moritz, H.	70, 105
Mel'nikov, N. N.	58	Morosov, V. M.	47
Mel'nikova, N. S.	120	Morozov, P. V.	9
Meretskoy, K. A.	10	Moscato, Antonio	31

Moseyenko, B. I.	105
Moskalenko, G.	9
Moskvitin, N. I.	58
Mosse, A. L.	114
Motorin, I.	6
Moullec, J.	53
Mrosko, K.	96
Muckli, H.	91
Mudimbe, Valentin Y.	24
Mueller, Paul	13
Muhs, H.	88
Muller, Rolf	19
Muller, W. T.	77
Murai, K.	62
Muraki, J.	99
Murawska, Halina	15
Murofuku, K.	62
Muromova, R. S.	44
Murry, G.	84
Musatov, V. A.	48
Musayev, V. M.	103
Mushinskiy, V. P.	75
Musial, M.	83
Musselius, V. A.	48
Muta, A.	97
Mutafyan, E. M.	43
Mutze, H.	95
Myasnikova, A. V.	34
Myers, H. P.	100
Myshkis, A. D.	101, 118

- N -

Naef, A.	54
Nafi, Ahmed	25
Nakoriakov, V. E.	114
Namestnikov, V. S.	121
Narita, K.	97, 99
Narushbayev, A. A.	10
Nassar, Salah	26
Naugol'nykh, K. A.	120
Nazarenko, A.	10
Nezarov, V. B.	4
Nebenzya, A.	11
Nechayeva, N. T.	63
Negescu, I.	16
Nekasov, Z.	79
Nelepo, B. A.	64
Nenarokomov, A. V.	45
Neustroyev, V. D.	51
Neyman, A. A.	68
Nguyen Cong Hoa	29
Nguyen Thanh Nam	28
Nguyen Thanh Nghi	29
Nguyen The Hung	30

Nguyen Tho Chan	28
Nguyen Van Loc	36
Nikitin, A. A.	36
Nikitina, N. A.	46
Nikolayeva, Z. V.	50
Nikolov, Docent Ivan	12
Nikol'skiy, E.V.	122
Nkwata, Elie	24
Noerenberg, N.	93
Noetzel, Brunon	15
Norkin, S. B.	102
Nosovitskiy, B. M.	80
Notkin, D. I.	4
Novitskiy, V. P.	66
Nukscha, Yu. P.	48
Nunez, Carlos	30

- O -

Obst, K. H.	94
Obukhov, A. M.	113
Ogawa, S.	99
Ogiyevich, V. A.	106
Ogurtsov, V. L.	72
Ogurtsova, N. N.	107
Ohoshi, N.	97
Okuda, H.	97
Okuda, T.	97
Olewinski, Marian	126
Oliva, Enrique Lopez	31
Ollshevskiy, O. V.	73
Onufriyev, A. T.	123
Oparin, A. I.	38, 51
Oparina, Ye. M.	81
Orlov, A. V.	39
Orlov, I. I.	46
Ostberg, J. E.	90
Ostrovityanov, K. V.	7
Otto, F. J.	54
Otto, M.	108
Ovisannikov, K. A.	10
Ovsyannikov, M. P.	115
Ozol, A.	62
Ozol, A. M.	42, 79
Ozols, R. Ya.	114

- P -

Pabon, Reynaldo	
Salgueiro	70
Paczula, B.	92
Pak, Yu.	5
Palladin, A. V.	52
Panafidin, Ka. K.	59
Panfilova, L. M.	80

Panfilova, S. G.	64
Pankratov, V. V.	75
Pan'shin, I. V.	50
Papajorgji, Harilla	12
Papuli, G.	86
Paraluta, Mihai	16
Parin, V. V.	44
Parker, Luis	
Hernandez	31
Parkhomenko, Eleonora I.	62
Pasechnik, V. M.	114
Pashkovskiy, V.	3
Patterson, W.	90
Paul, R.	77
Pavlova, O. I.	81
Pavlovic, R.	35
Pavlovic, Ugljesa	17
Pavlovskiy, E. N.	43
Pavlovskiy, E. S.	45
Pavlovskiy, Ya: N.	70
Pawelski, O.	108
Pegel' V. A.	42
Pekarskiy, L.	7
Pelhan, C.	95
Pentegova, V. A.	44
Peredereyev, V.	2
Perel'man, Aleksandr I.	39
Perel'man, M.	8
Perfil'ev, I. A.	40
Pertsev, M. A.	4
Petin, G. P.	73
Petrashen', G. I.	119
Petrov, A. D.	58
Petrov, I. K.	4
Petrov, T. G.	76
Petrova, V.	126
Petrusevich, R. I.	81
Petukhov, V.	3
Petunin, V. K.	71
Pevzner, A.	7
Pfirsch, D.	124
Pham Van Dong	28
Pick, Milos	69
Piest, Jurgen	69
Pietsch, W.	87
Piispanen, Asmo	96
Pipiya, V. I.	44
Pirinchiyeva, R. K.	58
Pisarenko, G. S.	82
Pitsch, W.	87
Pivnenko, V. N.	102
Piyi, M.	26
Pleshanov, A. S.	121
Plessing, R.	89
Pliskovskiy, Ye.	3

Podeszewski, Zbigniew	57
Podgoda, Z.	105
Podol'skaya, O. I.	41
Poibrenski, Todor	18
Pokshishevskiy, V. V.	11
Pokstefl, Josef	18
Polak, L. S.	59
Polanska, Aurelin	21
Polezhayev, V. I.	101
Polikarpov, G. G.	49
Polishuk, R. F.	36
Polovnikov, A.	6
Polyakov, P. I.	106
Polyakov, V. I.	102
Ponomarev, B.	8
Ponomaryeva, V. V.	49
Poos, A.	84
Popescu, Gheorghe	16
Popov, G.	4
Popov, N. V.	78
Popov, Ye. P.	74
Poppmeier, W.	89
Porotskiy, E. S.	79
Potapov, A. I.	81
Potapov, N. M.	1
Pototskiy, V. V.	104
Prazic, Dj.	17
Prilezhayev, N.	58
Prilezhayeva, N.	58
Prirods, A.	52
Prischep, A. G.	51
Prisnyakov, V. F.	116
Prokapov, V.	3
Prokop'yev, V. N.	43
Pronichkin, A. P.	10
Proske, M.	93
Protich, Ivan	12
Pryadilov, A. I.	125
Puck, Alfred	124
Pudoveyev, A. P.	116
Purysheva, T.	5
Pushcharovskiy, Yu. M.	63
Putsch, K. W.	108
Pytko, S.	83

- Q -

Quang Thai	29
------------	----

- R -

Rabinovich, V. P.	78
Rabotnova, I. L.	47
Rachkovskiy, N. G.	111
Raful	26

Raimondi, R.	109
Rajic, T.	35
Rakocevic, S.	17
Ramm, A. G.	104
Rapic, S.	57
Rassmann, G.	95
Rastrigin, L. A.	75
Ratinov, A. R.	76
Rayzer, Yu. P.	122
Razim, C.	96
Razina, L. G.	42
Recasens, J.	88
Regia, J.	48
Reifferscheid, K.	90
Reiman, Max	18
Relander, K.	86
Rembold, H.	55
Remezov, N. P.	45
Remy, R.	83
Renne, G.	5
Repenko, A.	2
Rev, Lajos	14
Reyes, Vitelio	31
Reznikov, A. N.	101
Reznikov, B. I.	113
Richau, G.	94
Richling, W.	90
Rieder, K.	89
Rietz, L.	92
Rikhter, G. D.	62
Rochet, Waldeck	22
Rode, A. A.	64, 65
Rodewald, Arnold	77
Rodriguez, Aniceto	32
Rodriguez, Carlos Rafael	31
Rodriguez, Javier	31
Roeder, K. P.	94
Roglic, S.	110
Rogov, A.	7
Rokhlin, V. A.	103
Rokhline, L. L.	47
Romanov, V. I.	64
Romanova, N. N.	68
Rose, F.	52
Roshchin, A. V.	43
Roszbach, H.	124
Rossikhin, G. V.	121
Rostovtsev, S. A.	64
Rotleyder, A.	1
Rozenko, P.	3
Rubanik, V. P.	102
Rubtsov, I. A.	45
Ruckerl, E.	86

Rudnev, D. F.	45
Rudnev, K. N.	4
Rusakova, Ye. V.	51
Rushkis, Val.	106
Russ, K.	55
Russov, V. A.	9
Rutgayzer, V.	7
Rybak, V. I.	71
Rybal'skiy, M. I.	48
Rybarski, Juliusz	99
Rys, J.	99

- S -

Sabaneyev, V. A.	120
Sabaneyev, V. S.	120
Sacconi, Luigi.	62
Sachenkov, A. V.	106
Safaryan, M. N.	122
Sagomonyan, A. Ya.	120
Saito, T.	98
Sajo, I.	92
Sakagaki, Riichi	57
Sakui, S.	98
Salamakhin, T. M.	120
Salanki, Janos	56
Salvadori, R.	60
Samoilov, A. G.	112
Samoylenko, A. M.	102
Samozvantsev, M. P.	121
Samsonov, G. V.	59
Samsonov, Grigoriy Valentinovich	79
Sandberg, S. O.	60
Sano, K.	99
Sapozhnikov, N. I.	116
Sarojamma, M.	91
Saulnier, A.	85
Savchenko, V. G.	117
Savitskiy, B.	126
Savitskiy, E. M.	117
Scavini, A.	83
Schaaber, O.	90
Schaarwachter, W.	89
Scheidig, K.	91
Schenck, H.	87
Schleiffer, J.	60
Schluter, A.	55
Schmidt, W.	88, 95
Schmidtman, F.	86, 87
Schnegelsberg, G.	94
Schneider, K.	92
Schoberl, A.	92
Scholz, W.	87

Schottky, W.	124	Shuntov, V. P.	68
Schrewe, H.	94	Shvedova, N. S.	121
Schubert, J.	20	al Siba'i, Mahmoud	26
Schulze, A.	54	Sidorov, P. N.	108
Schulze, R.	69	Siefer, W.	90
Schumann, H.	87, 95	Siewert, J.	94
Schurmann, E.	90	Siforov, V.	73
Sebastiao, Silva	23	Sikama, Y.	57
Secomski, Kazimierz	16	Sillen, R.	100
Sedyakin, N. M.	42	Simchera, V.	9
Sedykh, A.	105	Simonenko, G.	11
Sedykh, R.	106	Singhuber, Kurt	13
Seidel, H.	94	Sirota, N. N.	58
Seikichi Mishima	56	Sitaryan, S.	3
Semenova, I. P.	122	Sivadjian, Joseph	123
Semenyuk, A. D.	71	Skachek, B. Ya.	102
Senda, K.	98	Skachkov, P. S.	115
Sen'kin, Ye. P.	104	Sklyarov, A.	2
Sentyurikhina, L. N.	87	Sklyarov, P.	5
Sergeychuk, K. Ya.	6	Skochinskogo, A. A.	64
Sergeyev, G. T.	114	Skripnichenko, S. Yu.	33
Severin, S. Ye.	44	Skrobak, Ferenc	20
Shabliy, O. N.	118	Skryabin, A.	7
Shakhbazyan, F. A.	60	Skryabin, K. I.	39
Sharonov, V. V.	37	Skvortsov, G. A.	60
Shatalov, Ye. T.	65	Slijper, E. J.	54
Shatunov, G.	10	Slisskiy, S. M.	72
Shaykin, V.	34	Slobodyanyuk, T. F.	72
Shchegolev, G. S.	78	Smirnov, K. K.	105
Shchepot'ev, F. L.	45	Smol'skiy, B. M.	118
Shcherbakov, V. K.	74	Snegur, A. A.	71
Shcherbinin, I. V.	46	Sofroni, L.	100
Shchukin, V. K.	116	Sofroshenkov, A. F.	80
Shehu, Mehmet	17	Sokolinskaya, T. A.	82
Shein, V. A.	4	Sokolov, A. V.	34
Shermenev, M.	3	Solereder, H.	55
Sherstyuk, A. N.	33	Solle, Horst	12
Shevelev, A. S.	101	Sologub, V. S.	118
Shevtsov, A.	9	Soloukhin, R. I.	121
Sheynin, I. S.	110	Solov'ev, A. A.	46
Shifrin-Dryzhalovskiy,		Solov'yev, G. M.	44
Yu. A.	74	Solov'yev, V. S.	114
Shishkin, N. K.	9	Sonechkin, D. M.	37
Shkurko, S.	5	Sonku, Y.	56
Shkutin, L. I.	122	Sonnabend, E. H.	23
Shlaza, Yu.	117	Sonnenschein, H.	93
Shliomis, S. I.	121	Soretz, S.	89
Shlyakhov, A. R.	75	Sorokin, V. P.	68
Shtekh, G. I.	63	Soulairac, A.	52
Shternberg, M. B.	59	Sovin'skiy, A.	72
Shtil'man, Ye. V.	73	Spasov, Sp.	19
Shturman, Ya. P.	73	Spirkin, V.	1
Shubin, V. A.	50	Spitsyn, E. Ya.	112
Shuji, Enomoto	57	Staats, G.	95
Shulezhko, L. F.	103	Stadelmaier, H. H.	91

Stadler, F.	91
Staib, C.	85
Stakhiyev, Yu. M.	105, 109
Stamov, Stamo Zh.	12
Stanisavljevic, Dobrivoje	35
Starchenko, D. I.	80
Stasenko, A. L.	122
Stecher, H.	95
Stefanovits, Pal	70
Stefanovskiy, V. A.	106
Steffens, H. D.	90
Steinbrecher, O.	88
Stekhnovskiy, D. I.	38
Stekol'nikov, I. S.	72
Stepanov, V. I.	77
Stepien, Jerzy	99
Stesik, L. N.	121
Stetsenko, A. G.	118
Stettiner, Richard	21
Stettner, A.	94
Stojanovic, Svetozar	19
Stoph, Willi	13
Storozhev, V.	8
Storozhev, V. I.	81
Stoychev, Todor	12
Strak, Witold	15
Strakhov, N. M.	79
Straube, H.	87
Strecky, J.	83
Stricker, H.	54
Stroganov, S. U.	52
Strus, Anastazja	126
Stupochenko, Ye. V.	122
Subbotin, V. I.	113
Sucharda, Bohumil	12
Suchkov, B.	9
Sugazawa, K.	98
Sukhotin, Yu.	8
Sultanov, R. M.	103
Sulyok, Bela	14
Suprun, A. N.	76
Surpat, Gh.	16
Suvarovskiy, P. P.	117
Sveshnikov, V. A.	68
Svets, V.	82
Sviridov, N. V.	11
Sydow, P.	13
Sysoyev, V.	10
Szczeniawski, J.	85
Szentesi, Andras	125
Szozeniawski, J.	100
Szumilas, Wladyslaw	15
Szyr, Eugeniusz	126

- T -

Ta Quang Buu	127
Taban, Bronislaw	15
Tabeyev, F.	5
Tagiyev, G.	3
Takechi, H.	97
Tamkhina, I.	81
Taranovskaya, M. Z.	106
Tarasenko, V. P.	33
Tarmann, B.	89, 91
Tarmann, H.	89
Tarnorutskiy, M. M.	59
Taube, Mechislav	124
Tauberan, P.	85
Taubman, A. B.	60
Tavadze, F. N.	81
Tavadze, L. F.	82
Teodorchik, K. F.	113
Terpigorev, A. M.	109
Teterin, M. P.	114
Thauss, Von A.	34
Theolier, M.	85
Thiele, K.	12
Thomich, W.	93
Thomine, J. M.	52
Thuhni, Mahmoud	25
Tikhomirov, V.	42
Tikhomirova, N. N.	113
Tikhonenko, M. I.	59
Tikhonov, A. S.	124
Tkachev, Yu. A.	115
Tohar, K.	60
Tolmachev, A. I.	39, 49
Tolok, V. T.	118
Tolstaja, S. N.	60
Tolstoy, V.	6
Toma, Carol	62
Tomingas, K. V.	101
Tondl, A.	108
Toshifusa, Sakakoto	111
Toshikazu Kobayashi	57
Toshikazu Hoshina	56
Toure, Ahmed Sikou	24
Toure, Sekou	24
Tournier, P.	53
Tovarnitskiy, V. I.	51
Tran Huy Lieu	29
Tran Van Ky	60
Treffner, W. S.	88
Treivus, E. B.	76
Treppschuh, H.	93
Treshnikov, A. F.	66
Tret'yakov, M. V.	115

Treys, P. P.	73
Tripsa, I.	100
Trolldenier, G.	53
Tronstad, L.	60
Tropin, I. V.	110
Troyanovskiy, B. M.	78
Trubnikov, I. I.	109
Truong Chinh	28
Trusov, A. I.	76
Trusov, V. A.	79
Truupyl'd, A. Yu.	41
Tseytlin, M. B.	117
Tshimbayi, Alidor	24
Tsintsadze, I. Sh.	81
Tsonkov, Docent G.	17
Tsuda, T.	98
Tsujimura, T.	98
Tsumoo, S.	57
Tuong, Shih-Chia	77
Turski, Jerzy	15
Tuz, A. S.	48
Tyul'panov, N. M.	34
Tyul'panov, R. S.	114

- U -

Uchytil, B.	52
Uglov, B. N.	82
Uhlenbruck, G.	55
Ulin, O. V.	71
Ulmanis, L. Ya.	119, 120
Ulmer, G.	84
Ulrich, E.	95
Unger, W.	89
Unksov, Ye.	82
Unterberger, V. K.	59
Unzueta, Gerardo	32
Ural'tseva, N. N.	103
Urbonavichius, E. M.	5
Uriel, J.	60
Usnenskiy, V. I.	110
Uspenskiy, V. P.	107

- V -

Vakhidov, Sh.	115
Vakman, D. Ye.	111
Valentey, D.	7
Vallander, S. V.	119
Vamos, E. F.	92
Vandenplas, P. E.	59
Van de Voorde, Marcel	112
Van Draat, H. J. Fijn	60
Vanyan, L. L.	105
Varnello, V. V.	120

Vasile, S.	35
Vasil'yev, A. A.	107
Vasil'yev, I. V.	81
Vasil'yev, O. V.	123
Vasil'yev, R. D.	112
Vasil'yeva, T. G.	50
Vatazhin, A. B.	121
Vater, M.	91, 93
	94
Vatul'ov, V. M.	119
Vavilov, Yu. N.	64
Vaynshtok, V. V.	59
Vaynson, A. A.	107
Vdovkin, G. P.	67
Veber, L. G.	47
Velikina, M. M.	49
Vereshchagin, N. K.	48
Vereshchinskiy, I. V.	112
Veretennikov, A. V.	35
Verlan' A. F.	71, 101
Vertushkin, V. K.	115
Veselkov, F.	7
Veynberg, V. B.	117
Veyrier, Marcel	22
Viires, A.	3
Vilinov, G. I.	6
Vinogradov, A. I.	104
Vinogradov, K. A.	64
Vinogradov, M. Ye.	68
Vinogradov, V. S.	33
Vishnyakova, T. P.	82
Vistelius, Andrew B.	101
Vittikh, V. A.	72
Vladimirskaia, M. E.	50
Vlasov, A. D.	118
Vlasov, V. P.	75
Vlasov, V. Z.	103
Vogt, J.	88
Volf, Z.	83
Volkov, I.	72
Volkov, Yu. A.	103
Volosatov, B. M.	9
von Bogdandy, L.	86
von Economo, C.	54
Vornovitskiy, Ye. G.	41
Vorob'yev, A. P.	119
Vorob'yev, Ye. I.	46
Vorob'yev, Yu.	7
Voronkov, M. G.	58
Voronova, A.	35
Vorontsov, V. K.	82
Voss, A.	9
Vovchenko, N. Ya.	111
Voytovyuch, I. D.	39
Vranicki, Predraj	19

Vsevolodov, N. N.	123
Vsyakikh, A. S.	49
Vtabchev, G.	52
Vukasovic, Ante	21
Vukovits, G.	55
Vulkov, Iliya	12
Vyatkin, A. Ye.	4
Vyskocil, V.	69

- W -

Walczewski, Witold	15
Wallquist, G.	100
Wang, Chang-ling	52
Wartmann, R.	93
Wasik, M.	19
Watanabe, S.	99
Watanabe, Y.	98
Wellinger, K.	95
Welte, E.	53
Wennemann, W.	88
Wenzel, W.	93
Werthebach, P.	93
Wesseling, J.	93
White, F. E.	85
Wicher, A.	93
Widner, Richard	69
Wiebach, H. G.	91
Wirth, F.	54
Wirth, W.	88, 89
Wittmoser, A.	93
Woelk, G.	93
Wojcicki, Stanislaw	125
Wolanskiy, Piotr	34
Wolf, Bodo	125
Wronski, M.	57
Wszolek, Franciszek	15
Wu Jen Chi	77
Wyrzykowski, Jerzy	112
Wyss, H.	89

- Y -

Yablokov, A. S.	47
Yablonskiy, E. A.	47
Yakovlev, A. F.	77
Yakubovich, V. A.	39
Yalovoy, N. S.	107
Yamada, T.	97
Yamada, Y.	98
Yampol'skiy, S.	7
Yanatkhanov, F. N.	36
Yanchevskiy, E. A.	107
Yang, K'o-hsuan	52

Yanov, Aleksandr	11
Yarkovets, A. I.	116
Yarosh, V. F.	63
Yasells	32
Yasunobu, Uchida	57
Yavoiskiy, V. I.	80
Yefimov, B. A.	75
Yegipko, V. M.	71
Yegorov, N. S.	47
Yegorov, V. A.	125
Yeletskiy, V. A.	107
Yeliseyev, V. K.	71, 72
Yelyutin, V. P.	11
Yermenko, V.	8
Yermolayev, M. M.	67, 63
Yermolenko, Ye. N.	58
Yershov, N. S.	116
Yerusalimov, E. N.	46
Yevdokimenko, A. D.	6
Yevreinov, E. V.	101
Yurans, V.	75
Yurev, Yu. I.	110
Yurgenson, P. B.	39, 50
Yusfin, Yu. S.	80

- Z -

Zaar, E. I.	40
Zaidel'man, F. R.	65
Zaitsov, V. T.	45
Zajdel, Florian	15
Zakhariev, Vasil	18
Zakharov, Yu. V.	112
Zakrevskiy, A. D.	74
Zakutskiy, V. P.	64
Zalgaller, V. A.	104
Zarubin, A. F.	34
Zaslavskiy, B. I.	122
Zatenyakin, M. M.	118
Zavarina, M. V.	37
Zavolova, N. D.	33
Zayar, E. I.	40
Zaychenko, Ye. N.	33
Zaytsev, S. G.	122
Zaytsev, V. G.	38, 71
Zaytseva, K. A.	58
Zedgenidze, G. A.	46
Zegzhda, S. A.	120
Zel'dovich, Ya. B.	101, 104
Zelemy, F.	77
Zelentsov, B. P.	101
Zenukov, A. G.	115
Zernova, V.	67
Zharikov, G. P.	39

Zharinov, A. V.	112
Zharkov, V. N.	119
Zheleznyakov, A. V.	106
Zhernenko, A. S.	102
Zhernovoy, A. I.	113
Zhigalova, I. M.	106
Zhigulev, V. N.	115
Zhmud', K. B.	50
Zhuk, K. D.	71
Zhuravskaya, E. I.	45
Zil'berberg, A. A.	104
Zimering, S.	86
Zimmer, K. G.	55
Zimont, V. M.	124
Zivanovic, R.	62
Zlobin, G. A.	75
Zolotarev, P. A.	125
Zolotareva, R. V.	79
Zonn, S. V.	63
Zorichev, V. D.	78
Zotov, V. S.	106
Zverev, L.	8
Zvornarzh, V.	81
Zvyagin, Boris B.	79

UNCLASSIFIED
Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in dark ink, 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)

UNCLASSIFIED

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