

UNCLASSIFIED

AD NUMBER
AD856606
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; May 1969. 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



CONSOLIDATED TRANSLATION SURVEY

Number 137

Through 31 May 1969

CENTRAL INTELLIGENCE AGENCY
Washington, D.C. 20505

FOR OFFICIAL USE ONLY

AD 856606

CONSOLIDATED TRANSLATION SURVEY

FOR MAY 1969

TABLE OF CONTENTS

	<u>Page</u>
Preface	iii
Requests for Copies	iv
USSR	
Economic	1
Political	9
Military	11
Sociological	15
Eastern Europe	
Economic	16
Political	22
Military	25
Sociological	25
Western Europe	
Economic	26
Political	26
Military	28
Africa	
Economic	29
Political	30
Sociological	31
Middle East	
Economic	31
Political	32
Military	34
Sociological	34
Far East	
Economic	35
Political	35
Military	39
Sociological	39

	<u>Page</u>
Latin America	
Economic	40
Political	41
Sociological	46
Geographic	47
Scientific	
Aeronautics	48
Agriculture	48
Astronomy and Astrophysics	54
Atmospheric Sciences	55
Behavioral & Social Sciences	58
Biological & Medical Sciences	59
Chemistry	69
Earth Science & Oceanography	76
Electronics & Electrical Engineering	81
Energy Conversion (Non-Propulsive)	86
Materials	88
Mathematical Sciences	109
Mechanical, Industrial, Civil & Marine Engineering	111
Methods & Equipment	120
Navigation, Communications, Detection & Countermeasures	123
Nuclear Science & Technology	124
Propulsion & Fuels	139
Space Technology	141
Miscellaneous	142
Information on Cover-to-Cover Translations	144
Index to Authors	275

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 in 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.

REQUESTS FOR COPIES

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

Addresses of producers are as follows:

ACIC - Aeronautical Chart and Information Center
(see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AFRCL Res Lib

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

AGU

American Geophysical Union
Suite 506
1145 19th Street, NW
Washington, D. C. 20036

AIP

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

Amer Math Soc

American Mathematical Society
P.O. Box 6248
Providence, Rhode Island 02904

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL/JHU

Applied Physics Laboratory
The Johns Hopkins University
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

CFSTI

Clearinghouse for Federal Scientific and
Technical Information
Port Royal and Braddock Roads
Springfield, Virginia 22151

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10600

CTT

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

Derwent Publications Limited

Derwent Publications Limited
Rochdale House, Theobolds Road
London, W.C. 1, England

DIA

Defense Intelligence Agency
Washington, D. C. 20301

FP

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

FSTC - Foreign Science & Technology Center

Defense Documentation Center
Cameron Station
Alexandria, Virginia 22314

FTD - Foreign Technology Division

Defense Documentation Center
Cameron Station
Alexandria, Virginia 22314

GSFC - Goddard Space Flight Center
(see Scientific & Technical Information Facility)

HB

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

IEEE

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

JPRS

U.S. Department of Commerce
Clearinghouse for Federal Scientific and
Technical Information
Port Royal and Braddock Roads
Springfield, Virginia 22151

NASA

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

NavShips

Department of the Navy
Naval Ship Systems Command
Washington, D. C. 20360

NIC

Commander, Naval Intelligence Command
Naval Intelligence Command Headquarters
NIC-133E
Washington, D. C. 20350

NLL

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

NMS

Navy Medical School Library
National Naval Medical Center
Bethesda, Maryland 20014

NOO

U.S. Naval Oceanographic Office
Code 4400
Washington, D. C. 20390

NRL

Naval Research Laboratory
Washington, D. C. 20390

NTC

National Translation Center
John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ORNL - Oak Ridge National Laboratory (see AEC)

OSA

Optical Society of America, Incorporated
American Institute of Physics
335 West 45th Street
New York, New York 10017

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

Rand Corporation - (see NTC or CFSTI)

RSIC - Defense Documentation Center, Redstone
Scientific Information Center
(see CFSTI)

Sci & Tech Info Facility

NASA Scientific and Technical Information Facility
P.O. Box 33
College Park, Maryland
(see CFSTI)

UCRL - (see AEC)

USSR
Economic

1968 Western Petroleum Production Examined,
by B. Soskin, 7 pp.
RUSSIAN, per, Bakinskiy Rabochiy, Baku,
6 Mar 1969, p 3.
JPRS 47880

Problems of the Distribution of Production, by
V. A. Yemalichev, V. I. Kozlik, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk BSSR, Minsk,
Vol 12, No 10, 1968, pp 869-873.
JPRS 47763

Outmoded Methods Found in Nonferrous Metallurgy,
by M. Ul'yanov, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
Feb 1969, p 11.
JPRS 47720

Economic Reform in Light Industry Assessed,
by N. Volkov, M. Nazarov, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta,
Moscow, Feb 1969, p 15.
JPRS 47741

Rural Trade Services Need Improvement, by
A. Malkov, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 5, Jan 1969, p 23.
JPRS 47711

22d Session of CEMA Reviews Achievements, 10 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 5, Jan 1969, pp 41-42.
JPRS 47635

Suggested Nonferrous Metallurgy Reorganization,
by S. Vladin, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No
7, Feb 1969, p 16.
JPRS 47783

Shortages of "Sufficient" Consumer Goods Noted,
by M. Yulish, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, p 17.
JPRS 47670

Passenger Car Marketing, Service, Repair Problems
Examined, by A. Gulimov, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, p 20.
JPRS 47710

Sovkhoses: 50 Years of Development Recounted,
by F. Prutovikh, T. Yurkin, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, pp 30-31.
JPRS 47749

Revision of Sovkhoz Wage System Being Considered,
by V. Zhurikov, 9 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No 7,
Feb 1969, pp 32-33.
JPRS 47632

Economic Cooperation Among CEMA Members, 12 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, pp 42-43.
JPRS 47774

Industrial Basis for Domestic Services Urged,
by Ye. Karpova, 12 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 8, Feb 1969, pp 7-8.
JPRS 47774

Improved Material Supply Management in the Volga
Region, by V. Chebotarevskiy, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 8, Feb 1969, p 17.
JPRS 47773

New Control Measuring Instruments Described, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No 8,
Feb 1969, pp 34-35.
JPRS 47830

Technical Progress in Leningrad Discussed,
by L. Semenov, 7 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta,
Moscow, No 9, Feb 1969, p 6.
JPRS 47819

Volzhskiy Method of Calculation Commended, by
V. Sniryashkin, A. Meshkov, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 9, Feb 1969, p 14.
JPRS 47819

New System of Redistributing Savings Pro-
posed, by V. Bezdelev, M. Nikiforov, 8 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta,
Moscow, No 9, Feb 1969, p 23.
JPRS 47819

Work of Six CMEA Standing Commissions Discussed,
9 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, Feb
1969, pp 42-43.
JPRS 47670

Machine-Building Should be Specialized, by
M. Demchenko, 7 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 10, Mar 1969, p 16.
JPRS 47384

Need to Expand Crimean Health Resort Facilities,
by N. Kirichenko, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No
10, Mar 1969, p 20.
JPRS 47842

Crisis in Western Urals Supply Services, by
A. Gnidenko, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 10, Mar 1969, pp 22-23.
JPRS 47842

Plenum Discusses Industrial Reform of Far
East, by G. Khaliletskiy, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta,
Moscow, No 11, Mar 1969, p 7.
JPRS 47880

Article Discusses Hungarian-Soviet Trade,
by Jozsef Garam, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
14 Apr 1969, p 21.
JPRS 47915

New Instruction on Cataloging Industrial Equip-
ment, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 14, Apr 1969, p 22.
JPRS 47949

Optimum Ratios for Accumulation and Consumption,
by A. Zanegin, 15 pp.
RUSSIAN, per, Ekonomicheskiye Nauki, Moscow, Jan
1969, pp 23-31.
JPRS 47713

Falling Birthrate Threatens Manpower Shortage,
by D. Valenty, 9 pp.
RUSSIAN, rpt, Ekonomicheskiye Nauki, Moscow, 1
Jan 1969, pp 53-59.
JPRS 47708

CMEA Aid in Fuel, Electric Power Supply Traced,
by Ye. Smakova, 10 pp.
RUSSIAN, per, Ekonomicheskiye Nauki, Moscow,
No 1, 1969, pp 60-67.
JPRS 47837

Economic Aspects of Urbanization Cited,
by Ye. Ruzavina, 9 pp.
RUSSIAN, per, Ekonomicheskiye Nauki, Moscow,
No 2, Feb 1969, pp 41-47.
JPRS 47619

Compilation of Interbranch Balances Shown, by
E. P. Baranov, M. F. Bedenkov, 20 pp.
RUSSIAN, rpt, Ekonomika i Matematicheskiye Metody,
Moscow, Jan-Feb 1969, pp 120-132.
JPRS 47752

Problem of Migration of Capital Discussed, by
N. Berkov, 5 pp.
RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, Kiev,
No 11, 1968, pp 71-73.
JPRS 47713

Urban Sprawl Positively Assessed in Ukraine, by
A. Vishnevskiy, 8 pp.
RUSSIAN, per, Ekonomika Sovetskoy Ukrainy, Kiev,
No 11, 1968, pp 74-78.
JPRS 47713

New Estimate Norms and Prices for Construction,
7 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, Moscow,
Dec 1968, pp 3-7.
JPRS 47623

New Incentive System Cuts Oil-Drilling Costs,
by M. Kharimov, 5 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, Moscow,
No 3, 1969, pp 19-22.
JPRS 47907

Improvements Urged in Uzbek Cotton Prices, by
K. Popadyuk, 5 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, No 10,
1968, pp 18-20.
JPRS 47713

Results of Economic Reform in Uzbekistan Cited,
by V. Muratkhodzhayev, 5 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, No 12,
1968, pp 22-24.
JPRS 47842

USSR
Economic (Contd)

Idle Equipment Hinders Economic Development, by
F. Tokarev, V. Algayev', 7 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, No 12,
1968, pp 29-33.
JPRS 47842

Modernization of Industrial Equipment Discussed,
by Z. Kadyrov, 5 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, No 12,
1968, pp 41-42.
JPRS 47842

Economic Incentives Increased in Ukrainian
Power, by V. I. Masumov, 5 pp.
RUSSIAN, per, Energetika i Elektrifikatsiya,
Kiev, No 1, 1969, pp 3-5.
JPRS 47868

Profits Payments to Budget Vital to Reform, by
S. Miroshchenko, 10 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 3-8.
JPRS 47666

Local and Service Industry Tasks Described, by
V. Maslennikov, S. Kheyfets, 10 pp.
RUSSIAN, per, Finansy SSSR, Moscow, No 11, 1968,
pp 9-15.
JPRS 47670

Efficient Management Helps Reduce Overhead, by
O. Shapovalenko, 12 pp.
RUSSIAN, rpt, Finansy SSSR, Moscow, Nov 1968,
pp 19-23.
JPRS 47639

Theoretical Justification of Reform Given, by
I. Zlobin, 22 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 24-37.
JPRS 47666

Working Capital Sources Must be Balanced, by
V. Zaydenverg, 17 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 38-45.
JPRS 47666

Use of Incentive Funds in Trade Examined, by
Ye. Fonarev, 11 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 45-49.
JPRS 47666

USSR
Economic (Contd)

Book Reviewed on Development of Soviet Finances,
by A. Igando, 11 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 90-93.
JPRS 47666

Work of Ministry of Finance Board Reported, 7 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Nov 1968,
pp 94-96.
JPRS 47666

Tasks Outlined for State Insurance System, by
V. Dementsev, 11 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Dec 1968,
pp 7-14.
JPRS 47713

Proposals to Raise Income for RSFSR Budget, by
P. Os'kin, 13 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Dec 1968,
pp 15-23.
JPRS 47713

Use and Misuse of Marking Down Prices Discussed,
by V. Litrofancov, 8 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Dec 1968,
pp 28-32.
JPRS 47624

More Efficiency in Plant Payments Needed, by
V. Meyerovich, 10 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Dec 1968,
pp 45-59.
JPRS 47713

Repayment of Credits for Consumer Goods Output,
by V. Sorokin, 8 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Dec 1968,
pp 75-79.
JPRS 47713

Profit System in Soviet Local Industry Discussed,
by S. Kheyfets, 24 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Jan 1969,
pp 33-48.
JPRS 47670

New Financial Planning in Heavy Industry, by
M. Sherikh, 5 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Jan 1969,
pp 69-71.
JPRS 47706

USSR
Economic (Contd)

Local Food Plants to Use Incentive Funds, by V. Maslennikov, V. Prokopov, 11 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Jan 1969, pp 80-84.
JPRS 47624

Need to Consolidate Administration Discussed, by V. Shakhmanov, 7 pp.
RUSSIAN, per, Finansy SSSR, Moscow, No 2, 1969, pp 15-19.
JPRS 47881

Finances are Key to Improving Supply System, by V. Pavlov, 7 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 20-23.
JPRS 47819

Role of Profit in New Economic System Analyzed, by N. Garetsky, 23 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 26-40.
JPRS 47819

Wages-Productivity Relationship Discussed, by Z. Skopina, Ya. Fel'dman, 10 pp.
RUSSIAN, per, Finansy SSSR, Moscow, No 2, 1969, pp 41-47.
JPRS 47859

Transport Construction to Improve Amortization, by L. Mirushina, 8 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 53-57.
JPRS 47819

Public Organizations Involved in Insurance Sales, by L. Groysman, 5 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 59-60.
JPRS 47819

Kishinev Financial Bodies Help in Reform, by G. Tumanov, 7 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 66-68.
JPRS 47819

Effect of Assortment Shifts on Profit Discussed, by M. Litvin, 15 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 74-80.
JPRS 47819

USSR
Economic (Contd)

Book Reviewed on Industrial Cost Accounting, by P. Yefremov, 8 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 87-89.
JPRS 47819

Board Meeting of Ministry of Finance Reported, 7 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 92-94.
JPRS 47819

Board Meeting of Construction Bank Reported, 5 pp.
RUSSIAN, per, Finansy SSSR, Moscow, Feb 1969, pp 95-96.
JPRS 47819

Bonus Regulations for Industrial Workers Given, 9 pp.
RUSSIAN, rpt, Gosudarstvennyy Komitet Soveta Ministrov SSSR po Voprosam Truda i Zarabotnoy Platy -- Byulleten', Moscow, Jan 1969, pp 3-8.
JPRS 47720

Shortcomings in Sales System Discussed, by O. Iatsis, 6 pp.
RUSSIAN, np, Izvestiya, Moscow, 13 Feb 1969, p 2.
JPRS 47666

Trade Organizations Study Ways to Meet Consumer Needs, by G. Ustinov, 5 pp.
RUSSIAN, np, Izvestiya, Moscow, 1 Mar 1969, p 3.
JPRS 47837

Economic Reform and Labor Discipline Discussed, by V. Mikhaylov, 5 pp.
RUSSIAN, np, Izvestiya, Moscow, 7 Mar 1969, p 3.
JPRS 47750

Reserves of the National Economy in Operation, 10 pp.
RUSSIAN, per, Kommunist, Moscow, No 2, Jan 1969, pp 49-56.
JPRS 47736

Plan, Norms and Incentives, by A. Bachurin, 13 pp.
RUSSIAN, per, Kommunist, Moscow, No 2, Jan 1969, pp 57-67.
JPRS 47736

USSR
Economic (Contd)

Interbranch Industrial Production Ties
Discussed, by P. Kul'vets, 9 pp.
RUSSIAN, per, Kommunist, Vil'nyus, 3 Mar
1969, pp 21-27.
JPRS 47931

CEMA Countries Celebrate 20th Anniversary, by
A. Bykov, 9 pp.
RUSSIAN, rpt, Kommunist Vooruzhennykh Sil, Moscow,
Jan 1969, pp 33-38.
JPRS 47635

Need for Coordinated Supply Planning Stressed,
by B. Gruzdev, 5 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Jan 1969, pp 53-66.
JPRS 47666

Inventive Proposals for Supply System Outlined,
by V. Kurotchenko, 18 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Feb 1969, pp 12-22.
JPRS 47773

Territorial Planning Used in Supply System, by
A. Emdin, 10 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Feb 1969, pp 23-25.
JPRS 47773

Improvements Raised for Commodity Supply System,
by N. Reshetov, 9 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Feb 1969, pp 44-48.
JPRS 47773

Leningrad Oil Product Supply System Criticized,
by I. Zhukov, 7 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Feb 1969, pp 49-53.
JPRS 47773

Krasnoyarsk Supply System Reports Improvements,
by A. Gayevskiy, 9 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, Feb 1969, pp 55-60.
JPRS 47773

Preparation of All-Union Product Index Urged,
by V. Podymin, 6 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, No 2, 1969, pp 63-66.
JPRS 47773

USSR
Economic (Contd)

CEMA Tests More Efficient Tractor-Drawn Plows,
by E. Stepanyants, A. Shchetlov, 7 pp.
RUSSIAN, per, Mezhdunarodnyy Selskokhozyaystvennyy
Zhurnal, Moscow, No 6, 1968, pp 74-78.
JPRS 47670

Orthodox Marxist Analysis of Capitalism
Defended, by I. Sokolov, 19 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye
Otnosheniya, Moscow, Mar 1969,
pp 3-14.
JPRS 47931

Combined Method Given for Economic Forecasting,
by A. Shapiro, 18 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye
Otnosheniya, Moscow, Mar 1969,
pp 55-65.
JPRS 47931

Common Production Indices Sought for CEMA,
by I. Shanta, 5 pp.
RUSSIAN, per, Kyasnaya Industriya, Moscow,
Jan 1969, pp 24-26.
JPRS 47741

Single Bonus Distribution Scale Recommended, by
L. Geller, 8 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana,
Alma-Ata, 1968, pp 64-66.
JPRS 47623

General Review of Kazakh Development Given,
by K. Ketebayev, 16 pp.
RUSSIAN, per, Narodnoye Khozyaystvo
Kazakhstana, Alma-Ata, Jan 1969, pp 3-10.
JPRS 47880

Kazakh Finance Minister Analyzes 1969
Budget, by I. Kim, 11 pp.
RUSSIAN, per, Narodnoye Khozyaystvo
Kazakhstana, Alma-Ata, Jan 1969, pp 11-16.
JPRS 47880

Defects in Soviet Wage Statute are Discussed,
by P. Tomarovskiy, 9 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana,
Alma-Ata, No 1, 1969, pp 78-82.
JPRS 47930

Progress in Oil and Gas Industry Reviewed,
by P. Galonskiy, 11 pp.
RUSSIAN, per, Neftyanik, Moscow, No 1,
1969, pp 1-4.
JPRS 47742

USSR
Economic (Contd)

The Essence of the Economic Reform in the USSR,
by A. Birman, 28 pp.
RUSSIAN, per, Novyy Mir, Moscow, No 12, Dec 1968,
pp 185-204.
JPRS 47842

Views on Optimizing USSR Consumption Examined, by
V. Mayevskiy, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow, No 1,
1969, pp 21-31.
JPRS 47574

Norms for Increasing Incentive Funds Formulated,
by E. Bershchanskaya, 5 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow, No 1,
1969, pp 62-65.
JPRS 47666

Effective Incentives Needed to Improve Quality,
by N. Alpayev, 11 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow,
Feb 1969, pp 3-9.
JPRS 47721

Territorial Development Must be Better Balanced,
by M. Mazanova, 14 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow, Feb
1969, pp 10-18.
JPRS 47721

Commodity Planning Computerized in Ukraine, by
A. Grebnev, I. Rybchenko, 11 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow,
Feb 1969, pp 25-31.
JPRS 47711

Refinement of Profitability Index Proposed, by
N. Preobrazhanskaya, V. Valetov, 7 pp.
RUSSIAN, per, Planovoye Khozyaystvo, Moscow, Feb
1969, pp 54-57.
JPRS 47666

New Management Methods in CEMA Nations
Analyzed, by Ya. Kotkovskiy, L. Tarasov,
14 pp.
RUSSIAN, per, Politicheskoye Samoobrazovaniye,
Moscow, Feb 1969, pp 128-135.
JPRS 47881

Development of Trade is Discussed at Meeting,
by P. Chernushchenko, A. Krivel', 5 pp.
RUSSIAN, np, Pravda, Moscow, 4 Jan 1969, p 3.
JPRS 47624

USSR
Economic (Contd)

Economic Reform in Instrument-Building Ministry,
by K. N. Rudnev, 5 pp.
RUSSIAN, np, Pravda, Moscow, 9 Feb 1969, p 2.
JPRS 47710

Better Location of Latvian Industry Proposed,
by V. Parfenov, O. Ivanov, 5 pp.
RUSSIAN, np, Pravda, Moscow, 26 Feb 1969, p 2.
JPRS 47783

Improved Use of Latvian Manpower Proposed, by
V. Parfenov, O. Ivanov, 6 pp.
RUSSIAN, np, Pravda, Moscow, 27 Feb 1969, p 2.
JPRS 47783

Housing Construction Lag at Tol'yatti Noted, by
S. Bogatko, Ye. Man'ko, 5 pp.
RUSSIAN, np, Pravda, Moscow, 17 Mar 1969, p 2.
JPRS 47907

Scientists' Salaries Experiment Discussed,
5 pp.
RUSSIAN, np, Pravda, Moscow, 25 Mar 1969,
p 3.
JPRS 47930

Freight Turnover on Southern Railroad, by
G. Golovchenko, 5 pp.
RUSSIAN, np, Pravda Ukrainy, Kiev, 12 Feb 1969,
p 2.
JPRS 47711

Trawl Productivity, by V. A. Ioans. 50 pp.
RUSSIAN, bk, Proizvoditel'nost' trala, 1967.
*CFSTI TT 69-55094

Economic Reform in Belorussia Evaluated, by
A. P. Koloshin, 14 pp.
RUSSIAN, rpt, Promyshlennost' Belorussii, Minsk,
Jan 1969, pp 10-18.
JPRS 47721

Critical-Path Method Introduced in Belorussia,
by K. I. Gubinskiy, L. V. Fedulov, 6 pp.
RUSSIAN, rpt, Promyshlennost' Belorussii, Minsk,
Jan 1969, pp 19-22.
JPRS 47721

Effectiveness of Economic Sanctions Disputed,
by K. M. Il'ina, 5 pp.
RUSSIAN, rpt, Promyshlennost' Belorussii, Minsk,
Jan 1969, pp 26-28.
JPRS 47721

USSR
Economic (Contd)

Use of Economic Incentive Fund Discussed, by
R. Bogdan-Elakitnyy, O. Zinov'yeva, 13 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow, 22 Feb
1969, p 3.
JPRS 47752

Use of Models in Wage Planning Described, by
M. Lozneva, 13 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, Moscow, No
10, Oct 1968, pp 126-135.
JPRS 47633

Use of Economic Incentive Fund in Sovkhoz, by
A. Zabulayev, G. Rukosuyev, 8 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, Moscow,
No 1, Jan 1969, pp 27-31.
JPRS 47783

Sel'khoztekhnika Personnel Get New Bonuses, by
V. Alfer'yev, G. Pavlova, 5 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, Moscow,
No 1, Jan 1969, pp 32-34.
JPRS 47783

Labor Productivity Experiment Explained, by
Ya. Tolstikov, 5 pp.
RUSSIAN, np, Sovetskaya Estoniya, Tallin, 12 Feb
1969, p 2.
JPRS 47783

Prices Judged Key Economic Factor, by
A. Rozmanas, 5 pp.
RUSSIAN, np, Sovetskaya Estoniya, Tallin,
11 Mar 1969, p 2.
JPRS 47880

Estonian National Economic Problems Reviewed,
8 pp.
RUSSIAN, np, Sovetskaya Estoniya, Tallin,
18 Mar 1969, p 3.
JPRS 47931

Increase in Production Output Discussed,
by V. Lein, 8 pp.
RUSSIAN, np, Sovetskaya Letviya, Riga,
16 Feb 1969, p 1.
JPRS 47819

Technical Progress Needed in Latvian Production,
by F. Lekhtman, 5 pp.
RUSSIAN, np, Sovetskaya Letviya, Riga,
26 Feb 1969, p 2.
JPRS 47819

USSR
Economic (Contd)

Domestic Trade Prospects for 1969 Analyzed, by
A. Struyev, 11 pp.
RUSSIAN, per, Sovetskaya Torgovlya, Moscow, Jan
1969, pp 2-7.
JPRS 47774

Ways to Raise Profits in Retail Trade Discussed,
by I. Tsitovskiy, 5 pp.
RUSSIAN, np, Sovetskaya Torgovlya, Moscow, 4 Feb
1969, p 3.
JPRS 47670

Meeting Increased Demand for Consumer Goods
Studied, by G. Klimovich, 5 pp.
RUSSIAN, np, Sovetskaya Torgovlya, Moscow, 6 Mar
1969, p 2.
JPRS 47837

Amendments to Contracts for Services Urged,
by V. Skripko, 6 pp.
RUSSIAN, per, Sovetskaya Yustitsiya, Moscow, No 2,
Jan 1969, pp 16-17.
JPRS 47696

Temporary Demotion Found Effective Punishment,
by N. Gudinov, 8 pp.
RUSSIAN, per, Sovetskaya Yustitsiya, Moscow,
No 4, 1969, pp 13-14.
JPRS 47930

New Construction Norms and Prices Developed, by
V. Malyugin, 7 pp.
RUSSIAN, per, Stroitel'naya Gazeta, Moscow, 16
Feb 1969, pp 1-2.
JPRS 47902

Economic Reform Results at Wall-Material Plant,
by P. A. Mel'nichuk, A. G. Zinchenko, 5 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow,
No 2, 1969, pp 4-5.
JPRS 47902

Keramzit Industry Reserves, Development Trends,
5 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow,
No 2, 1969, pp 10-11.
JPRS 47902

Economic Analysis of Housing Renovation Presented,
by Ye. Ye. Klyushnichenko, 7 pp.
RUSSIAN, per, Stroitel'stvo i Arkhitektura, Kiev,
No 1, 1969, pp 10-11.
JPRS 47902

USSR
Economic (Contd)

Strengthening of Labor Discipline Proposed, by
V. Gudkov, 5 pp.
RUSSIAN, np, Trud, Moscow, 9 Mar 1969, p 2.
JPRS 47750

Fourth Decisive Year of Five-Year Period
Scanned, by P. F. Lomako, 8 pp.
RUSSIAN, per, Tsvetnyye Metally, Moscow,
Jan 1969, pp 1-5.
JPRS 47859

Nonferrous Metallurgy Operates Under New
System, 10 pp.
RUSSIAN, per, Tsvetnyye Metally, Moscow,
No 1, Jan 1969, pp 6-10.
JPRS 47859

Turkmen Industrial Progress in 1968 Reported,
8 pp.
RUSSIAN, np, Turkmeneskaya Iskra, Ashkhabad,
15 Mar 1969, p 2.
JPRS 47931

Technical-Industrial-Financial Plan for Coal,
by L. L. Mayzel', I. Sh. Pens, 6 pp.
RUSSIAN, per, Ugol', No 2, 1969, pp 12-15.
JPRS 47907

International Comparisons of Reserves Analyzed,
by T. Chernina, 14 pp.
RUSSIAN, rpt, Vestnik Statistiki, Moscow, Oct
1968, pp 35-45.
JPRS 47666

Decreases in Capital Expenditures Urged, by
Z. Korovina, G. Igol'nikov, 15 pp.
RUSSIAN, per, Vestnik Statistiki, Moscow, No 2,
1969, pp 18-28.
JPRS 47949

Maritime Transport's New Goals Discussed, by
V. Bakayev, 5 pp.
RUSSIAN, np, Vodnyy Transport, Moscow, 4 Feb 1969,
p 1.
JPRS 47711

Technical Progress Needs Incentive System, by
G. Anisimov, 20 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow, Nov
1968, pp 16-28.
JPRS 47639

USSR
Economic (Contd)

Improved Production Structure of Plants Urged,
by A. Vayn, 16 pp.
RUSSIAN, rpt, Voprosy Ekonomiki, Moscow, Jan 1969,
pp 14-25.
JPRS 47574

Results of New Economic System Praised, by
K. Skovoroda, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow, Jan 1969,
pp 26-33.
JPRS 47624

evaluation of Natural Resources Discussed, by
T. Khachaturov, 13 pp.
RUSSIAN, rpt, Voprosy Ekonomiki, Moscow, Jan 1969,
pp 66-74.
JPRS 47574

Effectiveness of Capital Investments Discussed,
by B. Rumer, L. Smyslyayeva, 12 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow, No 2,
1969, pp 61-70.
JPRS 47713

Wages of Kolchoz Leaders and Specialists Estab-
lished, by M. Ivan'kov, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow, Feb 1969,
pp 71-83.
JPRS 47832

Management Studies Need Better Methodology,
by S. Zhukov, 5 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow,
Feb 1969, pp 150-151.
JPRS 47819

Personal Services to the Population Discussed,
by V. Semin, 5 pp.
RUSSIAN, per, Zhiliishchnoye i Kommunal'noye
Khozvaystvo, Moscow, No 1, Jan 1969, pp 35-36.
JPRS 47696

Transport, Forwarding Agency Services Deplored,
by L. Ruta, V. Kotov, 5 pp.
UKRAINIAN, np, Radyanska Ukraina, Kiev,
2 Mar 1969, p 2.
JPRS 47881

USSR
Political

USSR
Political (Contd)

Local Meetings Held in Far East Oblasts,
7 pp.
RUSSIAN, rpt, Irkutsk Radio, 1100 GMT,
4 Mar 1969.
JPRS 47911

New Approach to Philosophy Study Urged, by
V. Bosenko, 5 pp.
RUSSIAN, np, Izvestiya, 4 Feb 1969, p 4.
JPRS 47726

Policies Proposed to Stir Student Initiative,
by V. Mil'ko, 5 pp.
RUSSIAN, np, Izvestiya, Moscow, 23 Feb 1969, p 3.
JPRS 47826

New Comintern Document, 12 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 3-12.
JPRS 47736

The Leninist Way to Socialism, by
A. Modogoyev, 13 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 13-23.
JPRS 47736

The Workers Class of the Capitalist Countries
Under the Conditions of the Scientific-
Technical Revolution, by N. Gauzner, 16 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 24-36.
JPRS 47736

The Topical Significance of the Leninist
Principles of Criticism of Fideism, by
V. Garadzha, 14 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 37-48.
JPRS 47736

A General Plan for Transforming the Nature
of Our Country is Needed, by I. Gerasimov,
14 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 68-79.
JPRS 47736

Transforming Siberia, by D. Konstantinovskiy,
10 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 80-87.
JPRS 47736

Marxism and the Anti-Marxist Essence of its
'Philosophy', by A. Rumyantsev, 20 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 91-106.
JPRS 47736

Greece in the Clutches of a Military
Dictatorship, by Tasos Fakiolas, 14 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 107-118.
JPRS 47736

The Moving Pages of the Annals of the Great
Fatherland War, by E. Boltin, 15 pp.
RUSSIAN, per, Kommunist, Moscow, No 2,
Jan 1969, pp 119-128.
JPRS 47736

New Comintern Documents, 16 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 3-4.
JPRS 47869

V. I. Lenin and the Building of the Soviet
Armed Forces, by A. A. Grechko, 16 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 15-26.
JPRS 47869

The Vitality of the Leninist Ideas on
Socialist Competition, by F. Golovchenko,
14 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 27-37.
JPRS 47869

A Turning Point in the History of the Workers'
Movement and the People of Germany, by
Gyunter Khorchanski, 7 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 38-43.
JPRS 47869

The Local Soviets and Life, by T. Sushkov,
14 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 55-66.
JPRS 47869

For Leninist Party Spirit in Elucidating the
History of the CPSU, by V. Golikov,
S. Murashov, 25 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 67-82.
JPRS 47869

USSR
Political (Contd)

The Problem of Life in the Modern Natural Sciences, by V. Engel'gardt, 15 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 83-95.
JPRS 47869

The Maoists are Revising the CCP General Line, by V. Sidikhmenov, 16 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 96-106.
JPRS 47869

The Defeat of the Right-Wing Social-Democratic Movement in the "Third World", by Ernst Genri, 16 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 107-120.
JPRS 47869

A Life Devoted to the Struggle for the Revolution, by Ya. Dvoretzkiy, 7 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 121-124.
JPRS 47869

Review of New Books, 5 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 125-128.
JPRS 47869

Party Leadership of the Economy Encouraged, by A. Snechkus, 12 pp.
RUSSIAN, per, Kommunist, Vil'nyus, Mar 1969,
pp 2-11.
JPRS 47911

Writer Defends Present Policies of CPSU, by M. Abdrakhmanov, 12 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow,
No 3, Feb 1969, pp 9-17.
JPRS 47726

Solid Support for Soviet Foreign Policy Urged, by V. Demidov, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow,
No 3, Feb 1969, pp 18-25.
JPRS 47726

To The Left of Common Sense (The Foreign Policy of the Mao Group), by M. S. Kapitsa, 139 pp.
RUSSIAN, bk, Leveye Zdravogo Smysla (O Vneshney Politike Gruppy Mao), Moscow,
1968, 192 pp.
JPRS 47873

USSR
Political (Contd)

Role of Working Class Ignored in Soviet Prose, 5 pp.
RUSSIAN, rpt, Literaturnaya Rossiya, Moscow, 18
Mar 1969, pp 6-7.
JPRS 47826

Bonchar Speaks at Ukrainian Writers Union, by Glas Bonchar, 6 pp.
RUSSIAN, rpt, Literaturnaya Gazeta, Moscow, 19 Feb
1969, p 12.
JPRS 47726

Ukrainian Prose Fails to Reflect Workers' Hero, by Leonid Kovichenko, 7 pp.
RUSSIAN, np, Literaturnaya Gazeta, Moscow, 26
Feb 1969, p 4.
JPRS 47726

Writer-Working Class Relationship Discussed, 14 pp.
RUSSIAN, rpt, Literaturnaya Rossiya, Moscow,
28 Feb 1969, pp 2-3.
JPRS 47726

Ideological Training for Scientists Urge . 5 pp.
RUSSIAN, np, Meditinskaya Gazeta, Moscow,
22 Nov 1968, p 1.
JPRS 47872

The Power of an Ideological Legacy, by E. Leybzun, 21 pp.
RUSSIAN, per, Virovaya Ekonomika i Mezhdunarodnyye Otnosheniya, Moscow, No 3, 1969, pp 15-30.
JPRS 47826

Literary Encyclopedia Has Ideological Errors, by Al. Dymshits, 8 pp.
RUSSIAN, per, Ugonek, Moscow, Dec 1968, pp 22-23.
JPRS 47826

Principles of people's Control Applied, by I. Shikin, 11 pp.
RUSSIAN, per, Partynaya Zhizn, Moscow, No 2,
1969, pp 8-15.
JPRS 47583

Socialist Consumption and Production Weighed, by V. Budarin, 12 pp.
RUSSIAN, per, Politicheskoye Somoobrazovaniye, Moscow, No 10, 1968, pp 20-28.
JPRS 47574

Party Admission Procedures Criticized, by
La Lakhno, 5 pp.
RUSSIAN, np, Pravda, Moscow, 30 Mar 1969,
p 2.
JPRS 47911

Volunteer People's Guard Units Evaluated, by
I. Timoshenko, 5 pp.
RUSSIAN, np, Sovetskaya Belorussiya, Minsk, 1 Mar
1969, p 1.
JPRS 47726

People's Control Work Important for Belorussia,
by A. Radyuk, 7 pp.
RUSSIAN, np, Sovetskaya Belorussiya, Minsk, 7
Mar 1969, p 2.
JPRS 47826

Party Leadership's Low Quality Attacked, by
P. Vilks, 11 pp.
RUSSIAN, np, Sovetskaya Latvija, Riga, 18 Feb
1969, pp 2-3.
JPRS 47765

Conference of Propagandists Held in Leningrad,
by S. Stepunina, 5 pp.
RUSSIAN, np, Sovetskaya Rossiya, Moscow,
6 Apr 1969, p 2.
JPRS 47911

Lenin's Views on Democracy, Contemporary Life,
by V. M. Chkhikvadze, 22 pp.
RUSSIAN, per, Sovetskoye Gusudarstvo i Pravo,
Moscow, No 1, 1969, pp 5-18.
JPRS 47726

Handbook for Propagandists and Agitators of
the Army and Navy, 181 pp.
RUSSIAN, bk, Spravochnik Propagandista i Agitatora
Armii i Flota, Moscow, 1968, pp 5-28, 61-276.
JPRS 47699

Resolutions of 16th All-Union Congress of
Therapists, 10 pp.
RUSSIAN, per, Terapevticheskiy Arkhiv,
Moscow, No 1, 1969, pp 122-126.
JPRS 47872

Revisionist Attack on Lenin's Ideas Scored,
7 pp.
RUSSIAN, per, Voprosy Istorii KPSS, Moscow,
Feb 1969, pp 13-17.
JPRS 47911

Western Acts Against Socialist Unity De-
nounced, by A. E. Ekshteyn, 8 pp.
RUSSIAN, per, Voprosy Istorii KPSS, Moscow,
Feb 1969, pp 117-121.
JPRS 47911

Khizhvanadze Addresses Georgian Rural Youth,
by V. R. Khizhvanadze, 8 pp.
RUSSIAN, rpt, Zarya Vostoka, Tbilisi, 22 Feb 1969,
pp 1-2.
JPRS 47726

Literary Critic Used in Light of Leninism, by
Leonid Novychenko, 4 pp.
UKRAINIAN, rpt, Literaturna Ukrayina, Kiev, 14
Feb 1969, pp 1-3.
JPRS 47826

Military

Camouflage in War , by Mikail Ivanovich
Tolochkov.
RUSSIAN, bk, 1958, pp 1-52.
*ACSI J-6292
*FSTC-HT-23-008-68

Press Chief Lists Forthcoming Military Books,
by A. Kopytin, 5 pp.
RUSSIAN, per, Knizhnoye Obozreniye, Moscow, No 8,
22 Feb 1969, pp 2, 4.
JPRS 47784

Army, Navy Komsomol Pledges on Lenin
Centennial, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil,
Moscow, No 24, Dec 1968, pp 9-13.
JPRS 47810

Military Discipline in Airborne Forces Discussed,
7 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil,
Moscow, No 24, Dec 1968, pp 41-45.
JPRS 47810

Shipboard Training of Young Officers
Described, by V. Tsvetko, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil,
Moscow, No 24, Dec 1968, pp 46-50.
JPRS 47810

USSR
Military (Contd)

Army, Navy Komsonol Prepare for Lenin Centennial, by V. Shishov, 6 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 24, Dec 1968, pp 68-71.
JPRS 47810

Party Political Work in MVD Internal Forces, by V. Kotov, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 1, Jan 1969, pp 44-48.
JPRS 47510

Role of Party Members as Leaders, Educators Shown, by F. Mazhayev, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 1, Jan 1969, pp 57-63.
JPRS 47810

Psychological Factors in Modern Warfare Weighed, by N. Tabunov, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 2, Jan 1969, pp 25-32.
JPRS 47667

Growth of Artillery and Missile Forces Cited, by K. P. Kazakov, 6 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 2, Jan 1969, pp 45-47.
JPRS 47667

The Soviet Officer Praised, Applauded, by K. Fayusov, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 2, Jan 1969, pp 48-52.
JPRS 47667

Commander of Long-Range Aviation Interviewed, by V. V. Keshetnikov, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 3, Feb 1969, pp 40-46.
JPRS 47727

New Simferopol' School Trains Political Workers, by Ya. Shevchenko, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 3, Feb 1969, pp 51-55.
JPRS 47727

Book Reviewed on Military Political Work, by A. Skozobtsev, 8 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 3, Feb 1969, pp 86-89.
JPRS 47727

USSR
Military (Contd)

Role of One-Man Command Explored, Explained, by M. Timofeyevich, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 4, Feb 1969, pp 12-19.
JPRS 47850

Development of Officers Discussed, Described, by A. Surchenko, 9 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 4, Feb 1969, pp 38-43.
JPRS 47850

Activities at Military-Political School Cited, by M. Zimenkov, 13 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 4, Feb 1969, pp 43-49.
JPRS 47850

Irregularities in Engineering Battalion Chided, by N. Voronov, 7 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, Moscow, No 4, Feb 1969, pp 50-53.
JPRS 47850

Value of Naval Repair Work at Sea Cited, by E. Kul'nitskiy, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 5 Feb 1969, p 2.
JPRS 47772

Training of Air Defense Personnel Discussed, by V. Yaroshenko, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 8 Feb 1969, p 2.
JPRS 47772

Importance of Psychological Training Stressed, by S. Somov, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 11 Feb 1969, p 2.
JPRS 47772

Psychological Training Needed in Air Force Units, by I. Vydrin, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 26 Feb 1969, p 2.
JPRS 47784

Openings for Officer Candidates Announced, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 27 Feb 1969, p 4.
JPRS 47784

USSR
Military (Contd)

Command Training Needed for Submarine Officers,
by I. Ivanov, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 1 Mar 1969,
p 2.
JPRS 47784

Role of Military Political Officers Discussed,
by F. Stepanenko, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 2 Mar 1969,
p 2.
JPRS 47784

Senior Pilots Criticized for Lax Air Safety, by
G. Dol'nikov, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 6 Mar 1969,
p 2.
JPRS 47784

Training of Inexperienced Soldiers Neglected,
by F. Semyanovskiy, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 6 Mar 1969,
p 2.
JPRS 47784

Strategic Missile Unit Training Described, by
V. Kazharskiy, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 11 Mar
1969, p 1.
JPRS 47772

School Training Stresses Moral Development, by
A. Ignat'yev, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 11 Mar
1969, p 2.
JPRS 47903

Pilots Cautioned on Taking Reasonable Risks, by
D. Vlasov, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 13 Mar 1969,
p 2.
JPRS 47903

Oversimplification in Training Criticized, by
S. Sviridov, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 15 Mar 1969,
p 2.
JPRS 47903

Reserve Officers Comment on Training Needs, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 19 Mar 1969,
p 2.
JPRS 47903

USSR
Military (Contd)

Close Work Needed Between Party Group and Command,
by S. Akhromeyev, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow, 21 Mar
1969, p 2.
JPRS 47903

Military Patriotic Training of Youth Discussed,
by V. Arkhipov, F. Khalturin, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, Moscow,
21 Mar 1969, p 4.
JPRS 47850

DOSAAF Prepares for Lenin's Birthday Centennial,
by A. Skvortsov, 7 pp.
RUSSIAN, per, Kryl'ya Rodiny, Moscow, No 2, 1969,
pp 2-4.
JPRS 47667

Moscow Aviation Institute Trains DOSAAF, by
I. Yermakov, 5 pp.
RUSSIAN, per, Kryl'ya Rodiny, Moscow, No 2, 1969,
pp 13-14.
JPRS 47667

Civil Defense Stressed as Common Concern, by
V. Chuykov, 8 pp.
RUSSIAN, per, Nauka i Zhizn', Moscow, No 1, 1969,
pp 43-47.
JPRS 47772

World War II Siege of Leningrad Recounted, by
K. A. Meretskov, 9 pp.
RUSSIAN, rpt, Ogonek, Moscow, 3 Jan 1969, pp 6-8.
JPRS 47667

Leninist Way Builds Powerful, Modern Armed
Force, by M. V. Zakharov, 7 pp.
RUSSIAN, per, Ogonek, Moscow, No 8, Feb 1969,
pp 5-6.
JPRS 47810

Warship Crew Gets Taste of Operating in
Tropics, 5 pp.
RUSSIAN, per, Ogonek, Moscow, No 8, Feb 1969,
pp 21-22.
JPRS 47810

Admiral Kuznetsov Reminiscences on World War II, by
N. G. Kuznetsov, 82 pp.
RUSSIAN, per, Okt'yabr', Moscow, No 12, 1968, pp 112-
166.
JPRS 47580

USSR
Military (Contd)

New Combat Equipment Details Changes in Training,
by N. Vasil'yev, 5 pp.
RUSSIAN, np, Pravda Ukrainy, Kiev, 23 Feb 1969,
p 2.
JPRS 47903

Soviet General Hails Improved Military Posture,
by M. Kalashnik, 5 pp.
RUSSIAN, np, Sovetskaya Belorussiya, Minsk, 23
Feb 1969, p 1.
JPRS 47903

Ocean Fleet. 6 pp.
RUSSIAN, per, Sovetskiy Voin, No 24, 1967,
pp 2-3.
AIR/FTD/HT-23-455-68

Submarine Crewmen Give Reasons for Reenlisting,
6 pp.
RUSSIAN, per, Starshina Serzhant, Moscow, No 2,
Feb 1969, pp 34-37.
JPRS 47667

Tanks in War: Modern Tanks and Nuclear Weapons,
by P. A. Rotavistov, 15 pp.
RUSSIAN, bk, Tanki na Voynе, 1968, pp 1-4, 59-77.
JPRS 47906

New Book Reappraises Battle of Stalingrad, by
I. Parot'kin, 8 pp.
RUSSIAN, per, Voyenno-Istoricheskiy Zhurnal,
Moscow, Feb 1969, pp 76-80.
JPRS 47903

Civil Defense Chief Outlines 1969 Program Tasks,
by V. I. Chuykov, 6 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, No 1,
Jan 1969, pp 2-3.
JPRS 47667

MSSR Civil Defense Propaganda Plan Examined, by
F. Rotar, D. Pan'yan, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, Mar 1969,
pp 12-13.
JPRS 47906

Civil Defense of Whole Latvian Rayon Tested,
by M. Maksimov, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, No 1,
Jan 1969, pp 18-19.
JPRS 47667

USSR
Military (Contd)

Gen. Gorchakov Speaks Out on Military Training,
by P. Gorchakov, 6 pp.
RUSSIAN, rpt, Voyennyye Znaniya, Moscow, Feb 1969,
pp 8-9.
JPRS 47831

Rural Civil Defense Exercises Reported, by
N. Alekseyenko, 5 pp.
RUSSIAN, rpt, Voyennyye Znaniya, Moscow, Feb
1969, pp 18-19.
JPRS 47831

Civil Defense Propaganda Stressed in Kazakhstan,
by S. Nurmagambetov, 7 pp.
RUSSIAN, rpt, Voyennyye Znaniya, Moscow, Feb
1969, pp 20-21.
JPRS 47831

Nuclear Submarine Requires Crew of Specialists,
by V. Yermolayev, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, Mar 1969,
pp 8-9.
JPRS 47906

CD Procedures in Contaminated Areas Described,
by A. Nebol'sin, S. Bachinin, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, Mar 1969,
pp 14-15.
JPRS 47906

Gen. Shuvyrin Proposes Improvements in Staff Work,
by D. Shuvyrin, 6 pp.
RUSSIAN, rpt, Voyennyye Znaniya, Moscow, Feb 1969,
pp 16-18.
JPRS 47831

Technique of CD Training by Television Discussed,
by K. Kotlukov, 5 pp.
RUSSIAN, per, Voyennyye Znaniya, Moscow, Mar 1969,
pp 20-21.
JPRS 47906

On Board the USSR Ship "Blagorodniy", by
Franco Prattico, 7 pp.
ITALIAN, np, Vie Nuove, Rome, 30 Jan 1969, p 19;
6 Feb 1969, pp 18-22.
JPRS 47772

Film 'Brothers Karamazov' Favorably Reviewed,
by M. Gus, 6 pp.
RUSSIAN, np, Izvestiya, 20 Feb 1969, p 5.
JPRS 47825

Sociological Research Defended by Shchedrovitskiy,
by G. Shchedrovitskiy, 6 pp.
RUSSIAN, np, Literaturnaya Gazeta, Moscow, 6 Feb
1969, p 10.
JPRS 47765

Educational Role of Soviet Literature Defined,
by A. Kamshalov, 9 pp.
RUSSIAN, per, Literaturnaya Rossiya, Moscow,
28 Mar 1969, pp 4-5.
JPRS 47911

Operation of Night Schools Must be Improved,
by N. Balov, 16 pp.
RUSSIAN, per, Narodnoye Obrazovaniye, Moscow,
No 1, 1969, pp 77-82.
JPRS 47826

Education Ministry Charges Waste of School Time,
6 pp.
RUSSIAN, per, Narodnoye Obrazovaniye, Moscow,
No 1, 1969, pp 118-119.
JPRS 47826

Critics' Appraisal of Early Soviet Literature
Scored, by P. Vykhodtsev, 5 pp.
RUSSIAN, np, Pravda, Moscow, 17 Feb 1969, p 3.
JPRS 47726

Karakulpak Literature and Art Week Opened,
6 pp.
RUSSIAN, np, Pravda Vostoka, Tashkent,
4 Mar 1969, p 1.
JPRS 47911

Vocational-Technical Training in 1969 Described,
by A. A. Bulgakov, 5 pp.
RUSSIAN, np, Professional'no-Tekhnicheskoye
Obrazovaniye, Moscow, No 1, 1969, pp 1-2.
JPRS 47726

Local Soviets and Legislation on Religious
Cults, by Yu. Rimaytis, 6 pp.
RUSSIAN, np, Sovetskaya Molva, Vil'nyus,
27 Mar 1969, p 2.
JPRS 47911

Conditions in Student Dormitory Criticized, by
P. Dobrobaba, 5 pp.
RUSSIAN, np, Sovetskaya Mos-tiya, Moscow, 28 Feb
1969, p 3.
JPRS 47765

Demands Voiced for Stricter Maritime Law, by
A. D. Deylin, 10 pp.
RUSSIAN, rpt, Sovetskoye Gosudarstvo i Pravo,
Moscow, Jan 1969, pp 88-92.
JPRS 47726

Statistics Given on Soviet Juvenile Delinquency,
by B. S. Vorontsov, 12 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo,
Moscow, No 3, Mar 1969, pp 103-108.
JPRS 47911

Network Schedules Used in Learning Process,
by I. N. Kligman, A. D. Chis'kov, 6 pp.
RUSSIAN, per, Sredneye Spetsial'noye
Obrazovaniye, Moscow, No 2, 1969, pp 11-13.
JPRS 47911

Strengthening of Labor Discipline Urged,
by V. Kulikov, 5 pp.
RUSSIAN, np, Trud, Moscow, 30 Jan 1969, p 2.
JPRS 47742

Improvements in Secondary Education Discussed,
6 pp.
RUSSIAN, np, Trud, Moscow, 16 Feb 1969, p 2.
JPRS 47726

Academic Lag in Ukrain's Schools Reduced, by
Ye. S. Bereznyak, 7 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, Moscow, 11
Feb 1969, pp 1, 2.
JPRS 47726

Ukrainian Vocational Training Criticized, by
L. Frolov, V. Zalivadnyy, 5 pp.
RUSSIAN, np, Uchitel'skaya Gazeta, Moscow, 18
Jan 1969, p 4.
JPRS 47726

Evening Schools Mark 25th Anniversary,
by M. A. Prokof'iyev, 5 pp.
RUSSIAN, per, Vechernyaya Srednyaya Shkola, Moscow,
No 6, 1968, pp 5-8.
JPRS 47726

USSR
Sociological (Contd)

Work of All-Union Meeting of Statisticians, by
A. Levashov, 14 pp.
RUSSIAN, per, Vestnik Statistiki, Moscow, Mar
1969, pp 17-26.
JPRS 47949

Statistics on USSR Population for 1966-1967
Cited, 28 pp.
RUSSIAN, per, Vestnik Statistiki, Moscow, No 2,
1969, pp 80-96.
JPRS 47949

Present State of Working Class Analyzed, by
S. L. Senyavskiy, 25 pp.
RUSSIAN, per, Voprosy Istorii, Moscow, Feb 1969,
pp 3-18.
JPRS 47907

Observer Criticizes Ukrainian 'Poster Art', by
borys Butnyk-Sivers'kyy, 5 pp.
UKRAINIAN, per, Literaturna Ukrayina, Kiev, 7
Feb 1969, pp 1-2.
JPRS 47726

Choice of Jobs and Vocational Guidance in USSR,
by Thomas Kussmann, 19 pp.
GERMAN, per, Osteuropa Wirtschaft, Stuttgart,
No 4, Dec 1968, pp 296-310.
JPRS 47720

EASTERN EUROPE
Economic

Statistics on Women Workers Contributions
Given, by Eleni Pashko, 5 pp.
ALBANIAN, per, Bashkimi, Tirana, 5 Feb 1969,
pp 2-3.
JPRS 47817

Technical-Scientific Revolution Essential for
Progress, by Abdyl Kallerzi, 9 pp.
ALBANIAN, np, Zeri i Popullit, Tirana, 27 Feb
1969, pp 3, 4.
JPRS 47888

Eastern Europe
Economic (Contd)

Bulgarian Overall Accomplishments Described, by
Stanoy Tasev, 7 pp.
BULGARIAN, per, Bulgarski Profsoyuzi, Sofia, No 3,
Mar 1969, pp 3-6.
JPRS 47961

Order on Creation of Special Funds Issued, 11 pp.
BULGARIAN, per, Durzhaven Vestnik, Sofia, No 21,
14 Mar 1969, pp 1-4.
JPRS 47825

Present, Future Changes in Wage System Discussed,
by Ivan Iliev, 14 pp.
BULGARIAN, per, Ikonomicheska Misul, Sofia, No 10,
1968, pp 3-14.
JPRS 47951

New Bulgarian Customs Tariffs Interpreted, by
Dimitur Bazhdarov, 7 pp.
BULGARIAN, per, Ikonomicheska Misul, Sofia, No 1,
Jan 1969, pp 3-8.
JPRS 47716

Production Trends in Canning Industry Described,
by Panayot Daskalov, 17 pp.
BULGARIAN, per, Ikonomicheska Misul, Sofia, No 1,
Jan 1969, pp 22-34.
JPRS 47716

Twenty Years of CEMA Development Described, 16 pp.
BULGARIAN, per, Naruchnik na Agitatora, Sofia,
No 1-2, Jan 1969, pp 47-64.
JPRS 47579

CEMA Influence on World Politics Described, by
Evtim Timov, 5 pp.
BULGARIAN, per, Naruchnik na Agitatora, Sofia,
No 1-2, Jan 1969, pp 73-78.
JPRS 47579

Information on CEMA Activities Provided, 6 pp.
BULGARIAN, per, Naruchnik na Agitatora, Sofia,
No 1-2, Jan 1969, pp 87-90.
JPRS 47579

Export of Bulgarian Chemicals Reviewed, by
Miladin Kolev, 5 pp.
BULGARIAN, per, Vunshna Turgoviya, Sofia, No 2,
Feb 1969, pp 2-4.
JPRS 47825

Eastern Europe
Economic (Contd)

Working Women Encounter Many Problems, by
Vlasta Brabcova, 8 pp.
CZECH, per, Ekonomicka Revue, Prague, Jan 1969,
pp 33-38.
JPRS 47706

More Effective Economic Analysis Called for, by
Jaroslav Krejci, 6 pp.
CZECH, np, Hospodarske Noviny, Prague, 4 Oct 1968,
p 3.
JPRS 47579

High Turnover at Vitkovice Ironworks Deplored,
by Frantisek Soukup, 9 pp.
CZECH, rpt, Hospodarske Noviny, Prague, 3 Jan
1969, pp 8-9.
JPRS 47579

Report on 1968 Economic Results Presented, 31 pp.
CZECH, np, Hospodarske Noviny, Prague, 7 Feb 1969.
JPRS 47804

Hamouz Analyzes Problems in CEMA Relations,
11 pp.
CZECH, per, Hospodarske Noviny, Prague,
7 Mar 1969, pp 1, 10, 11.
JPRS 47915

Economic Development of Prague Discussed,
by Jan Formanek, 7 pp.
CZECH, per, Hospodarske Noviny, Prague,
7 Mar 1969, p 9.
JPRS 47915

Significance of New Economic Law Discussed, 9 pp.
CZECH, per, Hospodarske Noviny, Prague, No 11,
14 Mar 1969, p 3.
JPRS/ 47825

Skoda Policy on Performance Rating Examined,
by Frantisek Jakl, 5 pp.
CZECH, per, Hospodarske Noviny, Prague,
4 Apr 1969, p 7.
JPRS 47915

CEMA Members Confer on Financial Affairs,
by Karel Houska, 5 pp.
CZECH, per, Hospodarske Noviny, Prague,
4 Apr 1969, pp 10-11.
JPRS 47915

Eastern Europe
Economic (Contd)

Problems Involved in Eliminating Monopolies,
by Otakar Krofta, 15 pp.
CZECH, per, Hospodarstvi a Pravo, Prague, Oct
1968, pp 40-48.
JPRS 47844

Economic Relations with Europe Reviewed, by
Vladimir Tomas, 12 pp.
CZECH, per, Mezinarodni Vztahy, Prague, No 4,
1968, pp 10-18.
JPRS 47888

Monetary Relations Within Bloc Discussed, by
Cestmir Konecny, 12 pp.
CZECH, per, Nova Mysl, Prague, Feb 1969, pp 203-
212.
JPRS 47804

Soviet-Czechoslovak Trade Prospects Reviewed,
by A. P. Yefimov, 6 pp.
CZECH, rpt, Noviny Zahranicniho Otcchodu, Prague,
22 Jan 1969, pp 1-2.
JPRS 47706

Poor Quality, Shortages Plague Consumer Goods
Industry, 6 pp.
CZECH, rpt, Politika, Prague, 6 Mar 1969, pp 31-33.
JPRS 47825

Minister Luptak Analyzes Slovak National Income,
by S. Luptak, 6 pp.
SLOVAK, np, Pravda, Bratislava, 5 Mar 1969, p 4.
JPRS 47730

Communist Party's Youthfulness Discussed, by
Lydia Brabcova, 7 pp.
SLOVAK, np, Pravda, Bratislava, 11 Apr 1969,
pp 12-13.
JPRS 47946

Locomotive Workers Denied Union Status, by
Rene Fruehauf, 5 pp.
CZECH, np, Rude Pravo, Prague, 24 Feb 1969,
p 2.
JPRS 47723

Czechoslovak Economy Needs Hard Currency Koruna,
by Karel Houska, 5 pp.
CZECH, np, Rude Pravo, Prague, 29 Mar 1969,
supplement pp 1, 3.
JPRS 47888

Eastern Europe
Economic (Contd)

Rigid Management Hampers Economic Reform, by J. Junažovec, 5 pp.
SLOVAK, np, Smena, Bratislava, 25 Mar 1969, p 5.
JPRS 47825

Changes Planned in Foreign Exchange Procedure, by Jaromir Zahradnik, 8 pp.
CZECH, per, Zahranicni Obchod, Prague, No 1, Jan 1969, pp 3-4.
JPRS 47766

New Banking System to be Established, by Jiri Danecek, 12 pp.
CZECH, per, Zahranicni Obchod, Prague, No 2, Feb 1969, pp 8-11.
JPRS 47825

West Source Evaluates New GDR Pension Law, by Wilhelm Homann, 14 pp.
GERMAN, rpt, Deutschland-Archiv, Cologne, Jan 1969, pp 10-19.
JPRS 47697

Role of Market Under Socialism Examined, by Harry Nick, 7 pp.
GERMAN, per, Einheit, East Berlin, Jan 1969, pp 31-36.
JPRS 47697

GDR Energy Industry Needs USSR, Bloc Cooperation, by K. Birl, 9 pp.
GERMAN, per, Energietechnik, Leipzig, Vol 19, No 2, Feb 1969, pp 49-52.
JPRS 47909

Decree on Public Employees' Rights, Duties Issued, 15 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, East Berlin, Part 2, No 26, 26 Mar 1969, pp 163-169.
JPRS 47946

The Mining Supply Industry at the Hannover Fair in 1967, by R. Helge Bachstroem, 53 pp.
GERMAN, per, Gluckauf, Vol 103, 1967, pp 713-731.
AEC/ORNL/Tr-2082-69

Economic Aspects of Czechoslovak Crisis Examined, by Hans Raupach, Joern Keck, 21 pp.
GERMAN, per, Osteuropa Wirtschaft, Stuttgart, No 4, Dec 1968, pp 257-272.
JPRS 47766

Eastern Europe
Economic (Contd)

Foreign Trade Ministry Examines Own Current Tasks, by H. Weiss, 7 pp.
GERMAN, per, Sozialistische Ausenwirtschaft, East Berlin, Jan 1969, pp 1-3.
JPRS 47804

Suggestions for Increasing the Efficiency of Cold Tandem Mills, by F. J. Lenze.
GERMAN, per, Stahl Eisen, Vol 87, 13 July 1967, pp 825-833.
*RISI 7151

Price Projections Titled Vital to 1971-1975 Plan, by Wolfgang Zuhle, 11 pp.
GERMAN, per, Vertragssystem, East Berlin, Mar 1969, pp 132-136.
JPRS 47951

1969-70 Tasks for Accounting and Statistics Given, by Joachim Funke, 17 pp.
GERMAN, per, Die Wirtschaft, East Berlin, 2 Jan 1969, pp 3-8.
JPRS 47737

Standardization of Primary Documents Needed, by Joachim Funke, 5 pp.
GERMAN, np, Die Wirtschaft, East Berlin, 13 Feb 1969, p 13.
JPRS 47730

Various Countries Discuss CMEA Planning Crisis, by Hansjakob Stehle, 7 pp.
GERMAN, per, Die Zeit, Hamburg, No 2, 14 Feb 1969, p 58.
JPRS 47774

Development of Commensurate Wage Rates Discussed, by Arpad Glajos, 7 pp.
HUNGARIAN, np, Figyelo, Budapest, 26 Feb 1969, p 3.
JPRS 47756

Foreign Trade's Aid to Chemical Progress Noted, by Erno Barakozsi, 20 pp.
HUNGARIAN, per, Idargazdasag, Budapest, Jan 1969, pp 1-8.
JPRS 47951

Results of Economic Reform Program Examined, by Istvan Dobos, 12 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, Budapest, Jan 1969, pp 1-9.
JPRS 47737

Transportation Tariff Reform Analyzed, by
Istvan Kaplan, 9 pp.
HUNGARIAN, rpt, Kozlekedesi Kozlony, Budapest,
16 Feb 1969, pp 144-147.
JPRS 47756

1968 Wage Policies of Enterprises Criticized, by
Karoly Macsari, 5 pp.
HUNGARIAN, per, Munka, Budapest, No 2, 1969,
pp 20-21.
JPRS 47766

Reasons for 1969 Labor Policy Changes Discussed,
by Istvan Buda, 11 pp.
HUNGARIAN, per, Munkaugyi Szemle, Budapest, Jan
1969, pp 1-5.
JPRS 47844

Party's Role in the Economy Discussed, by
Pala Mary, 10 pp.
HUNGARIAN, rpt, Partalet, Budapest, Feb 1969,
pp 17-23.
JPRS 47706

Changes in Economic Planning System Noted, by
Imre Pardi, 10 pp.
HUNGARIAN, per, Partalet, Budapest, Mar 1969,
pp 38-44.
JPRS 47844

Trends in National Income, Living Standard Noted,
by Janos Arvay, 19 pp.
HUNGARIAN, per, Statistikai Szemle, Budapest,
Feb 1969, pp 115-137.
JPRS 47844

Problems of Enterprise Management Discussed,
by Otto Pirityi, 8 pp.
HUNGARIAN, per, Tarsadalmi Szemle, Budapest,
No 3, 1969, pp 70-74.
JPRS 47844

CEMA International Bank Achievements Reviewed,
by Andrzej Dorosz, 8 pp.
POLISH, per, Handel Zagraniczny, Warsaw,
No 2, Feb 1969, pp 88-91.
JPRS 47909

Debate Arises on Regulating Economic Risk,
by Walerian Sanetra, 5 pp.
POLISH, per, Prawo i Zycie, Warsaw, 23 Mar
1969, pp 1, 7.
JPRS 47909

Standardisation, Cooperation in CEMA Bloc Out-
lined, 5 pp.
POLISH, np, Rynki Zagraniczne, Warsaw, 25 Feb
1969, p 3.
JPRS/47825

Polish, Italian Trade Turnover Problems Discussed,
by J. Szarski, 6 pp.
POLISH, np, Rynki Zagraniczne, Warsaw, 8 Mar 1969,
pp 3, 7.
JPRS 47844

Joint Investments of CEMA Bloc Discussed,
by Franciszek Kubiczek, 10 pp.
POLISH, per, Rynki Zagraniczne, Warsaw,
18 Mar 1969, pp 3, 7.
JPRS 47909

Lewinski Reports on 1968 Railroad Achieve-
ments, by Piotr Lewinski, 8 pp.
POLISH, per, Sygnały, Warsaw, 5-12 Jan 1969,
pp 1, 2.
JPRS 47737

Bulandra Reviews Past, Future Coal Exports,
by Leopold Bulandra, 5 pp.
POLISH, np, Trybuna Ludu, Warsaw, 9 Feb 1969, p 5.
JPRS 47579

Politburo Report on 1971-1975 Economic Plan,
38 pp.
POLISH, per, Trybuna Ludu, Warsaw, 5-7 Apr
1969, pp 3-5.
JPRS 47915

Labor Goals for Dolny Slask Mines Cited, 14 pp.
POLISH, rpt, Wladomosci Gornicze, Katowice, Feb
1969, pp 45-51.
JPRS 47937

Majewski Reviews 1969 Tasks of Banks in
Economy, by Stanislaw Majewski, 10 pp.
POLISH, per, Wladomosci Narodowego Banku
Polskiego, Warsaw, Jan 1969, pp 1-5.
JPRS 47737

1969 Basic Tasks of Investment Bank Discussed,
by Edward Meisner, 10 pp.
POLISH, per, Wladomosci Narodowego Banku
Polskiego, Warsaw, Feb 1969, pp 49-53.
JPRS 47882

Eastern Europe
Economic (Contd)

Urban Scores lax Attitude Toward Investments,
by Jerzy Urban, 12 pp.
POLISH, per, Zycie Gospodarcze, Warsaw, No 8,
23 Feb 1969, p 5.
JPRS 47716

Weber Criticizes Investments in Tire Plant,
by Henryk Weber, 12 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 9 Mar
1969, p 3.
JPRS 47825

Machine, Equipment Expansion Rate Reviewed,
by Czeslaw Zolkiewski, 12 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 9 Mar
1969, p 5.
JPRS 47825

Wider Scope, More Duties for Foreign Trade Cited,
by Jozef Rowicki, 6 pp.
POLISH, per, Zycie Gospodarcze, Warsaw, No 10,
9 Mar 1969, p 9.
JPRS 47825

Proper Machine, Equipment Maintenance Stressed,
by Czeslaw Zolkiewski, 11 pp.
POLISH, per, Zycie Gospodarcze, Warsaw,
No 11, 16 Mar 1969, p 8.
JPRS 47882

Integration of Investment Planning Spheres Urged,
by M. Niedziela, J. Lewalski, 7 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 23 Mar
1969, p 9.
JPRS 47844

Wolowczyk Comments on Financing of Investments,
by Arkadiusz Wolowczyk, 11 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 23 Mar
1969, pp 1-2.
JPRS 47888

Pisarski Evaluates Present Economic Situation,
by Grzegorz Pisarski, 7 pp.
POLISH, np, Zycie Gospodarcze, Warsaw,
23 Mar 1969, p 3.
JPRS 47882

Law of Value in Socialist System Defended, by
Mieczyslaw Mieszczankowski, 9 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 23 Mar
1969, p 6.
JPRS 47888

Eastern Europe
Economic (Contd)

Financial Situation of State Farms Presented,
by Boleslaw Filipiak, 9 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 23 Mar
1969, p 8.
JPRS 47844

Investment Planning Indexes, Limits Outlined,
by T. Kierczynski, U. Wojciechowska, 11 pp.
POLISH, per, Zycie Gospodarcze, Warsaw,
30 Mar 1969, pp 1-2.
JPRS 47882

Greater Improvement in Work Incentives Asked,
by Wacław Grzybowski, 6 pp.
POLISH, np, Zycie Gospodarcze, Warsaw,
30 Mar 1969, p 6.
JPRS 47909

Foreign Exchange and Precious Metals Regulations,
6 pp.
RUMANIAN, rpt, Buletinul Oficial al Republicii
Socialiste Romania, Bucharest, Part 1, 30 Jan 1969,
pp 117-118.
JPRS 47766

Construction Work Must be Made Profitable,
by Ion Mocanu, 10 pp.
RUMANIAN, per, Finante si Credit, Bucharest, No 1,
Jan 1969, pp 14-22.
JPRS 47716

Top Prices Must be Demanded for Exports, by
Stefan Manastieanu, 11 pp.
RUMANIAN, per, Finanti si Credit, Bucharest, No 1,
Jan 1969, pp 23-32.
JPRS 47716

More Financial Controls Needed to Enhance Growth,
by Virgil Pirvu, 14 pp.
RUMANIAN, per, Finante si Credit, Bucharest,
No 2, Feb 1969, pp 7-19.
JPRS 47951

Current Role, Tasks of Financial System Defined,
by Virgil Pirvu, 21 pp.
RUMANIAN, np, Gazeta Finantelor, Bucharest, 5 Feb
1969, pp 1, 2, 4, 5.
JPRS 47756

Rumania's Role in Economic Cooperation Upheld,
by Ion Cimpeanu, 9 pp.
RUMANIAN, rpt, Lumea, Bucharest, 20 Feb 1969,
pp 4-6.
JPRS 47937

Eastern Europe
Economic (Contd)

Development of Rumanian Foreign Trade Traced,
by Octavian Ciulea, Marina Rudeanu, 13 pp.
RUMANIAN, rpt, Lupta de Clasa, Bucharest, Dec
1968, pp 59-67.
JPRS 47766

Growth of Real Wages in Rumania Described,
by Niculae Alexe, 12 pp.
RUMANIAN, per, Lupta de Clasa, Bucharest, Jan
1969, pp 89-96.
JPRS 47706

Rumanian Social Outlays Raise Living Standard,
by Ion Tulpan, 13 pp.
RUMANIAN, per, Probleme Economice, Bucharest, Jan
1969, pp 3-13.
JPRS 47697

Twenty Years of CEMA Activities Reviewed, by
Radu Constantinescu, 14 pp.
RUMANIAN, rpt, Probleme Economice, Bucharest, Jan
1969, pp 70-82.
JPRS 47766

Foreign Trade Leads to Industrial Cooperation,
by Mihail Levante, N. N. Constantinescu, 10 pp.
RUMANIAN, rpt, Probleme Economice, Bucharest,
Jan 1969, pp 83-90.
JPRS 47766

Growth of Machine Building Industry, 1965-1968,
by Mihail Marinescu, 5 pp.
RUMANIAN, Viata Economica, Bucharest, 31 Jan 1968,
pp 3, 4.
JPRS 47579

International Economic Cooperation Discussed, by
M. Zara, 7 pp.
RUMANIAN, np, Viata Economica, Bucharest, 31 Jan
1969, p 12.
JPRS 47579

Plan Coordination is Key to CEMA Collaboration,
by Sterian Gheorghiu, 8 pp.
RUMANIAN, rpt, Viata Economica, Bucharest, 14 Feb
1969, pp 13, 18.
JPRS 47579

Importance of Social Consumption Funds Discussed,
by Vasile Voleseniuc, 5 pp.
RUMANIAN, rpt, Viata Economica, Bucharest, 28
Feb 1969, pp 3, 6.
JPRS 47716

Eastern Europe
Economic (Contd)

Use of Loans by Cooperative Farms Criticised,
by Ion Rusinaru, 5 pp.
RUMANIAN, np, Viata Economica, Bucharest, 7 Mar
1969, p 7.
JPRS 47804

Rumania's Trade with Socialist Countries,
by N. Fodor, 7 pp.
RUMANIAN, np, Viata Economica, Bucharest,
14 Mar 1969, p 13.
JPRS 47844

Regulations on Private Enterprise Explained, by
Josip Garvan, 10 pp.
SERBO-CROATIAN, per, Nova Trgovina, Belgrade,
1968, pp 536-540.
JPRS 47888

Disproportions in Economic Growth Deepening,
by Radule Sekulic, 11 pp.
SERBO-CROATIAN, per, Pregled, Sarajevo, Feb 1969,
pp 209-218.
JPRS 47946

Higher Tariffs Proposed by Lead, Zinc Industry,
by J. Markovic, 9 pp.
SERBO-CROATIAN, np, Privredni Pregled, Belgrade,
22 Jan 1969, p 4; 23 Jan 1969, p 2.
JPRS 47579

Economy Responds to Reform by Modernizing,
by Ljubo Brkanovic, 8 pp.
SERBO-CROATIAN, np, Privredni Pregled,
Belgrade, 2 Apr 1969, p 2; 3 Apr 1969, p 2.
JPRS 47909

Full Affirmation of Foreign Credit Fund Urged,
by Milos Zivancevic, 16 pp.
SERBO-CROATIAN, per, Problemi Spoljne Trgovine
i Konjunktura, Belgrade, No 3, July, Aug, Sept
1968, pp 246-261.
JPRS 47579

Foreign Enterprises Attracted for Economic Reasons,
by Miljko Trifunovic, 7 pp.
SERBO-CROATIAN, per, Problemi Spoljne Trgovine
i Konjunktura, Belgrade, No 3, July, Aug, Sept
1968, pp 292-298.
JPRS 47579

64 Lay Judges Chosen for Supreme Economic Court,
5 pp.
SERBO-CROATIAN, per, Sluzbeni List SFRJ, Belgrade,
No 10, 6 Mar 1969, pp 321-322.
JPRS 47946

Transportation Policies for 1969 Proposed,
by Steven Mihailovic, 5 pp.
SERBO-CROATIAN, per, Transport, Belgrade,
Jan 1969, pp 3-5.
JPRS 47737

Firms Lack Foreign Exchange for Joint Investments,
by M. Gavrovic, 5 pp.
SERBO-CROATIAN, np, Vjesnik u Srijedu, Zagreb,
12 Mar 1969, p 3.
JPRS 47730

Role of Yugoslav Railroads in the Economy, by
Vanja Vranjican, 11 pp.
SERBO-CROATIAN, per, Železnice, No 1, Jan 1969,
pp 7-12.
JPRS 47716

Political

WIDE Accused of Serving Soviet-U.S. Alliance,
5 pp.
ALBANIAN, per, Shqiptaria e Re, Tirana, No 1,
Jan 1969, pp 26-27.
JPRS 47663

CPI Congress Promotes Integration With Bourgeoisie,
8 pp.
ALBANIAN, np, Zeri i Popullit, Tirana, 1969.
JPRS 47,663

Aspects of the Class Struggle Discussed,
by Xhelil Gjoni, 5 pp.
ALBANIAN, np, Zeri i Popullit, Tirana,
24 Jan 1969, pp 2, 3.
JPRS 47877

Re-Evaluation of Teachers' Concepts Needed,
by Hamit Beqja, 6 pp.
ALBANIAN, np, Zeri i Popullit, Tirana,
12 Feb 1969, p 3.
JPRS 47858

Necessity of Fighting Technocracy Stressed,
by Vangjush Garbeta, 8 pp.
ALBANIAN, per, Zeri i Popullit, Tirana,
14 Feb 1969, pp 2-3.
JPRS 47817

Party Congress Attack on Revisionism Recalled,
by Vangjel Moisiu, 6 pp.
ALBANIAN, per, Zeri i Popullit, Tirana,
18 Feb 1969, pp 2-3.
JPRS 47858

Fifth Party Plenum Reviewed on 23rd Anniversary,
by Sokrat Bandi, 5 pp.
ALBANIAN, np, Zeri i Popullit, Tirana, 21 Feb
1969, p p 2, 3.
JPRS 47901

Amendment Announced for Enterprise Management,
7 pp.
BULGARIAN, per, Durzhaven Vestnik, Sofia, No 11,
7 Feb 1969, pp 1-3.
JPRS 47579

New Directive Given on Labor and Farm Insurance,
16 pp.
BULGARIAN, per, Durzhaven Vestnik, Sofia, No 20,
11 Mar 1969, pp 1-5.
JPRS/47825

National and International Duties Discussed, by
Todor Ganchev, 12 pp.
BULGARIAN, per, Novo Vreme, Sofia, No 2, Feb 1969,
pp 3-13.
JPRS 47901

Speeches at Okrug Party Conferences Reported,
by Todor Zhivkov, 7 pp.
BULGARIAN, np, Rabotnichesko delo, Sofia,
1 Apr 1969, p 3.
JPRS 47858

Problems of New Czech Republic Re-Examined, by
Helena Blahova, 5 pp.
CZECH, np, Lidova Demokracie, Prague, 8 Mar 1969,
p 9.
JPRS 47723

Principle of Equal Sovereignty of States Examined,
by Miroslav Potacny, 11 pp.
CZECH, per, Mezinarodni Vztahy, Prague, No 4, 1968,
pp 3-9.
JPRS 47901

Press Criticized by CSSR-USSR Friendship Associ-
ation, 6 pp.
CZECH, rpt, Mlada Fronta, Prague, 8 Mar 1969, p 3.
JPRS 47723

Eastern Europe
Political (Contd)

Conservatives Organize Union of Youth, 7 pp.
CZECH, np, Mlada Fronta, Prague, 12 Mar 1969,
p 5.
JPRS 47901

Dubcek Letter to Youth Congress Calls for
Cooperation, by Alexander Dubcek, 5 pp.
CZECH, rpt, Mlada Fronta, Prague, 13 Mar 1969,
p 1-3.
JPRS 47723

Attitude of Bratislava Party Members Explained,
9 pp.
SLOVAK, np, Pravda, Bratislava, 25 Feb 1969,
p 5.
JPRS 47817

Charter of Czechoslovak Trade Union Movement
Published, 10 pp.
CZECH, np, Prace, Prague, 13 Mar 1969, pp 1-7.
JPRS 47805

Slovak-Czech Cooperation Under Federation
Needed, by Samuel Faltan, 5 pp.
SLOVAK, np, Pravda, Bratislava, 15 Mar 1969,
p 5.
JPRS 47817

Czechs, Slovaks Reach Mutual Understanding,
6 pp.
CZECH, np, Rude Pravo, Prague, 28 Feb 1969,
pp 1, 2.
JPRS 47817

Slovak National Council Procedures Established,
28 pp.
CZECH, law, Sbirka Zakonu CSSR, Prague, Part 51,
29 Dec 1968, pp 529-540.
JPRS 47697

Citizenship in Slovak Socialist Republic Defined,
8 pp.
CZECH, law, Sbirka Zakonu CSSR, Prague, Part 51,
29 Dec 1968, pp 542-545.
JPRS 47697

Slovak Central Administrative Organs Specified,
5 pp.
CZECH, rpt, Sbirka Zakonu CSSR, Prague, Part 51,
29 Dec 1968, pp 546-548.
JPRS 47697

Eastern Europe
Political (Contd)

Czech National Council Procedures Established,
31 pp.
CZECH, law, Sbirka Zakonu CSSR, Prague, Part 1,
8 Jan 1969, pp 1-15.
JPRS 47697

Czech Central Administrative Organs Specified,
8 pp.
CZECH, law, Sbirka Zakonu CSSR, Prague, Part 1,
8 Jan 1969, pp 16-19.
JPRS 47697

Czech Supreme Control Office Established,
9 pp.
CZECH, per, Sbirka Zakonu, Ceskoslovenska
Socialisticka Republika, Prague, Part 3,
1 Feb 1969, pp 33-35.
JPRS 47877

Czechoslovakia Creates State Defense Council,
5 pp.
CZECH, per, Sbirka Zakonu CSSR, Prague, Part 4,
Item 10, 10 Feb 1969, pp 37-39.
JPRS 47723

Pre-Invasion Report on Political Situation
Published, 23 pp.
CZECH, per, Tribuna, Prague, 5 Feb 1969,
pp 11-13.
JPRS 47817

Seidel's Concept of "Practice" Termed Revisionist,
by Erhard Stoelting, 11 pp.
GERMAN, rpt, Deutschland-Archiv, Cologne, Jan
1969, pp 20-27.
JPRS 47697

Seigewasser on Marxist-Christian Joint Interests,
by Hans Seigewasser, 8 pp.
GERMAN, np, Neue Zeit, East Berlin, 12 Feb 1969,
p 3.
JPRS 47663

Christian-Marxist Common Interests Assessed,
by Guenter Wirth, 6 pp.
GERMAN, np, Neue Zeit, East Berlin, 1 Mar
1969, p 6.
JPRS 47858

Comintern, German Workers Movement Reviewed, by
Ernst Diehl, 7 pp.
GERMAN, np, Neues Deutschland, East Berlin,
4 Mar 1969, p 3.
JPRS 47663

Eastern Europe
Political (Contd)

Speech by Matern to Leipzig Workers Conference,
by Hermann Matern, 11 pp.
GERMAN, np, Neues Deutschland, East Berlin,
11 Mar 1969, p 5.
JPRS 47723

Hager Delivers Report on University Reform, by
Kurt Hager, 11 pp.
GERMAN, np, Neues Deutschland, East Berlin,
5 Apr 1969, pp 3-4.
JPRS 47901

State Council Resolution on University Reform,
9 pp.
GERMAN, np, Neues Deutschland, East Berlin, 5
Apr 1969, p 5.
JPRS 47901

Der Spiegel Summarizes GDR University Changes,
7 pp.
GERMAN, np, Der Spiegel, Hamburg, 17 Mar 1969,
pp 41-42, 44.
JPRS 47946

Molnar Examines Marxist Sociology, Rebuts Hegedus,
by László Molnar, 7 pp.
HUNGARIAN, rpt, Partelet, Budapest, Feb 1969,
pp 42-47.
JPRS 47697

Sociopolitical Status of TSZ Presidents Evaluated,
by Imre Iar, 8 pp.
HUNGARIAN, rpt, Társadalmi Szemle, Budapest, Feb
1969, pp 18-23.
JPRS 47730

Hegedus' Article on Marxist Sociology Criticized,
by György Jenei, Andras Knopp, 11 pp.
HUNGARIAN, rpt, Társadalmi Szemle, Budapest,
Feb 1969, pp 61-69.
JPRS 47723

Ordinances Change Polish Internal Borders, 57 pp.
POLISH, law, Dziennik Ustaw, Warsaw, Nos 45 and 46,
19 and 31 Dec 1968, pp 501-513, 625-629.
JPRS 47805

Journalists' Discussion Covers Technocracy,
23 pp.
POLISH, per, Polityka, Warsaw, 1 Mar 1969,
pp 4, 5.
JPRS 47858

Eastern Europe
Political (Contd)

Theory of 'Limited Sovereignty' Attacked,
by Ion Mitran, 6 pp.
RUMANIAN, per, Contemporarul, Bucharest,
17 Jan 1969, pp 1, 8.
JPRS 47817

National, International Interests in Socialist
Development, by P. Constantin, I. Florea, 11 pp.
RUMANIAN, per, Lupta de Clasa, Bucharest, No 11,
Nov 1968, pp 89-98.
JPRS 47663

Importance of Socialist Legality Stressed, by
Stelian Staicu, 7 pp.
RUMANIAN, per, Lupta de Clasa, Bucharest, Dec
1968, pp 59-67.
JPRS 47805

Importance of Youth Training Stressed, by
Mihai Stoian, 14 pp.
RUMANIAN, per, Lupta de Clasa, Bucharest, Dec
1968, pp 68-77.
JPRS 47805

Literary Anthology of Manulescu Attacked for
Errors, by C. Stanesco, 7 pp.
RUMANIAN, rpt, Scinteia Tineretului, Bucharest,
11 Feb 1969, pp 1, 4.
JPRS 47697

Niculescu-Mizil Reports on Italian Party Congress,
by Paul Niculescu-Mizil, 6 pp.
RUMANIAN, np, Scinteia, Bucharest, 13 Mar 1969,
pp 1, 3.
JPRS 47723

Effect of Sino-Soviet Dispute on Budapest
Meeting Noted, by Andro Gabelic, 6 pp.
SERBO-CROATIAN, np, Narodna armija, Belgrade,
21 Mar 1969, p 16.
JPRS 47817

Law on 1969 Yugoslav Federal Budget Presented,
53 pp.
SERBO-CROATIAN, law, Sluzbeni List SFRJ, Belgrade,
4 Dec 1968, pp 1029-2053.
JPRS 47805

Federal Assembly States Position on Opstina,
14 pp.
SERBO-CROATIAN, rpt, Sluzbeni List SFRJ, Belgrade,
24 Dec 1968, pp 1136-1141.
JPRS 47697

Constitutional Amendments Change Federal Assembly,
11 pp.
SERBO-CROATIAN, rpt, Sluzbeni List SFRJ, Belgrade,
30 Dec 1968, pp 1293-1296.
JPRS 47697

Controversy Over Hrvatski Knjizevni List Seen,
by D. Vukov Colic, 5 pp.
SERBO-CROATIAN, np, Vjesnik, Zagreb, 15 Feb 1969,
pp 5, 6.
JPRS 47697

Military

Armed Forces Promotion Requirements Clarified,
5 pp.
CZECH, per, A Revue, Prague, No 4, 1969,
pp 14-15.
JPRS 47877

Infantry Weapons Effectively Combat Air Targets,
by Capt Kopenhagen, 13 pp.
GERMAN, rpt, Der Kampfer, East Berlin, Feb 1969,
pp 5-6.
JPRS 47723

The Automatic AA Gun, by R. Grochowski.
GERMAN, per, Militartechnik, No 10,
1968, pp 448-450.
ACSI J-6378
FSTC-HT-23-981-68

Frontier Protection of the Warsaw Pact
Nations, by Michael Czizmas.
GERMAN, per, Oesterreichische Militaer-
ische Zeitschrift, No 1, 1969.
*ACSI J-6686
ID 2204002169

Electronic Warfare Equipment and Methods, by
Alexander I. Pali. 425 pp.
GERMAN, bk, Technik und Methoden des Fundelek-
tronischen Krieges, 1968, pp 1-340.
NAV/NIC/tran-2823-69

Research on the Influence of Direction of
Initiation of Explosives on the Incidence of
Misfires in Milli-Second Delay Firing, by
W. Cybulski.
POLISH, per, Prace Glown Inst Gorn, No 437,
1968, 10pp.
NLL Ref: 8313.4 (5616)

Biology Classes, Religious Ideology Discussed,
by Lulezim Gazheli, 11 pp.
ALBANIAN, per, Aresimi Populloj, Tirana, No 6,
Nov-Dec 1968, pp 43-53.
JPRS 47663

Census Studies Bulgarian Educational Level, by
Tsvetana Donova, 10 pp.
BULGARIAN, per, Statistika, Sofia, Nov-Dec 1968,
pp 25-35.
JPRS 47697

Czech Miners Union Adopts Bylaws, 14 pp.
CZECH, rpt, Ceskoslovensky Hornik, Prague,
20 Mar 1969.
JPRS 47909

Czechoslovakia Also Has a Poverty Problem, by
Karol Peknik, 8 pp.
SLOVAK, per, Hospodarske Noviny, Prague, No 11,
14 Mar 1969, p 8.
JPRS 47825

Program of Czechoslovak Trade Union Movement
Published, 18 pp.
CZECH, np, Prace, Prague, 13 Mar 1969, pp 7-18.
JPRS 47805

Ukrainian Minority Problem in Slovakia
Reviewed, by Zdenka Stastna, 6 pp.
CZECH, per, Reporter, Prague, 13 Mar 1969,
pp 9-11.
JPRS 47877

Changes Made in Place Names and Organizations,
12 pp.
CZECH, per, Zpravodaj Statniho Statistickeho
Uradu, Prague, 16 Dec 1968, pp 155-160.
JPRS 47706

New Statutes of Water Management Office Issued,
10 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratis-
chen Republik, East Berlin, Part 2, No 18, 28 Feb
1969, pp 129-132.
JPRS 47766

Decree Details Health Ministry Duties, Operation,
15 pp.
GERMAN, per, Gesetzblatt der Deutschen Demo-
kratischen Republik, East Berlin, No 27, Part 2,
28 Mar 1969, pp 171-177.
JPRS 47946

Eastern Europe
Sociological (Contd)

Study Shows Unbalanced Population Structure,
by Fritz Schroeder, Karl-Dieter Seifert, 5 pp.
GERMAN, np, Neues Deutschland, East Berlin,
18 Mar 1969, p 3.
JPRS 47901

Socially Maladjusted Viewed as Youth Gang Source,
by Guenther Kraeupl, 18 pp.
GERMAN, rpt, Staat und Recht, East Berlin, Jan
1969, pp 63-76.
JPRS 47663

Article Reviews Social Function of Sociology,
by Kalman Kulcsar, 12 pp.
HUNGARIAN, per, Tarsadalmi Szemle, Budapest, Mar
1969, pp 43-52.
JPRS 47805

Changes in Higher Artistic School Law Announced,
9 pp.
POLISH, per, Dziennik Ustaw, Warsaw, 13 Mar 1969,
pp 79-81.
JPRS 47946

1971-1975 Plans for Polish Television Outlined,
by Zygmunt Zonik, 6 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 9 Feb
1969, p 3.
JPRS 47804

Manolescu's Literary Anthology Criticized, by
A. Dima, 9 pp.
ROMANIA, np, Scinteia, Bucharest, 6 Feb 1969,
pp 1, 4.
JPRS 47723

Law Passed to Finance Modernization in Air Safety,
5 pp.
SERBO-CROATIAN, rpt, Sluzbeni List SFRJ, Belgrade,
19 Feb 1969, pp 240-241.
JPRS 47766

WESTERN EUROPE
Economic

The New Law on Contracts of Affreightment
(Chartering) and Sea-Borne Trade, by J. LeClerc.
24 pp.
FRENCH, per, La Revue Maritime, No 240, Feb 1967,
pp 208-223.
NAV/NIC/Tran-2825-69

Political

Current Situation in Scandinavia Viewed, by
Poul Thomsen, 5 pp.
DANISH, np, Land og Folk, Copenhagen, 7 Feb 1969,
p 4.
JPRS 47671

Knud Jespersen Reports to 23d Congress, 11 pp.
DANISH, np, Land og Folk, Copenhagen, 15 Feb
1969, pp 7, 8.
JPRS 47715

Speech of 23d Congress by Soviet Delegate, 6 pp.
DANISH, np, Land og Folk, Copenhagen, 18 Feb 1969,
p 4.
JPRS 47715

Ideological Resolution Adopted by 23d Congress,
16 pp.
DANISH, np, Land og Folk, Copenhagen, 22 Feb 1969,
pp 5-7.
JPRS 47715

Central Committee Member Discusses Spanish CP,
by Claus Ingemann Jorgensen, 5 pp.
DANISH, np, Land og Folk, Copenhagen, 23-24 Feb
1969, p 9.
JPRS 47671

Revolutionary Struggle Needs Ideology, Theory,
by Oiva Bjorkbacka, 6 pp.
FINNISH, np, Kansan Utiset, Helsinki, 5 Feb 1969,
pp 4, 11.
JPRS 47671

National, International Tasks of CP Discussed,
by Aarne Saarinen, 5 pp.
FINNISH, np, Kansan Utiset, Helsinki, 21 Feb
1969, p 5.
JPRS 47771

Western Europe
Political (Contd)

CP Activity Based on Scientific Socialism, by
Oliva Bjorkbacka, 6 pp.
FINNISH, per, Jansan Uutiset, Helsinki, 1 Mar
1969, pp 4, 10.
JPRS 47544

CP Writer Urges Ideological, Political Renewal,
by Andre Vieuguet, 9 pp.
FRENCH, rpt, Cahiers du Communisme, Paris, Feb
1969, pp 4-10.
JPRS 47771

Ideological, Educational Work of PCF Discussed,
by Henri Martin, 11 pp.
FRENCH, rpt, Cahiers du Communisme, Paris, Feb
1969, pp 106-113.
JPRS 47771

Why Does Mao Bother With a Party Congress?, by
Leo Figueres, 5 pp.
FRENCH, rpt, Cahiers du Communisme, Paris, Feb
1969, pp 118-121.
JPRS 47771

CP Outsmarted at National Student Congress, by
Olivier Nicot, 9 pp.
FRENCH, rpt, Est et Ouest, Paris, 1-15 Feb 1969,
pp 8-11.
JPRS 47671

The May University: A Revolt Against Communism,
by Jean-Paul Delbague, 9 pp.
FRENCH, per, Est et Ouest, Paris, 16-28 Feb
1969, pp 3-7.
JPRS 47815

German Communist Party is Reborn in 1968, by
Francois Pellerin, 8 pp.
FRENCH, rpt, Est et Ouest, Paris, 1-15 Mar 1969,
pp 6-9.
JPRS 47771

Waldeck Rochet Discusses His New Book, by
Francois Lescure, 5 pp.
FRENCH, rpt, France Nouvelle, Paris, 5 Feb 1969,
pp 4-5.
JPRS 47577

CP Writer Outlines Party Policy, Program,
by Victor Joannes, 7 pp.
FRENCH, np, France Nouvelle, Paris, 5 Feb 1969,
pp 6-7.
JPRS 47577

Western Europe
Political (Contd)

Finding, Training, and Placing Party Cadres,
by Leon Felix, 8 pp.
FRENCH, np, France Nouvelle, Paris, 5 Mar 1969,
pp 8, 9.
JPRS 47771

CP Writer Offers Marxist Theory of Personality,
by Lucien Seve, 6 pp.
FRENCH, np, L'Humanite, Paris, 7 Mar 1969, p 11.
JPRS 47771

Philosopher Gives Advice on Reading Marx, by
Louis Althusser, 10 pp.
FRENCH, np, L'Humanite, Paris, 21 Mar 1969, p 7.
JPRS 47884

New Books by French CP Members Reviewed,
by Jean-Pierre Leonardini, 7 pp.
FRENCH, np, L'Humanite, Paris, 28 Mar 1969,
p 12.
JPRS 47928

Spanish CP Leader Sees Early End of Franco Regime,
by Santiago Carrillo, 7 pp.
FRENCH, np, L'Humanite Dimanche, Paris, 9 Feb
1969, pp 21, 24.
JPRS 47577

CP Pushes Campaign for Strong Student Union,
by Jean-Michel Catala, 18 pp.
FRENCH, per, Le Nouveau Clarte, Paris,
Feb 1969, pp 2, 3.
JPRS 47847

Meaning of Patriotism and Nationalism
Contrasted, by Jean Kanapa, 10 pp.
FRENCH, per, Le Nouveau Clarte, Paris,
Feb 1969, pp 48-50.
JPRS 47847

French CP Official Describes Communism Now, by
Francois Billoux, 16 pp.
FRENCH, np, La Nouvelle Critique, Paris, Feb 1969,
pp 2-8.
JPRS 47577

CP Comments on Soviet-Chinese Row, by
Otto Janacek, 7 pp.
GERMAN, np, Volksstimme, Vienna, 20 Mar 1969,
p 3.
JPRS 47847

Western Europe
Political (Contd)

Western Europe
Political (Contd)

Communist Writer Calls Stalin Revisionist, by
Franz Marek, 11 pp.
GERMAN, per, Weg und Ziel, Vienna, Vol 25, No 11,
Nov 1968, pp 548-557.
JPRS 47884

Significance of the 20th Party Congress,
by Franz Muhri, 10 pp.
GERMAN, per, Weg und Ziel, Vienna, Vol 26,
No 3, Mar 1969, pp 113-120.
JPRS 47815

Trotskyite Congress Defines Party Position, 19 pp.
ITALIAN, per, Bandiera Rossa, Rome, 15 Mar 1969,
pp 1-3.
JPRS 47884

Writer Comments on PCI Decentralization, by
Elio Quercioli, 6 pp.
ITALIAN, rpt, Critica Marxista, Rome, Jan-Feb
1969, pp 117-122.
JPRS 47577

Twelfth Congress of the Italian CP Analyzed,
by Giorgio Napolitano, 11 pp.
ITALIAN, rpt, Rinascita, Rome, 21 Feb 1969, pp 1-2
JPRS 47671

Peaceful Settlement of Sino-Soviet Crisis
Urged, by Luca Pavolini, 5 pp.
ITALIAN, np, Rinascita, Rome, 21 Mar 1969,
pp 3, 4.
JPRS 47847

Italian CP Looks at Stalin Debate in USSR, by
Adriano Guerra, 7 pp.
ITALIAN, per, Rinascita, Rome, 28 Mar 1969,
pp 11-13.
JPRS 47944

Berlinguer Maps Shift in Italian CP Leadership,
6 pp.
ITALIAN, np, L'Unita, Rome, 28 Feb 1969, p 5.
JPRS 47671

Pro-Chinese Writer Attacks Revisionist
'Falsehoods', 9 pp.
ITALIAN, per, Vento dell'Est, Milan, Mar 1969,
pp 142-149.
JPRS 47928

National Conference of Norwegian CP Outlined,
8 pp.
NORWEGIAN, per, Friheten, Oslo, 26 Mar-4 Apr
1969, pp 7, 16.
JPRS 47944

Former Chairman Criticizes Swedish CP Chairman,
by Hilding Hagberg, 5 pp.
SWEDISH, np, Norrskensflaman, Lulea, 25 Jan 1969,
pp 4, 15.
JPRS 47671

Hermansson Defense of CP Activities Rebutted,
by Hilding Hagberg, 7 pp.
SWEDISH, np, Norrskensflaman, Lulea,
11 Feb 1969, pp 5, 11.
JPRS 47815

CP Chairman Views Future Political Role of Left,
by C. H. Hermansson, 8 pp.
SWEDISH, np, Ny Dag, Stockholm, 5-11 Dec 1968,
p 3; 12-18 Dec 1968, p 3.
JPRS 47577

Military

Air Carbine and Projectile Therefor, 7 pp.
FRENCH, Patent No. 1,321,746, Engineering
Developments Limited.
Dept of Comm
Patent Office

AFRICA
Economic

French-Speaking Africa Shows Uneven Growth,
by Michel Gaud, 7 pp.
FRENCH, per, Afrique Contemporaine, Paris,
Jan-Feb 1969, pp 2-5.
JPRS 47743

EEC Reviews Industrialization Aid for Africa,
10 pp.
FRENCH, rpt, Afrique Service, Paris, 8 Jan 1969,
pp 1-8.
JPRS 47793

Niger's Four Year Public Investment Program, 7 pp.
FRENCH, rpt, Bulletin de l'Afrique Noire, Paris,
29 Jan 1969, pp 10849-10851.
JPRS 47673

First Five-Year Plan Investments Revised, 10 pp.
FRENCH, rpt, Bulletin de l'Afrique Noire, Paris,
Feb 1969, pp 10913-10918.
JPRS 47718

Ivorian General Economic Picture Reviewed,
18 pp.
FRENCH, per, Bulletin de l'Afrique Noire,
Paris, 5 Mar 1969, pp 10948-10961.
JPRS 47913

How Information Media Aid African Development,
by Jean Chanut, 12 pp.
FRENCH, per, Communautés et Continents,
Paris, Jan-Mar 1969, pp 7-14.
JPRS 47913

Senghor Speaks to Economic, Social Council,
9 pp.
FRENCH, np, Dakar-Matin, Dakar, 27 Mar 1969,
p 4.
JPRS 47913

African, European Trade Unions Meet in
Conakry, by Robert M. Tamba, 6 pp.
FRENCH, per, Horoya, Conakry, 22-28 Mar 1969,
pp 3-6.
JPRS 47849

Industrialization in Central African Republic,
11 pp.
FRENCH, rpt, Jeune Afrique, Paris/ Tunis, 10-16
Feb 1969, pp 22-27.
JPRS 47712

Official Analyses French Aid Policies in
Africa, 6 pp.
FRENCH, per, Le Margouillat, Paris, Oct-Dec
1968, pp 5-7.
JPRS 47929

Government Investments and Development in
1969, 7 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
2 Jan 1969, pp 8, 14.
JPRS 47349

Soviet-African Trade Relations More Un-
balanced, 6 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
9 Jan 1969, p 10.
JPRS 47743

Economic Survey After Ten Years of Independence,
5 pp.
FRENCH, np, Le Moniteur Africain, Dakar, 16 Jan
1969, p 8.
JPRS 47793

Belgian-African Trade Relations Still Vigorous,
6 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
23 Jan 1969, p 10.
JPRS 47743

UDEAO Called Inefficient, Revamping Possible,
8 pp.
FRENCH, per, Le Moniteur Africain, Dakar,
30 Jan 1969, pp 9, 11.
JPRS 47743

Country's Economic Prospects Found Encouraging,
5 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
6 Feb 1969, p 8.
JPRS 47743

Malian Economic Conditions, Prospects
Surveyed, 5 pp.
FRENCH, per, Le Moniteur Africain, Dakar,
13 Feb 1969, p 8.
JPRS 47743

Financial Steps taken to Improve Development,
6 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
20 Feb 1969, p 9.
JPRS 47849

Africa
Economic (Contd)

Industrialization Efforts in Angola Reviewed,
8 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
27 Feb 1969, pp 8, 12.
JPRS 47849

Industrial Development Plans, Results Reviewed,
by A. R. Khari, 63 pp.
FRENCH, np, El Moudjahid, Algiers, 22-23, 24, 26,
27 and 28 Dec 1968, and 3, 4, 9, 10, and 16 Jan
1969, p 5 in each issue.
JPRS 47718

Achievement, Prestige Studied Among the Fang,
by Jacques Binet, 16 pp.
FRENCH, rpt, Tiers Monde, Paris, Jan-Mar 1968,
pp 25-42.
JPRS 47712

Economic Infrastructure of Sao Tome, Principe,
by A. A. Quelhas, 5 pp.
PORTUGUESE, np, A Voz de Sao Tome, Sao Tome,
1 Feb 1969, p 2, 4.
JPRS 47793

Political

African Students Seen as Being at Impasse,
by Gilbert Comte, 5 pp.
FRENCH, per, Africa, Dakar, No 46, 1969,
pp 9-12.
JPRS 47849

Yaounde Convention Negotiations Continue,
12 pp.
FRENCH, per, Afrique Service, Paris,
19 Mar 1969, pp 1-18.
JPRS 47929

President Expresses Faith in Senegal's Future,
by Leopold Senghor, 17 pp.
FRENCH, np, Dakar-Matin, Dakar, 21 Feb 1969, pp 1,
8; 22 Feb 1969, p 4.
JPRS 47673

New Government Rules Explained to Merchants, by
Louis Negre, 9 pp.
FRENCH, rpt, L'Essor, Bamako, 18 Feb 1969, pp 1,
3, 4.
JPRS 47793

Africa
Political (Contd)

CSC Congress Preparatory Committee Reports,
8 pp.
FRENCH, per, Etumba, Brazzaville, 5-12 Apr
1969, pp 2, 8.
JPRS 47913

French Commentator Sees Malian Coup as Unique,
by Philippe Schneyder, 5 pp.
FRENCH, rpt, France-Eurafrigue, Paris, Dec 1968,
pp 5-7.
JPRS 47793

Press Freedom Allegedly Threatened in Africa,
by Gilbert Comte, 7 pp.
FRENCH, rpt, France Eurafrigue, Paris, Dec 1968,
pp 13-16.
JPRS 47673

Progress of Revolutionary Teaching Centers
Reported, by Tibon Tounkara, 6 pp.
FRENCH, per, Horoya, Guinea, 22-28 Feb 1969,
pp 23-26, 33.
JPRS 47849

New French-Speaking Community Project Analyzed,
by Ibrahima Signate, 7 pp.
FRENCH, rpt, Jeune Afrique, Paris/Tunis, 24 Feb-
2 Mar 1969, pp 28-30.
JPRS 47673

Central African Customs Union Examined, 7 pp.
FRENCH, np, Le Moniteur Africain, Dakar,
6 Feb 1969, pp 10-11.
JPRS 47849

Black African Educational Reforms Urged,
by Makhily Gassama, 11 pp.
FRENCH, per, Remarques Africaines, Brussels,
20 Mar 1969, pp 129-134.
JPRS 47913

Luanda District Administrative Division Changed,
18 pp.
PORTUGUESE, rpt, Boletim Oficial de Angola, Luanda,
4 Feb 1969, pp 167-174.
JPRS 47793

Uruguay, Paraguay, Bolivia Discuss Integration,
5 pp.
SPANISH, np, Accion, Montevideo, 31 Mar 1969,
p 2.
JPRS 47927

Africa
Sociological

Relation Between Education, Development
Examined, by Michel Norro, 10 pp.
FRENCH, per, Congo-Afrique, Kinshasa,
Feb 1969, pp 78-90.
JPRS 47913

Concept of Work in African Tribal Society Viewed,
by Raymond Johnson, 6 pp.
FRENCH, rpt, France Eurafricque, Paris, Dec 1968,
pp 40-43.
JPRS 47673

French-Speaking Community: Dream or Nightmare?,
7 pp.
FRENCH, per, Jeune Afrique, Paris/Tunis,
3-9 Mar 1969, pp 44-46.
JPRS 47743

Leban Social Structure, Religious Beliefs,
by Ousmane Silla, 7 pp.
FRENCH, per, Notes Africaines, Dakar,
Jul 1968, pp 79-83.
JPRS 47743

Problems of Latin American Priesthood
Discussed, by Michel de Certeau, 13 pp.
SPANISH, per, Mensajes, Santiago de Chile,
Mar-Apr 1969, pp 86-91.
JPRS 47927

MIDDLE EAST
Economic

Kuwait Industry Makes Progress in Al-Shu'aybah,
5 pp.
ARABIC, np, al-Ahram, Cairo, 25 Feb 1969, p 5.
JPRS 47839

The Kuwait Fund Serves the Arab Economy, 5 pp.
ARABIC, np, al-Ahram, Cairo, 25 Feb 1969, p 3.
JPRS 47839

Kuwait's Economy Shows Steady Development, 10 pp.
ARABIC, np, al-Ahram, Cairo, 25 Feb 1969, p4.
JPRS 47839

Middle East
Economic (Cont'd)

Expert Reviews Kuwait's Industrial Growth,
by Ahmad al-Bunayri, 8 pp.
ARABIC, np, Akhbar al-Kuwait, Kuwait,
9 Mar 1969, p 3.
JPRS 47912

Figures on UAR Industrial Progress Published,
5 pp.
ARABIC, np, al-Jumhuriyah, Cairo, 16 Feb 1969,
p 3.
JPRS/47822

Career Prospects for Lebanese Youth Analyzed, by
Lucian Berouti, 12 pp.
FRENCH, rpt, Le Commerce du Levant, Beirut, Feb
1969, pp 20-23.
JPRS 47768

Role of Agriculture in Syrian Economy Described,
by Gabriel Abouhamad, 12 pp.
FRENCH, rpt, Le Commerce du Levant, Beirut, Feb
1969, pp 24-27.
JPRS 47768

Symposium on Kibbutz Industry, 50 pp.
HEBREW, rpt, Al Hadoshmar, Tel Aviv, 27 Dec 1968,
pp 2-5.
JPRS 47714

Industry and Agriculture in the Jordan Valley,
by Yosef Galili, 5 pp.
HEBREW, np, Al Hadoshmar, Tel Aviv, 27 Dec 1968,
pp 5, 6.
JPRS 47714

Interrelation of Agriculture and Industry, by
Haim Halperin, 12 pp.
HEBREW, np, Al Hadoshmar, Tel Aviv, 27 Dec 1968,
pp 6, 7.
JPRS 47714

Modern Times, 44 pp.
RUSSIAN, bk, Ob'yedinnenaya Arabskaya Respublika,
Moscow, 1968, pp 91-418.
JPRS 47631

Economy, 90 pp.
RUSSIAN, bk, Ob'yedinnenaya Arabskaya Respublika,
Moscow, 1968.
JPRS 47631

Middle East
Political

Middle East
Political (Contd)

Palestinian Resistance Achievements Related, by
Muhammad Ahmad Ramadan, 5 pp.
ARABIC, np, al-Ahram, Cairo, 21 Jan 1969, p 7.
JPRS 47714

Kuwait Police Force Expands and Develops, 5 pp.
ARABIC, np, al-Ahram, Cairo, 25 Feb 1969, p 2.
JPRS 47839

Kuwait's Foreign Minister Holds Press Conference,
7 pp.
ARABIC, np, Akhbar al-Kuwait, Kuwait, 17 Feb 1969,
p 4.
JPRS 47800

Sudan Aims for Democracy, Progress, Arab Role,
by Mohamed Annan, 5 pp.
ARABIC, np, al-Hayat, Beirut, 5 Jan 1969, pp 4, 8.
JPRS 47632

Rejection of Soviet Peace Plan Required, 6 pp.
ARABIC, np, al-Hurriyyah, Beirut, 13 Jan 1969,
pp 6-7.
JPRS 47632

Report on Arab Nationalist Movement in Syria,
7 pp.
ARABIC, np, al-Hurriyyah, Beirut, 20 Jan 1969,
pp 12-13.
JPRS 47632

Popular Revolutionary Movement Issues Statement,
6 pp.
ARABIC, np, al-Hurriyyah, Beirut, 27 Jan 1969,
pp 5-6.
JPRS 47632

Arab Nationalist Movement in Syria Issues State-
ment, 9 pp.
ARABIC, np, al-Hurriyyah, Beirut, 27 Jan 1969,
pp 10-11.
JPRS 47632

Arab Nationalist Movement Shifts to Left, 29 pp.
ARABIC, np, al-Hurriyyah, Beirut, 10 Feb 1969,
pp 10-15.
JPRS 47822

Leftists Establish New Democratic Popular
Front for the Liberation of Palestine, 11 pp.
ARABIC, np, al-Hurriyyah, Beirut, 24 Feb 1969,
pp 4-7.
JPRS 47745

Program of Syrian Arab Socialist Revolution
Group Outlined, 9 pp.
ARABIC, np, al-Hurriyyah, Beirut, 24 Feb 1969,
pp 10-11.
JPRS 47745

Palestinian Leader Opts for Armed Resistance,
6 pp.
ARABIC, rpt, al-Hurriyyah, Beirut, 3 Mar 1969,
pp 6-7.
JPRS 47800

Revolutionary Labor Leadership Needed in Syria,
9 pp.
ARABIC, np, al-Hurriyyah, Beirut, 3 Mar 1969,
pp 10, 11, 16.
JPRS 47800

Iraqi Communists Support Kurdish Nationalism,
12 pp.
ARABIC, rpt, al-Hurriyyah, Beirut, 17 Mar 1969,
pp 12-14.
JPRS 47895

Fatah Works for Palestinian Liberation,
by Abu Sakhr, 9 pp.
ARABIC, rpt, al-Ishtiraki, Cairo, 21 Dec 1968,
pp 6-7, 11.
JPRS 47719

Abu Sakhr Discusses Fatah's Goals and Methods,
9 pp.
ARABIC, rpt, al-Ishtiraki, Cairo, 4 Jan 1969,
pp 6-8.
JPRS 47719

Arab Socialist Union Delegation Sent to Italy,
6 pp.
ARABIC, np, al-Ishtiraki, Cairo, 18 Jan 1969,
pp 4-5.
JPRS 47719

Egyptian National Assembly Elections Analyzed,
5 pp.
ARABIC, np, al-Ishtiraki, Cairo, 18 Jan 1969,
pp 9-10.
JPRS 47719

Delegation Visits Moslem Communities Abroad,
by Muhammad Diyab, 5 pp.
ARABIC, np, al-Jumhuriyah, Cairo, 16 Feb 1969,
p 2.
JPRS 47822

Middle East
Political (Contd)

Kuwait Between Tribalism and Democracy, by
Riyad Najib ar-Rayyis, 10 pp.
ARABIC, np, Al-Nahar, 12 Feb 1969, p 5; 13 Feb
1969, p 4.
JPRS 47714

UAR Position on Mideast War and Peace
Discussed, by Jamal Hamdi, 8 pp.
ARABIC, per, Rose al-Yusuf, Cairo, 24 Feb
1969, pp 2-4.
JPRS 47936

Review of Kuwait's Political Struggle Presented,
10 pp.
ARABIC, np, Al-Tali'ah, Kuwait, 22 Jan 1969, pp 7-
10.
JPRS 47632

Revolution Against Capitalism Produces
Socialism, by Fuad Mursi, 12 pp.
ARABIC, per, al-Tali'ah, Cairo, Mar 1969,
pp 9-14.
JPRS 47912

Arabs Must Isolate Israel From World Opinion,
by Khalid Muhyi al-Din, 5 pp.
ARABIC, per, al-Tali'ah, Cairo, Mar 1969,
pp 77-79.
JPRS 47912

Creation of New Gulf Federation Criticized,
5 pp.
ARABIC, np, Al-Thawri, Aden, 26 Feb 1969,
p 2.
JPRS 47866

Yemenite Students Hold Conference in
Leningrad, 5 pp.
ARABIC, np, Al-Thawri, Aden, 26 Feb 1969,
p 7.
JPRS 47866

Student Congress Defines Revolution's Goals,
7 pp.
ARABIC, per, Al-Thawri, Aden, 4 Mar 1969,
pp 7-8.
JPRS 47936

University's Relationship with Authority Studied,
by 'Ala' Ahmad Hamrushi, 6 pp.
ARABIC, np, al-Tulleb, Cairo, 1 Feb 1969, p 5.
JPRS 47895

Middle East
Political (Contd)

South Yemen Liberation Movement Discussed, 8 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb
1969, pp 89-95.
JPRS 47632

On "Six Four" Solution to Middle East Crisis,
121 pp.
FRENCH, rpt, Jeune Afrique, Paris, 27 Jan-2 Feb
1969, pp 44-49.
JPRS 47575

PFL Member Discusses Front Operations, 7 pp.
FRENCH, per, Jeune Afrique, Tunis, 8-9 Mar
1969, pp 34-37.
JPRS 47745

Defense in Athens Attack on El Al Views Case,
by Paul Bernetel, 7 pp.
FRENCH, rpt, Jeune Afrique, Tunis, 17-23 Mar
1969, pp 40-43.
JPRS 47895

Differences Among Palestinian Leaders Explained,
by Abdullah Schleifer, 9 pp.
FRENCH, rpt, Jeune Afrique, Tunis, 24-30 Mar 1969,
pp 50-53.
JPRS 47895

Pressing Need for Lebanese Domestic Unity Viewed,
by Sami Anhoury, 5 pp.
FRENCH, np, L'Orient, Beirut, 9 Feb 1969, p 9.
JPRS 47632

All Persons Compelled to Possess Police I.D.
Cards, 9 pp.
GREEK, np, Eleftheros Kosmos, Athens, 21 Feb
1969, pp 1, 7.
JPRS 47866

New Code Defines Students' Rights and Duties,
6 pp.
GREEK, np, To Vima, Athens, 26 Jan 1969,
p 15.
JPRS 47745

Uncertainty Breeds Disorders in Israeli-
Occupied Areas, 7 pp.
HEBREW, per, Bamahaneh, Tel Aviv, 18 Mar 1969,
pp 6, 7.
JPRS 47912

Middle East
Political (Contd)

Ambassador Favors Closer Relations with Germany.
6 pp.
HEBREW, np, Amorhav, Tel Aviv, 28 Mar 1969,
pp 3, 10.
JPRS 47952

Supports Soviet Move in Czechoslovakia, by
Seliba Khamis, 6 pp.
HEBREW, np, Zo Haderekh, Tel Aviv, 12 Feb 1969,
p 6.
JPRS 47714

Communists Appoint New Men, 6 pp.
HEBREW, np, Zo Haderekh, Tel Aviv, 12 Mar
1969, p 1.
JPRS 47866

Retention of Conquered Territories Opposed,
7 pp.
HEBREW, np, Zo Haderekh, Tel Aviv, 26 Mar 1969,
p 4.
JPRS 47952

United States-Israel Differences of Opinion,
by Y. Unger, 5 pp.
HEBREW, np, Zo Haderekh, Tel Aviv, 26 Mar 1969,
p 5.
JPRS 47952

Wants Firmer Stance on Israeli Public Image, by
Eli ezer Livneh, 5 pp.
HEBREW, np, Zot Haaretz, Tel Aviv, 10 Jan 1969,
pp 3, 6.
JPRS 47714

Historical Differences Bar to Boundary Settle-
ment, by Mikhael Deshe, 15 pp.
HEBREW, np, Zot Haaretz, Tel Aviv, 21 Jan 1969,
p 4; 7 Feb 1969, p 4.
JPRS 47719

Cambridge History of Iran Criticized, by
Mohammad-Ali Javid, 5 pp.
PERSIAN, per, Khandaniha, Tehran, 5-12 Nov 1968,
pp 8, 10.
JPRS 47936

State System and Public Organizations. 24 pp.
RUSSIAN, bk, Ob'yedinnenaya Arabskaya Respublika,
Moscow, 1968.
JPRS 47631

Middle East
Political (Cont'd)

Appendix. 37 pp.
RUSSIAN, bk, Ob'yedinnenaya Arabskaya Respublika,
Moscow, 1968.
JPRS 47631

Rakah Guidelines Repudiated, by Ben-Yitshaq, 12 pp.
YIDDISH, np, Frei Yisroel, 16 Jan 1969, p 3; 23
Jan 1969, p 2; Der Weg, 5 Feb 1969, pp 2, 5.
JPRS 47714

Military

'Ali Sabri Discusses National Mobilization,
5 pp.
ARABIC, per, al-Akhbar, Cairo, 12 Mar 1969,
pp 6, 9.
JPRS 47936

Talik, Tank Forces Commander, Explains
Victory, by Joseph Argaman, 8 pp.
HEBREW, per, Bamahaneh, Tel Aviv, 11 Mar 1969,
pp 18, 19.
JPRS 47866

Brigadier Eren Named New Tank Forces Commander,
by Benjamin Landau, 8 pp.
HEBREW, per, Bamahaneh, Tel Aviv, 11 Mar 1969,
pp 20, 21, 31.
JPRS 47866

Sociological

Advice Given on How to Improve Universities, by
Hasan 'Abbas Muhammad, 6 pp.
ARABIC, rpt, Al Tullab, Cairo, 18 Feb 1969, pp 7-9.
JPRS 47800

Yemeni Society's Culture Customs Reviewed,
by Hasan Muhammad Jawhar, Muhammad al-Sayyid Ayyub,
48 pp.
ARABIC, bk, al-Yaman, 1968, pp 28-126, 137-156.
JPRS 47719

Middle East
Sociological (Contd)

Land Reform Law Seen Ineffectual, by
Hasan Ali Hekmat, 6 pp.
PERSIAN, rpt, Khandanika, Tehran, 30 Nov-3 Dec
1968, p 12.
JPRS 47839

Culture, 78 pp.
RUSSIAN, bk, Ob'yedinnenaya Arabskaya Respublika
Moscow, 1968.
JPRS 47631

FAR EAST
Economic

Flooding Tops List, Flood Control Disrepair
Blamed, by Ch'en Yen-chi, 7 pp.
CHINESE, per, Fei-ch'ing Yueh-pao, Taipei,
1 Jan 1969, pp 51-54.
JPRS 47933

CPR Industrial Development During 1968, by
Chien Yuan-heng, 45 pp.
CHINESE, rpt, Fei-ch'ing Yen-chiu, Taipei, 10
Jan 1969, pp 60-79.
JPRS 47799

Communist China's Industrial Output Estimated,
by Li Ming-hua, 10 pp.
CHINESE, per, Fei-ch'ing Yueh-pao, Taipei,
1 Feb 1969, pp 52-55.
JPRS 47933

China's Industrial Development.
GERMAN, rpt, Chinas Industrielle Entwick-
lung, 7 Jan 1969, Incl to IR 2754004869
ACSI J-6372

Quality and Quantity in Export Products Urged,
by B. Derdeb, 6 pp.
MONGOLIAN, rpt, Namyn Am'dral, Ulan Bator,
No 8, 1968, pp 39-42.
JPRS 47753

Results of Fulfillment of Mongolia's 1967 Plan
Announced, 11 pp.
MONGOLIAN, np, Uhen, Ulan Bator, 12 Feb 1968, p 1.
JPRS 47753

Far East
Economic (Contd)

Yen Noi Cooperative Fights Floods, Insects,
by Ho Van, 5 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2,
Feb 1968, pp 34-37.
JPRS 47853

Further Development of Local Industry Stressed,
by Nguyen Van Tran, 10 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 19-28.
JPRS 47780

Various Exhortations for 1969 Plan Fulfillment
Cited, by Nguyen Con, 20 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 29-45.
JPRS 47780

Collective Ownership Core of Market Management,
by Nguyen Thanh Binh, 8 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, Jan 1969, pp 46-
51.
JPRS 47780

Improve Management of Technical Material, by
Nguyen Duc Tam, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 22 Mar 1969, p 2.
JPRS 47898

Machinery Industry Must Improve Management,
by Le Viet Huong, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 26 Mar 1969,
p 2.
JPRS 47898

Political

San Yung Speech on Armed Forces Day Anniversary,
5 pp.
BURMESE, rpt, Rangoon Radio, 0108 GMT,
27 Mar 1969.
JPRS 47916

Hanoi Chinese Grateful for Equal Rights, 5 pp.
CHINESE, np, Bao Tan Viet Hoa, Hanoi, 2 Feb 1969,
pp 1, 4.
JPRS 47644

Article Recounts Class Struggles in Kwangtung,
7 pp.

CHINESE, per, Ch'i-chuang Shan-ho, Canton,
Jul 1968, p 1.
JPRS 47848

Rightest Decision Reversals Must Be Crushed,
7 pp.

CHINESE, np, Ch'i-chuang Shan-ho, Canton,
Jul 1968, p 2.
JPRS 47818

Counterrevolution's 'Three Black Lines'
Revealed, 6 pp.

CHINESE, np, Ch'i-chuang Shan-ho, Canton,
Jul 1968, p 2.
JPRS 47818

Cultural Revolution Spreads Mao's Thought,
8 pp.

CHINESE, np, Chienh-fang-chun Pao, Shanghai,
22 Dec 1968,
JPRS 47818

Foreign Language Department Criticized, by
Ch'ang Tao Jen, 5 pp.

CHINESE, np, Ching-kang Shan, Peking, 22 Nov 1967,
p 3.
JPRS 47701

Chung-Shan University Party Leaders De-
nounced, 6 pp.

CHINESE, np, Chung-ta Chan-pao, Canton,
3 Aug 1968, p 1.
JPRS 47933

Exposes Anti-Maoist Campaign Attempt in Canton,
8 pp.

CHINESE, per, Chung-ta Chan-pao, Canton, No 63,
22 Sept 1968, p 4.
JPRS 47701

Factionalism in Chungshan University Discussed,
6 pp.

CHINESE, np, Chung-ta Hung-ch'i, Canton,
2 Mar 1969, pp 1, 3.
JPRS 47848

On T'ao Ch'u's Attempt to Restore Capitalism,
by Yun-shui, 5 pp.

CHINESE, np, Hsin-wen Chan-shih, Canton,
pp 3, 4.
JPRS 47818

Renewed Counterrevolutionary Purge Urged, 5 pp.
CHINESE, np, Hung Hua-kung, Canton, 5 May 1968,
p 1.

JPRS 47799

Worker Propaganda Team Active in Textile In-
stitute, 6 pp.

CHINESE, np, Kung-jen Tsao-fan-pao, Shanghai,
15 Sept 1968, p 1.
JPRS 47776

New Revolutionary Tide Meets Holiday, 10 pp.

CHINESE, np, Kung-jen Tsao-fan-pao, Shanghai,
19 Sept 1968, p 2.
JPRS 47776

Shanghai Working Class Praises Chairman Mao,
5 pp.

CHINESE, np, Kung-jen Tsao-fan-pao, Shanghai,
26 Dec 1968, p 1.
JPRS 47818

Masses Help Propaganda Teams Purge Party
Banks, 7 pp.

CHINESE, np, Shang-hai Hung-wei Chan-pao,
Shanghai, 21 Dec 1968, pp 1, 2.
JPRS 47848

Red Guards' Excesses at Medical School
Denounced, 5 pp.

CHINESE, np, Shang-hai Hung-wei Chan-pao,
Shanghai, 21 Dec 1968, pp 1-2.
JPRS 47818

Military Reclamation Flag is Flaming Red, 13 pp.

CHINESE, np, Shang-hai Hung-wei Chan-pao, Shanghai,
21 Dec 1968, p 4.
JPRS 47776

Intellectual Youth Reeducation by Farmers
Cited, 6 pp.

CHINESE, np, Shang-hai Hung-wei Chan-pao,
Shanghai, 30 Dec 1968.
JPRS 47818

Red Guards Must Make Revolution Forever, 5 pp.

CHINESE, np, Shang-hai Hung-wei Chan-pao,
Shanghai, 30 Dec 1968, p 2.
JPRS 47848

Lin Piao and the "Quotations from Chairman Mao
Tse-tung", by Liu Yueh-shen.

CHINESE, per, Studies on Chinese Communism,
Vol 2, No 6, 30 June 1968, pp 66-73.
RAND

Break the Ideological Resistance in Purge,
7 pp.
CHINESE, np, T'i-yu Chan-pao, Shanghai,
21 Dec 1968.
JPRS 47818

Erley Olsen Reports on Trip to North Vietnam,
by Erley Olsen, 7 pp.
DANISH, rpt, Land og Folk, Copenhagen, 16-17 Feb
1969, pp 12-13.
JPRS 47644

Vietnamese Deported from Cambodia Listed, 5 pp.
FRENCH, per, Journal Officiel du Cambodge, Phnom
Penh, 5 Oct 1968, pp 3773-3774; 12 Oct 1968, pp
3891-3893; 16 Oct 1968, pp 3929-3930; 23 Oct
1968, p 4006; 2 Nov 1968, pp 4112-4113; 9 Nov 1968,
pp 4229-4230; 7 Dec 1968, p 4591; 31 Dec 1968,
pp 5319-5320.
JPRS 47834

Deep-Rooted Nationalism Noted in Laos, by
Jacques Decornoy, 6 pp.
FRENCH, np, Le Monde, Paris, 5 July 1968, p 2.
JPRS 47834

Pathet Lao Plans, Intentions Reviewed, by
Jacques Decornoy, 5 pp.
FRENCH, np, Le Monde, Paris, 6 July 1968, p 5.
JPRS 47834

Rural Question Under Socialism Must be Resolved,
20 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 2-12.
JPRS 47900

The Ch'ongsal-Li Method is for Revolutionization,
12 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb 1969
pp 13-18.
JPRS 47900

Propaganda and Agitation Against the Japanese
Described, 17 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 19-29.
JPRS 47900

Dictatorship and Democracy in the State Activity,
12 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 30-36.
JPRS 47900

On the 20th Anniversary of the Korean People's
Army, by Chd Pyong-hak, 14 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 37-43.
JPRS 47900

New Reforms are Demanded in Coal Industry,
by Pak Son-gyun, 12 pp.
KOREAN, per, Kulloja, P'yongyang, 15 Feb 1969,
pp 44-49.
JPRS 47900

The South Korean Revolutionary Struggle Discussed,
by Cho Kyong-il, 12 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 50-56.
JPRS 47900

The Anti-Japanese Militarist Struggle Discussed,
by Han Hyong-il, 15 pp.
KOREAN, per, Kulloja, P'yongyang, No 2, 15 Feb
1969, pp 57-64.
JPRS 47900

Pak Chong-Hui Clique to be Denounced and
Punished, by An Pyong-gwon, 7 pp.
KOREAN, np, Nodong Sinmun, P'yongyang, 13 Feb
1969, p 3.
JPRS 47770

Preparation Urged for Party Organization
Elections, 5 pp.
MONGOLIAN, per, Namyn Am'dral, Ulan Bator,
No 1, 1968, pp 22-25.
JPRS 47809

Failure to Pay Party Membership Fees Hit,
6 pp.
MONGOLIAN, per, Namyn Am'dral, Ulan Bator,
No 1, 1968, pp 35-38.
JPRS 47809

Party Organizations Urged to Supervise Trade
Unions, by D. Yadamsuren, 6 pp.
MONGOLIAN, per, Namyn Am'dral, Ulan Bator,
No 2, 1968, pp 14-18.
JPRS 47809

Public Audit-Inspection Committees Must Be
Helped, by S. Viktor, 5 pp.
MONGOLIAN, per, Namyn Am'dral, Ulan Bator,
No 4, 1968, pp 60-62.
JPRS 47935

Far East
Political (Contd)

Far East
Political (Contd)

Scientifically Sound Labor Organization Vital,
by S. Budsuren, 6 pp.
MONGOLIAN, per, Magnyn Am'dral, Ulan Bator,
No 5, 1968, pp 31-35.
JPRS 47935

Ways of Overseeing Theoretical Seminars Out-
lined, by G. Lhasuren, 5 pp.
MONGOLIAN, per, Magnyn Am'dral, Ulan Bator,
No 3, 1969, pp 70-73.
JPRS 47935

South Vietnam Women Guerrilla's Role Described,
by Nguyen Thi Dinh, 5 pp.
SPANISH, np, Granma, Havana, 10 Mar 1969, p 7.
JPRS 47717

Article by Comrade T. L. Inspires Workers,
6 pp.
VIETNAMESE, rpt, Hanoi Radio, 1115 GMT,
8 Feb 1969.
JPRS 47739

1969 Goals: Defeat US; Increase Output, 8 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 3-9.
JPRS 47780

Le Thanh Nghi Exhorts Haiphong Dock Workers, by
Le Thanh Nghi, 12 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 10-18.
JPRS 47780

Praises Achievements; Criticizes Failures at Thanh
Mai, by Tran Duy Duong, 13 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 52-60.
JPRS 47780

Sees 1968 Tet as Start of U. S. Defeat in Vietnam,
by Cuu Long, 12 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 61-69.
JPRS 47780

10 Years of Cuban Revolutionary Success Lauded,
by Nguyen Thanh Ha, 8 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 70-75.
JPRS 47780

Lao Patriotic Front Sets Forth Anti-US Program,
by Phan Duong, 9 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 76-81.
JPRS 47780

Lao Patriotic Front Adopts New Political Program,
12 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 1, Jan 1969,
pp 82-89.
JPRS 47780

US Escalation Strategy Debunked, by
Thanh Tin, 9 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2,
Feb 1969, pp 74-81.
JPRS 47853

Nixon's Internal Woes Mirror U.S. Defeat
Abroad, by Lau Quy Ky, 11 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2,
Feb 1969, pp 82-89.
JPRS 47853

Management Decentralization Recommended, by
Doan Trong Truyen, 5 pp.
VIETNAMESE, np, Nhan Dan, 13 Jan 1969, p 2.
JPRS 47717

U. S. Failures, Communist Advances in 1968 Told,
by Le Binh, 8 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 26 Jan 1969,
p 3.
JPRS 47789

LPA Rejects Lam's Statement to Paris Conference,
5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 29 Jan 1969, p 4.
JPRS 47759

Democratic Activities Expanded, by Le Dien, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 1 Feb 1969, p 2.
JPRS 47644

Signal, Liaison Groups Urged to Continue Work,
5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 7 Feb 1969,
pp 1, 4.
JPRS 47717

Individualism Scored as Chief Party Problem,
by President Ho, 10 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 7 Feb 1969, p 2.
JPRS 47717

Four Revolutionary Traits of Signal Corps Listed,
by Le Cu, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 7 Feb 1969, p 3.
JPRS 47789

President Ho Outlines Virtues Required by Party,
by President Ho, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 10 Feb 1969, p 2.
JPRS 47717

Nguyen Duy Trinh Interviewed by Georg Polikait,
5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 4 Mar 1969,
pp 1-5.
JPRS 47827

Southern Woman Grateful for North's War Help,
5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 8 Mar 1969,
pp 3, 4.
JPRS 47898

War Efforts of North Vietnamese Women Hailed, by
Le Thi Xuyen, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 8 Mar 1969, pp 3.
JPRS 47898

President Nixon Also Warned of Ultimate Defeat,
by Hoang Minh Giam, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 19 Mar 1969, p 2.
JPRS 47941

U.S. Aircraft Fragments Presented as Gifts, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 19 Mar 1969, p 4.
JPRS 47941

Nourish Collective Ownership Spirit Among Youth,
by Vu Quang, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 26 Mar 1969, p 3.
JPRS 47898

Possibility of More Advanced Weaponry Disclosed,
by Tenjiro Fujikatsu, 5 pp.
CHINESE, np, Hsing-tao Jih-pao, Hong Kong,
1 Apr 1969, p 4.
JPRS 47933

VC Activities Stepped Up in Central Vietnam,
5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 24 Mar 1969,
p 3.
JPRS 47919

Sociological

Would Shorten Liberal Arts Study to Two Years,
5 pp.
CHINESE, np, Ching-kang Shan, Peking, 11 July
1967, p 4.
JPRS 47701

Educational Phase Expanded in Schools, 7 pp.
CHINESE, np, Kung-jan Tsao-fan-pao, Shanghai,
19 Dec 1968, p 3.
JPRS 47818

Anthropological Study of the Hak-ka Chinese
of Moncay Province (Tonkin), by Vaillant.
FRENCH, per, L'Anthropologie, Vol 30,
1920, pp 83-109.
ACSI J-5909
ID 2204019268

Contribution to the Study of the Diox
Populations of Lang-Long (Province of
Koui Tcheou, Southern China) by
Doutreligne.
FRENCH, per, Anthropos, Vol 26, 1931,
pp 35-53.
ACSI J-5909
ID 2204019268

The Villages of the Boloven Plateau, by
Fraisie.
FRENCH, per, Bulletin de la Societe des
Etudes Indochinoises, Vol 26, No 1,
1957, pp 53-72.
ACSI J-5909
ID 2204019268

Study of a Man Xanh Y Population Group,
by Perron.
FRENCH, per, Bulletin de la Societe des
Etudes Indochinoises, Vol 29, 1954,
pp 23-34.
ACSI J-5909
ID 2204019268

The Population of Western Tonkin and
Upper Laos, by Dussat.
FRENCH, bk, Cahiers de la Societe de
Geographie de Hanoi, 1924, pp 3-47.
ACSI J-5909
ID 2204019268

The Lo-lo, by Vial.
FRENCH, bk, Les Lolos, 1898, pp 1-38,
69-72.
ACSI J-5909
ID 2204019268

The Mo-so, by Bacot.
FRENCH, bk, Les Mo-so, Chapters I & II,
1913, pp 3-28.
ACSI J-5909
ID 2204019268

Ethnographical Research on the Yao in
South China, by Ling Zeng Seng.
FRENCH, bk, Recherches Ethnographiques
sur les Yao dans la Chine du Sud, 1929,
151 pp.
ACSI J-5909
ID 2204019268

Province Explains Success of Education
Program, by Vu Anh Tuan, 10 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2,
Feb 1969, pp 67-73.
JPRS 47853

Success of Cam Binh Township in Education, by
Le Thanh Nghi, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 9 Mar 1969,
pp 1, 2.
JPRS 47941

Better Meals Improve Life in Middle School, by
Pham Ke, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 18 Mar 1969, p 2.
JPRS 47941

LATIN AMERICA
Economic

Castro Tours Sugarcane Zones in Camaguey Pro-
vince, 13 pp.
ENGLISH, per, Granma Weekly Review, Havana, 30
Mar 1969, pp 1-3.
JPRS 47892

Cuba's Accomplishments, Plans in Various Sectors,
by Rafael Sanchez Lalebret, Alberto Pozo, 21 pp.
SPANISH, rpt, Bohemia, Havana, 17 Jan 1969, pp 6-
31.
JPRS 47576

Government Moves to Deal with Banana Crisis, 8 pp.
SPANISH, per, La Calle, Quito, No 535, pp 8-9.
JPRS 47892

Industrialist Speaks on U. S. Enterprise in L.A.,
8 pp.
SPANISH, per, La Calle, Quito, No 534-1969, pp 14-
17.
JPRS 47722

Costa Rica, Nicaragua Vie for Banana Markets,
5 pp.
SPANISH, per, La Calle, No 535, pp 4-6.
JPRS 47892

Argentina 1968-69 Economic Report Summarized,
7 pp.
SPANISH, np, Clarín, Buenos Aires, 16 Feb 1969,
Sec I, p 12.
JPRS 47820

March is Weighing-in Time with Income Tax, by
Carlos Sepulveda, 5 pp.
SPANISH, rpt, Ercilla, Santiago de Chile, 12-18
Feb 1969, pp 20-21.
JPRS 47767

Economic Outlook for Next 20 Months Analyzed,
by Carlos Sepulveda Vergara, 8 pp.
SPANISH, rpt, Ercilla, Santiago de Chile, 12-18
Mar 1969, pp 37-40.
JPRS 47788

Vast Social-Economic Plans for 1970 Achievement,
by Hernan Millas, 7 pp.
SPANISH, rpt, Ercilla, Santiago de Chile, 12-18
Mar 1969, pp 41-43.
JPRS 47788

Bank Management of Finance Houses Reviewed,
by Juan F. Pena, 5 pp.
SPANISH, per, Marcha, Montevideo, 7 Mar 1969,
pp 11, 15.
JPRS 47820

Metal Workers Meet to Set Labor and Social Goals,
8 pp.
SPANISH, np, El Popular, Montevideo, 27 Jan 1969,
p 7.
JPRS 47576

Private Interests Frustrate Frigorifico Nacional,
5 pp.
SPANISH, np, El Popular, Montevideo, 25 Feb 1969,
p 12.
JPRS 47788

A Labor View of Uruguayan Economic Policy, by
Ricardo Sazlund, 8 pp.
SPANISH, np, El Popular, Montevideo, 7 Mar 1969,
pp 4, 13.
JPRS 47843

Antonio Tamayo Attacks Present Economic Policies,
5 pp.
SPANISH, np, El Popular, Montevideo, 7 Mar 1969,
p 5.
JPRS 47843

House Financing Fails to Solve Problem, by
Noe Dukrado, 13 pp.
SPANISH, rpt, Vistazo, Guayaquil, Dec 1968,
pp 103-110.
JPRS 47722

Political

Nguyen Huu Tho Accepts Valdes' Credentials,
5 pp.
ENGLISH, np, Granma Weekly Review, Havana,
23 Mar 1969, p 7.
JPRS 47876

Tupamaros Movement in Uruguay Reviewed, by
Carlos Nunez, 29 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb
1969, pp 43-66.
JPRS 47662

Murray, Ford Discuss Black Panther Movement, by
George Murray, Joudon Major Ford, 15 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb
1969, pp 96-111.
JPRS 47662

Imperialism Decay Reflected in Cultural Alienation,
by Irwin Siber, 8 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb 1969,
pp 112-120.
JPRS 47662

First Tricontinental Conference Reviewed, 7 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb 1969,
pp 121-126.
JPRS 47662

Delegates Give Impressions of First Conference,
10 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb
1969, pp 127-136.
JPRS 47662

Current Phase of Guerrilla Movement Analyzed,
by Antonio Branco e Pinto, 6 pp.
FRENCH, rpt, Est et Ouest, Paris, 16-28 Feb 1969,
pp 20-24.
JPRS 47705

POC Member Views Situation of Left in Brazil,
5 pp.
FRENCH, np, Rouge, Paris, 16 Oct 1969, pp 14-15.
JPRS 47705

Juliao Disciple Promotes Subversion in Rondonia,
5 pp.
PORTUGUESE, np, O Globo, Rio de Janeiro, 5 Mar
1969, p 14.
JPRS 47674

Cuban Revolutionary Experience Analyzed, by
A. Popov, 13 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye
Otnosheniya, Moscow, No 1, 1969, pp 28-38.
JPRS 47576

Bosch Reviews Recent Dominican History, by
Juan Bosch, 7 pp.
SPANISH, rpt, Ahora, Santo Domingo, 31 Mar 1969,
pp 18-24.
JPRS 47939

Latin America
Political (Contd)

Latin America
Political (Contd)

Capture of 'Inside Man' in Tupamaro Holdup
Related, 7 pp.
SPANISH, np, EP Color, Montevideo, 16 Mar 1969,
p 4.
JPRS 47927

Results of Forum on Domestic Order Assessed,
by Javier Rodriguez, 5 pp.
SPANISH, per, Bohemia, Havana, 17 Mar 1969,
pp 80-81.
JPRS 47927

New Opposition Forces Confront Velasco Regime,
8 pp.
SPANISH, per, La Calle, Quito, No 535, pp 10-12.
JPRS 47892

Eustaquio Tolosa Discusses Union Unity, 6 pp.
SPANISH, np, CGT, Buenos Aires, 27 Mar-10 Apr
1969, p 2.
JPRS 47950

"Constructive Criticism" of the New Government,
by Enrique Zileri Gibson, 10 pp.
SPANISH, rpt, Caretas, Lima, 17-27 Feb 1969,
pp 10, 11, 14.
JPRS 47738

Paraguay: Savage Dictatorship of Stroessner,
7 pp.
SPANISH, rpt, Cuadernos Universitarios, Santiago,
Chile, Aug-Sept 1968, pp 4-8.
JPRS 47584

Story of Gang's Attack on Casino in Uruguay, 5 pp.
SPANISH, np, El Dia, Montevideo, 26 Feb 1969,
pp 1, 9.
JPRS 47767

Politician Expresses Optimism on Chairmanship,
6 pp.
SPANISH, per, Encuentro, Bogota, 18 Mar 1969,
pp 4, 5, 6.
JPRS 47910

Opposing Senatorial Candidates State Views, by
Erica Vexler, 7 pp.
SPANISH, rpt, Ercilla, Santiago, Chile, 22-26
Jan 1969, pp 10-12.
JPRS 47584

Integration: A Latin American Baby in Diapers,
by Carlos Sepulveda Vergara, 5 pp.
SPANISH, per, Ercilla, Santiago, 5-11 Mar 1969,
pp 20-21.
JPRS 47876

President Frei Reviews Problems, Programs,
by Emilio Filippi, 9 pp.
SPANISH, per, Ercilla, Santiago Chile,
12-18 Mar 1969, pp 33-37.
JPRS 47820

Alternatives to Tonic Candidacy in 1970 Discussed,
by Luis Hernandez Parker, 5 pp.
SPANISH, per, Ercilla, Santiago de Chile, 26 Mar-
1 Apr 1969, pp 8-9.
JPRS 47950

Political Spectrum, Candidates, Outlook Analyzed,
11 pp.
SPANISH, rpt, Ercilla, Santiago de Chile, 2-8
Apr 1969, pp 9-12.
JPRS 47939

Duzan Interviews President Velasco Ibarra, by
Lucio Duzan, 6 pp.
SPANISH, np, El Espectador, Bogota, 30 Mar 1969,
pp 1, 12.
JPRS 47950

Communists Disagree on Violent Revolution, 10 pp.
SPANISH, rpt, Este y Oeste, Caracas, Feb 1969,
pp 28-32.
JPRS 47843

Soviet Orientation Brings Disaster to Cuba, 22 pp.
SPANISH, rpt, Este and Oeste, Caracas, 5 Mar 1969,
pp 1-3, 7-19.
JPRS 47722

Problems of Subversion in Brazil Reviewed, 47 pp.
SPANISH, per, Este y Oeste, Caracas, Mar 1969,
pp 1-27.
JPRS 47950

Leader of URD Speaks to El Grafico, by
Enrique Barrilla Barascut, 10 pp.
SPANISH, np, El Grafico, Guatemala City, 23 Feb
1969, p 5; 24 Feb 1969, p 5.
JPRS 47767

Latin America
Political (Contd)

Latin America
Political (Contd)

Popular Administrators Trained for Offensive,
by Vicente Cubillas, 5 pp.
SPANISH, np, Granma, Havana, 13 Mar 1969, p 3.
JPRS 47843

Guatemalan Communist Youth Goals: Student
Support, 5 pp.
SPANISH, per, Juventud, Guatemala City,
Jan 1969, pp 1-6.
JPRS 47820

Open Letter to Independent Guerrilla Leader, 6 pp.
SPANISH, rpt, Guerrillero, Guatemala City, 15
Jan 1969, pp 1-4.
JPRS 47843

Work and Study Urged as Main Tasks of Youth, 8 pp.
SPANISH, np, Juventud Rebelde, Havana, 3 Feb 1969,
p 2.
JPRS 47722

Guerrilla Organization Declares Leader Unfit, 8 pp.
SPANISH, rpt, Guerrillero, Guatemala City, Feb
1969, pp 2-8.
JPRS 47843

Lawyer's Role in Today's Cuba Discussed,
by Mary Ruiz de Zarate, 8 pp.
SPANISH, np, Juventud Rebelde, Havana,
21 Feb 1969, p 5.
JPRS 47876

Colonel Arana to Run for Guatemala Presidency,
by Carlos M. Arana O., 7 pp.
SPANISH, rpt, La Hora, Guatemala City, 27 Jan
1969, pp 4-5.
JPRS 47584

Open Letter to Doctor Calderon Guardia Published,
by Manuel Mora Valverde, 6 pp.
SPANISH, np, Liberated, San Jose, 22 Mar 1969,
pp 1, 5.
JPRS 47892

Candidate Arana Interviewed on Election Issues,
6 pp.
SPANISH, np, El Imparcial, Guatemala City,
8 Feb 1969, p 18.
JPRS 47585

Nationalist Revolutionary Party Manifesto, 5 pp.
SPANISH, np, Manana, Quito, 6 Feb 1969, pp 6, 7.
JPRS 47722

Izquierda Meeting: Uruguay's Decline Stressed,
9 pp.
SPANISH, np, Izquierda, Montevideo, 7 Feb 1969,
pp 14, 15.
JPRS 47705

Authentic Opposition Force Called Imperative,
5 pp.
SPANISH, np, Marcha, Montevideo, 24 Jan 1969, p 7.
JPRS 47576

Borrat Discusses American Views on Latin America,
by Luis de la Selva, 6 pp.
SPANISH, np, Izquierda, Montevideo, 7 Feb 1969,
p 16.
JPRS 47705

Argentine Claims on La Plata Estuary Discussed,
by Carlos Banales, 7 pp.
SPANISH, np, Marcha, Montevideo, 31 Jan 1969,
pp 11, 12.
JPRS 47576

Speeches by Leftist Leaders at Meeting, 7 pp.
SPANISH, per, Izquierda, Montevideo,
7 Mar 1969, pp 10-11.
JPRS 47820

Two Versions of University Labor Conflict, by
Gabriel Saad, Bernardo Sastre, 8 pp.
SPANISH, np, Marcha, Montevideo, 7 Feb 1969,
pp 14, 15.
JPRS 47674

CDF Member Describes Goals, Outlook, of
Party, 5 pp.
SPANISH, np, Izquierda, Montevideo, 14 Mar
1969, p 9.
JPRS 47927

Latin American Church Organizes Protest, by
Hector Borrat, 6 pp.
SPANISH, np, Marcha, Montevideo, 28 Feb 1969,
pp 15, 22.
JPRS 47705

Opposition to Government Within Church Groups,
by Hector Borrat, 5 pp.
SPANISH, per, Marcha, Montevideo, 7 Mar 1969,
pp 19, 22.
JPRS 47820

Latin America
Political (Contd)

US Military Counterinsurgency Aid Scored,
by Carlos Banales, 5 pp.
SPANISH, np, Marcha, Montevideo, 14 March
1969, p 13.
JPRS 47876

Police Practice Terrorism, Torture in Uruguay,
by Maria Ester Gilio, Juan Carlos Araujo.
5 pp.
SPANISH, np, Marcha, Montevideo, 14 Mar 1969,
p 15.
JPRS 47910

Gradual Decline of State Power Monopoly
Related, 5 pp.
SPANISH, np, Marcha, Montevideo, 21 Mar 1969,
p 11.
JPRS 47927

Government Criticized for New Wage Regulations,
by Hector Rodriguez, 6 pp.
SPANISH, np, Marcha, Montevideo, 28 Mar 1969,
pp 6, 14.
JPRS 47939

Leftist Currents Among Brazilian Students, by
Jose Manuel Quijano, 5 pp.
SPANISH, np, Marcha, Montevideo, 28 Mar 1969, p 15.
JPRS 47939

USSR Scored for Czarist Line Against China,
by Sarandy Cabrera, 5 pp.
SPANISH, np, Marcha, Montevideo, 28 Mar 1969, p 18.
JPRS 47939

Popular Action Party and Humanist Socialism, by
Raul Pena Cabrera, 5 pp.
SPANISH, rpt, Uiga, Lima, 31 Jan 1969, pp 17-18.
JPRS 47576

Peruvian Leftist Supports Military Government,
by Ismael Frias, 5 pp.
SPANISH, rpt, Uiga, Lima, 28 Feb 1969, pp 17-20.
JPRS 47939

Wide Dissension on Official Wage Formula Noted,
5 pp.
SPANISH, np, El Pais, Montevideo, 25 Mar 1969, p 4.
JPRS 47939

Latin America
Political (Contd)

Worker's Daily Celebrates Twelfth Anniversary,
6 pp.
SPANISH, np, El Popular, Montevideo, 7 Feb 1969,
p 7.
JPRS 47674

Failure of Resettlement Agency Policy Under-
lined, 6 pp.
SPANISH, np, El Popular, Montevideo, 20 Feb 1969,
p 7.
JPRS 47788

Ruling Class is Corrupted: The Efecsa Case, by
Ricardo Sazlund, 6 pp.
SPANISH, per, El Popular, Montevideo, 14 Mar
1969, pp 4, 13.
JPRS 47950

Impressions of Peruvian Situation Discussed, by
Eduardo Viera, 17 pp.
SPANISH, np, El Popular, Montevideo, 14 Mar 1969,
p 12; 16 Mar 1969, p 5; 18 Mar 1969, p 2; 21 Mar
1969, p 2.
JPRS 47939

Belaunde Downfall Attributed to Fraudulent Deal,
by Eduardo Viera, 5 pp.
SPANISH, np, El Popular, Montevideo, 19 Mar 1969,
p 2.
JPRS 47939

Junta Policy Called Anti-popular Despite Reforms,
by Eduardo Viera, 6 pp.
SPANISH, np, El Popular, Montevideo, 20 Mar 1969,
p 2.
JPRS 47939

Militarization of Civil Servants Opposed,
5 pp.
SPANISH, np, El Popular, Montevideo, 21 Mar
1969, p 12.
JPRS 47927

American View of Alliance for Progress Attacked,
by Mario Luis Ferreira, 8 pp.
SPANISH, per, El Popular, Montevideo, 21 Mar 1969,
pp 14, 16.
JPRS 47950

Leftist Front President Attacks Government, 10 pp.
SPANISH, np, El Popular, Montevideo, 25 Mar 1969,
p 7.
JPRS 47950

Leftist Liberation Front Opens National Campaign,
6 pp.
SPANISH, np, El Popular, Montevideo, 26 Mar 1969,
p 7.
JPRS 47950

Labor Leaders Discuss Problems with President,
6 pp.
SPANISH, np, La Prensa, Buenos Aires, 1 Feb 1969,
pp 9, 14.
JPRS 47705

General Ovando, Probable Next Bolivian
President, 8 pp.
SPANISH, per, La Prensa, Lima, 16 Feb 1969,
pp 39-43.
JPRS 47820

Education Minister Discusses New Education
Law, 8 pp.
SPANISH, per, La Prensa, Lima, 2 Mar 1969,
pp 20-23.
JPRS 47820

Aprista Leader Views Peruvian Political
Scene, by Mario Castro Arenas,
Fernando Tola de Habich, 9 pp.
SPANISH, per, La Prensa, Lima, 23 Mar 1969,
pp 22-25.
JPRS 47876

Official Boycott of the Farm Bill Described, by
Luis Carrera, 5 pp.
SPANISH, per, Prensa Firme, Santiago de Chile,
8 Apr 1969, pp 8-9.
JPRS 47950

Officer Swears to CIA-Bolivian Army Collaboration,
6 pp.
SPANISH, np, Prensa Libre, Cochabamba, 2 Apr 1969,
pp 1, 4.
JPRS 47939

CIA Role in Guevara Diary Capture Studied, 7 pp.
SPANISH, np, Prensa Libre, Cochabamba, 5 Apr 1969,
p 3.
JPRS 47950

The Communists Praise the Armed Forces, by
Manuel Cantero, 9 pp.
SPANISH, rpt, Principios, Santiago, Chile, Sept-
Oct 1968, pp 43-50.
JPRS 47564

First Decade of Cuban Revolution Reviewed, by
Manuel Cabrera Donoso, 22 pp.
SPANISH, rpt, Punto Final, Santiago, Chile, 31
Dec 1968, pp 8-16 of Supplement.
JPRS 47576

Church, Christians Give Foundation to Revolution
18 pp.
SPANISH, rpt, Punto Final, Santiago, Chile, 25
Feb 1969, pp 1-8, Supplement.
JPRS 47584

Universities Becoming Military Targets
Alleged, by Jaime Faivovich, 13 pp.
SPANISH, per, Punto Final, Santiago,
11 Mar 1969, pp 2-5.
JPRS 47876

Analysis of Factors Affecting 1970 Elections,
5 pp.
SPANISH, rpt, Punto Final, Santiago de Chile,
25 Mar 1969, pp 30-31.
JPRS 47892

Minister of Defense Presents His Report, 18 pp.
SPANISH, np, Le Republica, Caracas, 9 Mar 1969,
pp 8, 9.
JPRS 47843

A Change That Worsens Our State of Dependence,
by Carlos Berger, 5 pp.
SPANISH, np, El Siglo, Santiago de Chile, 23
Feb 1969, p 5.
JPRS 47767

General Rojas Pinilla Reveals Future Government,
by Gustavo Rojas Pinilla, 11 pp.
SPANISH, np, El Siglo, Bogota, 16 Mar 1969, p 9.
JPRS 47892

Revolutionary Concepts Influence Catholic Church,
6 pp.
SPANISH, np, El Siglo, Santiago de Chile, 30 Mar
1969, Sunday Supplement, pp 8-9.
JPRS 47950

President Lleras Discusses Government Efforts,
by Arturo Abella, 7 pp.
SPANISH, np, El Tiempo, Bogota, 30 Jan 1969,
pp 1, 6.
JPRS 47576

Former Guerrilla Describes Escape from ELN, by Felipe Gonzalez Toledo, 7 pp.
SPANISH, np, El Tiempo, Bogota, 28 Feb 1969, p 28.
JPRS 47722

Guerrilla Defector Gives Press Conference, by Jaime Arenas Reyes, 5 pp.
SPANISH, np, El Tiempo, Bogota, 1 Mar 1969, pp 1, 6.
JPRS 47722

Cospina Perez Charts Conservative Policy, by Gabriel Gutierrez, 5 pp.
SPANISH, np, El Tiempo, Bogota, 13 Mar 1969, pp 1, 3.
JPRS 47767

Fernando Gonaz Ugalora Replies to El Siglo, 5 pp.
SPANISH, np, El Tiempo, Bogota, 11 Apr 1969, pp 1, 6.
JPRS 47950

PCB Appeal for Proletarian Ideology, Class Action, 25 pp.
SPANISH, np, Los Tiempos, Cochabamba, 8 Feb 1969, pp 9-10.
JPRS 47705

Minister Fernandez Explains New Government Goals, 21 pp.
SPANISH, rpt, Ultimas Noticias, Caracas, 16 Mar 1969, pp 20-23.
JPRS 47939

Elections Cause Breakup of Political Parties, 5 pp.
SPANISH, rpt, La Verdad, Guatemala City, Nov 1968, pp 1-7.
JPRS 47843

Revolutionaries Review Struggle During 1968, 6 pp.
SPANISH, per, La Verdad, Guatemala City, Jan 1969, excerpts.
JPRS 47843

Spiritualist Practices Decried as Anti-Marxist, 6 pp.
SPANISH, rpt, Verde Olivo, Havana, 16 Feb 1969, pp 23-25.
JPRS 47767

Position of Political Parties in Ecuador, by Milton Alava Ormae, 5 pp.
SPANISH, rpt, Vistazo, Guayaquil, Dec 1968, pp 59-61.
JPRS 47722

Venezuelan Political Balance of Power Assessed, by Jose Arizala, 5 pp.
SPANISH, np, Voz Proletaria, Bogota, 9 Jan 1969, p 8.
JPRS 47576

Vieira Opens CP Election Campaign in Barranquilla, 5 pp.
SPANISH, np, Voz Proletaria, Bogota, 20 Mar 1969, pp 9, 10.
JPRS 47892

Communist Students Upheld Peace Corps Expulsions, 5 pp.
SPANISH, np, Voz Proletaria, Bogota, 20 Mar 1969, pp 11, 12.
JPRS 47892

Sociological

Problem of Africa, Asia, Latin America Hunger Analyzed, by Albert-Paul Lentin, 14 pp.
ENGLISH, rpt, Tricontinental, Havana, Jan-Feb 1969, pp 67-80.
JPRS 47662

Coprin Approves Executive's Wage Adjustment, 5 pp.
SPANISH, np, Accion, Montevideo, 24 Mar 1969, p 5.
JPRS 47939

Training of Technicians in Cuba Progresses, 11 pp.
SPANISH, rpt, Bohemia, Havana, 14 Feb 1969, pp 46-52.
JPRS 47767

Honduran Bishops Hold Annual General Meeting, 5 pp.
SPANISH, np, El Cronista, Tegucigalpa, 21 Jan 1969, pp 1, 10.
JPRS 47576

Latin America
Sociological (Contd)

Scarcity of Priests in Chile Discussed, by Erica Vaxler, 7 pp.
SPANISH, per, Exceles, Santiago, 18-25 Mar 1969, pp 40-42.
JPRS 47910

Plans for Urbanization, Development of El Cagre, by Fernando G. Davalos, 8 pp.
SPANISH, np, Granma, Havana, 20 Mar 1969, p 7.
JPRS 47910

Interior Minister Calls for Fight on Crime, by Sergio del Valle, 16 pp.
SPANISH, np, Granma, Havana, 1 Apr 1969, pp 4-5.
JPRS 47892

Church in Peru Fulfills Modernization Mission, by Harold Griffiths E., 11 pp.
SPANISH, rpt, Oiga, Lima, 31 Jan 1969, pp 12-14, 38.
JPRS 47576

Documents on Church, National Reality Published, 16 pp.
SPANISH, np, El Popular, Montevideo, 26 Mar 1969, p 5; 27 Mar 1969, p 5; 28 Mar 1969, p 2; 1 Apr 1969, p 7; 2 Apr 1969, p 2; 3 Apr 1969, p 2.
JPRS 47939

Reflections on the Priest and Liturgy Today, by Luis Eduardo Rodriguez Esclava, 5 pp.
SPANISH, np, El Siglo, Bogota, 23 Mar 1969, p 3.
JPRS 47876

Colombian Clergy Seeks Social Reform Program, 5 pp.
SPANISH, np, El Tiempo, Bogota, 17 Feb 1969, pp 1, 22.
JPRS 47674

The Brain Drain; Ecuadorian Aid to U.S., by Cristobal Martinez, 11 pp.
SPANISH, rpt, Vistazo, Guayaquil, Dec 1968, pp 42-46.
JPRS 47722

Latin America
Geographic

Brazil's Historical Boundary Treaties Explored, by J. S. da Fonseca Hermes, Jr, 21 pp.
PORTUGUESE, rpt, Boletim da Sociedade Brasileira de Geografia, Rio de Janeiro, Jan-June 1968, pp 6-28.
JPRS 47843

Economic Geography, River Navigation of Amazon, by J. Favaro, 5 pp.
PORTUGUESE, rpt, Boletim da Sociedade Brasileira de Geografia, Rio de Janeiro, Jan-June 1968, pp 43-47.
JPRS 47843

Present-Day Problems of Amazon Considered, by Mauricio Joppert da Silva, 23 pp.
PORTUGUESE, rpt, Boletim da Sociedade Brasileira de Geografia, Rio de Janeiro, Jan-June 1968, pp 48-72.
JPRS 47843

SCIENTIFIC

Aeronautics

Aircraft Avoidance of Missiles Discussed,
by N. Leonidov, 7 pp.
RUSSIAN, per, Aviatsiya i Kosmonavtika,
Moscow, No 3, 1969, pp 20-21.
JPRS 47926

Dynamics of the Spatial Motion of an Air-
craft, by G. S. Byushgens, R. V. Studnev.
RUSSIAN, bk, Dinamika Prostranstvennogo
Dvizheniya Samoleta, 1967, pp 1-210.
NASA TT F-555-69

Determination of the Cost of an Aircraft as a
Function of Weight and Drag of the Glider Units,
by A. A. Kuznetsov. 10 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy. Aviatsionnaya Tekhnika, No 1, 1967,
pp 3-9.
AIR/FTD/MT-24-210-68

A System of Equations for an Analytical Study
of the Aerodynamic Characteristics of Elongated
Bodies at Large Angles of Attack, by
P. P. Ryaboshapka,
RUSSIAN, per, Izv Vyssh Ucheb Zaved, Aviat Tekh.,
Vol 11, No 2, 1968, pp 3-11.
*AEC

The Longitudinal Static Stability of Aircraft
With Two Lifting Wings, by V. I. Korolev. 8 pp.
RUSSIAN, rpt, Nauchnaya Konferentsiya po Gidro-
dinamike Bol'shikh Skorostey. L'ye, 1965.
Gidrodinamika Nesushchikh Poverkhnostey;
Materialy Konferentsii, 1966, pp 216-222.
AIR/FTD/MT-23-569-68

The Application of Aviation in Agriculture and
Forestry (Part 1 of 2), by M.B. Azar'yan,
T. R. Borodina, et al. 516 pp.
RUSSIAN, bk, Primeneniye Aviatsii v Sel'skom i
Lesnom Khozyaystve, 1966, pp 1-381.
AIR/FTD/MT-24-101-68

The Application of Aviation in Agriculture and
Forestry (Part 2 of 2), by M. B. Azar'yan,
T. R. Borodina, et al. 516 pp.
RUSSIAN, bk, Primeneniye Aviatsii v Sel'skom i
Lesnom Khozyaystve, 1966, pp 292-516.
AIR/FTD/MT-24-101-68

On the Boundary of the Fantastic, by
A. Mlotkov. 8 pp.
RUSSIAN, per, Sovetskiy Voin, No 23, 1967,
pp 33-36.
AIR/FTD/MT-23-304-68

Frequency Method of Measurement: Measure-
ment of Velocity and Acceleration and of
Angle and Angular Velocity of an Aero-
dynamic Body, by I. I. Pomykayev.
RUSSIAN, per, Trudy Mosk Aviats Inst Sb
Statoy, No 179, 1968, pp 58-77.
NASA TT F-12,159

Effect of Internal Flow on Aerodynamic
Behavior of Jet Aircrafts, by P. Carriere.
FRENCH, rpt, International Council of
Aeronautical Sciences, 6th Congress,
Munich, West Germany, 9-13 Sept 1968,
Paper 68, 39 pp.
*NASA TT F-12,345

The Problem of Braking Barriers: The
Hispano-Suiza Design, by M. Laining.
FRENCH, rpt, Paper Presented at the 8th
International Aeronautical Congress,
Paris, May 1967.
NASA TT F-12,135

Some Comments of the Article "Experimental
Design Work on Helicopters in the USSR",
by Jan Belcik.
POLISH, per, Wojkowy Przegląd Lotniczy,
No 11, 1968, pp 38-43.
ACSI J-6327
FSTC-MT-23-015-69

Prospects for Air Transportation in Yugoslavia,
by Marko Kocelj, 5 pp.
SERBO-CROATIAN, per, Transport, Belgrade, Feb
1969, pp 25-26.
JPRS 47937

Agriculture

Manual for Using Aerial Photographs in
Soil Mapping, by A. P. Merzhin.
RUSSIAN, bk, 1964, pp 1-64.
ACSI J-6369

Geography of Agricultural Machine-Building Shown,
by V. Yatsenko, 7 pp.
RUSSIAN, per, Agitator, Moscow, Dec 1968, pp 27-29.
JPRS 47710

Better Supply of Vegetables, Fruit Urged, by
N. Dergachev, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, p 29.
JPRS 47779

Wholesale, Retail Grain Prices Reviewed, by
A. Platonov, V. Narikov, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 7, Feb 1969, pp 30-31.
JPRS 47779

Achievements in Ukrainian Agriculture Described,
by I. Yarkovoy, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No
8, Feb 1969, pp 30-31.
JPRS 47779

Mechanization Needs of Ukrainian Animal Husbandry,
by Iv. Batov, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No 8,
Feb 1969, pp 32-33.
JPRS 47732

Barren Desert Transformed into Productive Sov-
khoz, by N. Dudorov, Ye. Petrov, 6 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 9, 1969, pp 30-31.
JPRS 47836

Fruits, Vegetables Quality, Prices Discussed,
by S. Mal'kov, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow,
No 9, 1969, pp 30-31.
JPRS 47836

Soviet Agricultural Production Discussed,
by N. Snimshchikov, 10 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta,
Moscow, No 10, Mar 1969, pp 30-31.
JPRS 47908

Kolkhozes Need Better Wage Incentive System, by
V. Zhurikov, 10 pp.
RUSSIAN, per, Ekonomika Sel'skogo Khozyaystva,
Moscow, Jan 1969, pp 6-11.
JPRS 47732

Current Agricultural Difficulties Summarized,
by V. Semenov, 12 pp.
RUSSIAN, per, Finansy SSSR, Moscow, No 3,
1969, pp 14-23.
JPRS 47931

Communist Party Decisions on Land Improve-
ment, by Ye. Ye. Alekseyevskiy, 17 pp.
RUSSIAN, per, Gidrotekhnika i Melioratsiya,
Moscow, No 1, Jan 1969, pp 1-13.
JPRS 47908

Saving Irkutsk Water Resources From Pollution,
by V. I. Astrakhansev, 5 pp.
RUSSIAN, per, Gidrotekhnika i Melioratsiya,
Moscow, No 1, Jan 1969, pp 104-105.
JPRS 47908

Agriculture Ministry to have Greater Powers,
by V. Tarashchenko, 6 pp.
RUSSIAN, np, Izvestiya, Moscow, 3 Jan 1969, p 3.
JPRS 47732

Mineral Fertilizers Increase Grain Production,
by A. S. Navolotskiy, 9 pp.
RUSSIAN, per, Khimiya v Sel'skom Khozyaystve,
Moscow, No 2, 1969, pp 2-5.
JPRS 47836

Agriculture Must Attain a New Level, by
Z. Nuriyev, 14 pp.
RUSSIAN, per, Kommunist, Moscow, No 3,
Feb 1969, pp 44-54.
JPRS 47869

Urges Komsomol Effort in Land Reclamation, by
Ye. Ye. Alekseyevskiy, 6 pp.
RUSSIAN, np, Komsomolskaya Pravda, Moscow, 24
Jan 1969, p 1.
JPRS 47732

Deficiencies in Lime Production Scored, by
V. Nesterovich, 5 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye
Snabzheniye, Moscow, No 2, 1969, pp 72-75.
JPRS 47836

Full Mechanization Planned in Field Work, by
G. M. Buzenkov, 11 pp.
RUSSIAN, rpt, Mekhanizatsiya i Elektrifikatsiya
Sotsialisticheskogo Sel'skogo Khozyaystva, Moscow,
Jan 1969, pp 5-8.
JPRS 47709

Long-Range Plans for Farm Mechanization Given,
By A. F. Kononenko, 12 pp.
RUSSIAN, rpt, Mekhanizatsiya i Elektrifikatsiya
Sotsialisticheskogo Sel'skogo Khozyaystva, Moscow,
Jan 1969, pp 13-16.
JPRS 47709

Activities of Sovussel'khoztekhnika Cited, by
A. A. Yezhevskiy, 18 pp.
RUSSIAN, per, Mekhanizatsiya i Elektrifikatsiya
Sotsialisticheskogo Sel'skogo Khozyaystva, Moscow,
No 2, 1969, pp 1-6.
JPRS 47743

Specialization in Agriculture Discussed, by
Nortart Chaki, 9 pp.
RUSSIAN, per, Mezhdunarodnyy Sel'skokhozyaystvennyy
Zhurnal, Moscow, No 6, 1968, pp 3-7.
JPRS 47696

Plans and Economic Incentives Considered, by
V. Kudinov, 17 pp.
RUSSIAN, per, Plannovoye Khozyaystvo, Moscow,
No 2, 1969, pp 58-65.
JPRS 47836

New Cotton Pest Control Methods Developed, by
G. Kalandarov, V. Reut, 5 pp.
RUSSIAN, np, Pravda, Moscow, 29 Jan 1969, p 3.
JPRS 47709

Little Benefit Derived from Dairy Mechanization,
by N. Antonov, Ye. Grigor'yev, 5 pp.
RUSSIAN, np, Pravda, Moscow, 11 Feb 1969, p 2.
JPRS 47779

Ukrainian Farmers View Approaching Spring,
by B. Burlay, 5 pp.
RUSSIAN, np, Pravda, Moscow, 24 Feb 1969, p 2.
JPRS 47709

Agronomist Holds Key to Land Productivity, by
F. Kozlovtssev, V. Pokrovov, 5 pp.
RUSSIAN, np, Pravda, 7 Mar 1969, p 2.
JPRS 47836

Farm Specialist Describes Needs of Spring Sowing,
by A. Barayev, 5 pp.
RUSSIAN, np, Pravda, Moscow, 9 Mar 1969, p 2.
JPRS/47779

Lutak Speaks at Ukrainian Agricultural Confer-
ence, 14 pp.
RUSSIAN, rpt, Pravda Ukrainy, Kiev, 12 Feb 1969,
pp 1-2.
JPRS 47709

Ukrainian Agricultural Workers Hold Meeting, 7 pp.
RUSSIAN, np, Pravda Ukrainy, Kiev, 13 Feb 1969,
p 1.
JPRS 47709

Ukrainian Feed, Fodder Production Lags Behind,
by I. Dydyk, 5 pp.
RUSSIAN, np, Pravda Ukrainy, Kiev, 11 Mar 1969,
p 2.
JPRS 47779

Rashidov Addresses Agricultural Workers, by
Sh. R. Rashidov, 21 pp.
RUSSIAN, np, Pravda Vostoka, Tashkent, 7 Mar
1969, pp 1-2.
JPRS 47726

Selected Articles on Sugar Beets, by
V. G. Podvigin, et al. 5 pp.
RUSSIAN, per, Sakhamaya Promyshlennost, Vol 40,
No 11, 1966, pp 46-50.
*CFSTI TT 69-53024

Selected Articles on Sugar Beets, by
M. Z. Khelenskiy, et al. 6 pp.
RUSSIAN, per, Sakhamaya Promyshlennost, Vol 41,
No 2, 1967, pp 36-41.
*CFSTI TT 69-53024

Development of Agricultural Equipment Discussed,
by P. Listov, 7 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow, 11 Jan 1969,
p 1.
JPRS 47943

Ukraine Spring Planting Outlook Optimistic, by
S. Luzgan, 6 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow, 5 Mar 1969,
p 1.
JPRS 47709

Saratovskaya Oblast Prepares for Spring Planting,
by B. Smirnov, 5 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow, 6 Apr 1969,
p 1.
JPRS 47945

Selected Articles on Sugar Beets, by
I. F. Buzanov, et al. 12 pp.
RUSSIAN, per, Sel'skokhozyaystvennaya Biologiya,
Vol 1, No 5, 1966, pp 654-665.
*CFSTI TT 69-53024

Distribution of Resources in Agricultural
Production by the Tabular Method, by
O. K. Aburdzhaniya, 5 pp.
RUSSIAN, per, Soobshcheniya Akademii Nauk
Gruzinskoy SSR, Tbilisi, Vol 52, No 2,
1968, pp 319-324.
JPRS 47845

Work of Procurement Organizations Secured, by
G. Ivanov, 8 pp.
RUSSIAN, per, Sovetskaya Potrebitel'skaya
Kooperatsiya, Moscow, Jan 1969, pp 18-21.
JPRS 47696

How USSR Potato Production Can be Improved,
by G. Svistun, 5 pp.
RUSSIAN, rpt, Sovetskaya Torgovlya, Moscow, Nov
1968, pp 40-42.
JPRS 57624

Capital for Uzbek Land Irrigation Studies, by
E. Akramov, N. Sagatov, 11 pp.
RUSSIAN, per, Vestnik Statistiki, Moscow, No 1,
1968, pp 17-23.
JPRS 47709

Livestock, Plant Protection Service Described,
6 pp.
RUSSIAN, per, Voennoye Znaniye, Moscow, Mar
1969, pp 22-23.
JPRS 47906

Pirro Dodbiba Discusses Vegetable Production,
by Pirro Dodbiba, 5 pp.
ALBANIAN, rpt, Zeri i Popullit, Tirana, 21 Jan
1969, pp 1, 2.
JPRS 47579

UAR Agricultural Reform Produces Results,
by Hasan Sallum, 6 pp.
ARABIC, np, Al-Ahram, Cairo, 11 Jan 1969,
p 9.
JPRS 47936

Milk Production and Processing Discussed, by
Marin Davedzhiev, 8 pp.
BULGARIAN, per, Geografiya, Sofia, No 9, 1968,
pp 1-4.
JPRS 47706

Changes Made in Cooperative Farm Work Forces,
by Lilyana Zarcheva, 6 pp.
BULGARIAN, per, Kooperativno Zemedelie,
Sofia, Jan 1969, pp 6-9.
JPRS 47882

CMEA's Role in Socialist Agriculture Outlined,
by Genadi Georgiev, Boris Dzhumaliev, 8 pp.
BULGARIAN, per, Naruchnik na Agitatora, Sofia,
No 1-2, Jan 1969, pp 79-86.
JPRS 47579

Efforts Urged in Farming to Compensate for 1968
Loss, by Atanas Doychev, Elena Konstantinova, 8 pp.
BULGARIAN, per, Naruchnik na Agitatora, Sofia,
No 3, 1969, pp 3-7.
JPRS 47730

Manufacture of Farm Implements Discussed,
by Khr. Marinov, 7 pp.
BULGARIAN, np, Tekhnicheskoe Delo, Sofia,
3 Mar 1969, p 7.
JPRS 47882

Advance Forecast in Animal Husbandry in 1969,
6 pp.
BULGARIAN, rpt, Zhivotnovodstvo, Sofia, Jan 1969,
pp 1-3.
JPRS 47756

Utilization of Manganese Ore Wastes in
the Manufacture of Fertilizers, by
F. Duchon.
CZECH, per, Agrochemia, Vol 5, No 4,
1965, pp 108-111.
NTC 69-10995-02A

Algeria's Problems Matter of Minds, Markets,
by Youcef Ferhi, 17 pp.
FRENCH, per, Actualite, Algiers, 23-29 Mar
1969, pp 3-11.
JPRS 47929

Crop and Weather Report, January 1969, by
D. Krumbiegel, 6 pp.
GERMAN, per, Feldwirtschaft, East Berlin, No 3,
Mar 1969, pp 151, 152.
JPRS 47804

The Amount of Nutrient Wash-out from Peat
and Peat Culture Substrates, by
E. Baumann.
GERMAN, per, Archiv für Gartenbau, Vol
12, No 5, 1964, pp 341-354.
NTC 69-10996-02A

Use of N¹⁵ in the Study of the Conversion
of Nitrogenous Fertilisers in Soil and
Their Uptake by Plants, by V. B. Zamyat-
ina.
GERMAN, per, Isotopenpraxis, Vol 3, No 2,
1967, pp 62-66.
NLL Ref: 5828.4F (M.13026)

Importance of Milling to Grain Industry Outlined, by Hans-Peter Friedrich, 8 pp.
GERMAN, rpt, Die Lebensmittel-Industrie, East Berlin, Feb 1969, pp 52-54.
JPRS 47888

Development of Fruit, Vegetable Processing Industry, by Lothar Wolter, 10 pp.
GERMAN, rpt, Die Lebensmittel-Industrie, East Berlin, Feb 1969, pp 55-58.
JPRS 47888

Fruit, Vegetable Production Management Outlined, by Manfred Anders, 11 pp.
GERMAN, per, Vertragssystem, East Berlin, Mar 1969, pp 160-163.
JPRS 47951

Research on High Speed Tillage in Hungary, by L. Lehoczyk.
HUNGARIAN, mono, Gyorsabb Gepi Munka a Szantofoldon, 1964.
NTC 69-10958-02B

Supply of Agricultural Specialists Analyzed, by Lajos Fogaras, 10 pp.
HUNGARIAN, rpt, Tarsadalmi Szemle, Budapest, Feb 1969, pp 39-46.
JPRS 47730

Agricultural Results for 1968 Appraised, by Imre Dimeny, 13 pp.
HUNGARIAN, per, Tarsadalmi Szemle, Budapest, Mar 1969, pp 34-42.
JPRS 47909

Technological Revolution in Agriculture Urged, by Kim Ki-yong, 12 pp.
KOREAN, rpt, Nodong Sinmun, P'yongyang, 19 Feb 1969, pp 2-3.
JPRS 47829

Mismanagement in Animal Care Criticized, 6 pp.
MONGOLIAN, per, Namyn Am'dral, Ulan Bator, No 4, 1968, pp 13-16.
JPRS 47935

PR Tasks to Solve Grain Problems Outlined, by Jozef Okuniewski, 9 pp.
POLISH, per, Nowe Rolnictwo, Warsaw, No 1, 1-15 Jan 1969, pp 1-3.
JPRS 47730

Jagielski Outlines 1969 Agricultural Tasks, by M. Jagielski, 23 pp.
POLISH, per, Nowe Rolnictwo, Warsaw, 1-15 Feb 1969, pp 1-9.
JPRS 47951

Future Problems for Agriculture Foreseen, by Stefan Ignar, 21 pp.
POLISH, per, Wies Wspolczesna, Warsaw, No 3, Mar 1969, pp 30-48.
JPRS 47937

Tasks of State Agricultural Enterprises Studied, by V. Vedeanu, 5 pp.
ROMANIAN, np, Agricultura Socialista, Bucharest, 6 Mar 1969, pp 1, 2.
JPRS 47730

Advances in Timber Utilization Described, by Mihai Suder, 6 pp.
ROMANIAN, np, Muncitorul Forestier, Bucharest, 28 Feb 1969, pp 1, 4.
JPRS 47756

Organization of Production and Labor in Agriculture, by N. Giosan, 6 pp.
ROMANIAN, rpt, Probleme Agricole, Bucharest, Jan 1969, pp 4-8.
JPRS 47730

Scientific Research on Grain and Technical Crops, by T. Muresan, 13 pp.
ROMANIAN, rpt, Probleme Agricole, Bucharest, Jan 1969, pp 9-17.
JPRS 47730

Achievements and Prospects of Animal Production, by Nicolae Barbu, 10 pp.
ROMANIAN, rpt, Revista de Zootehnie si Medicina Veterinara, Bucharest, Jan 1969, pp 5-11.
JPRS 47706

Development of Agriculture Since 1965 Reviewed, by Dregutin Jurko, 71 pp.
SERBO-CROATIAN, rpt, Agronomski Glasnik, Zagreb, July-Aug 1968, pp 573-634.
JPRS 47716

Credits and Consolidating Farm Acreage, by Melanija Jevdjovic, 9 pp.
SERBO-CROATIAN, per, Glasnik Poljoprivrede i Zadrugarstva, Belgrade, Feb 1969, pp 14-18.
JPRS 47951

Agricultural Industrial Combines Cooperate, 7 pp.
SERBO-CROATIAN, per, Glasnik Poljoprivrede i Zadrugarstva, Belgrade, Feb 1969, pp 24-26.
JPRS 47951

Serbia's Socialized Farming Sector Discussed, by Viden S. Randjelovic, 7 pp.
SERBO-CROATIAN, per, Glasnik Poljoprivrede i Zadrugarstva, Belgrade, Feb 1969, pp 60-63.
JPRS 47951

Yugoslavian Water Resources Fully Outlined, by Rade Knezevic, 9 pp.
SERBO-CROATIAN, per, Glasnik Poljoprivrede i Zadrugarstva, Belgrade, Feb 1969, pp 69-72.
JPRS 47951

1969 Agriculture, Tobacco Industry Program Outlined, 7 pp.
SERBO-CROATIAN, np, Privredni Pregled, Belgrade, 19, 20 Feb 1969, p 11.
JPRS 47756

The Chilling Requirements of Apricot, Peach and Pear Varieties, by M. C. Tabuenca.
SPANISH, per, Anales Estacion Experimental de Aula Dei. Saragossa, Vol 7, No 3/4, 1964, pp 113-132.
NTC 69-10961-02D

New Plan for Citrus Development Put into Effect, by Armando Boudet Gomez, 6 pp.
SPANISH, rpt, Bohemia, Havana, 21 Feb 1969, pp 36-41.
JPRS 47722

Efficiency Prevails in 1969 Sugar Harvest, by Raul Palazuelos, 6 pp.
SPANISH, rpt, Bohemia, Havana, 28 Feb 1969, pp 58-62.
JPRS 47788

The Influence of Temperature on the Flowering Time of Fruit Trees, by M. C. Tabuenca, J. Herrero.
SPANISH, per, Estacion Experimental de Aula dei. Saragossa. Anales, Vol 8, No 1/2, 1966, pp 115-153.
NTC 69-10960-02D

Errors in Agricultural 'Contract' Method Noted, 6 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 1-5.
JPRS 47853

Truong Chinh Discusses Agricultural Cooperatives, by Truong Chinh, 37 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 8-33.
JPRS 47853

Yen Truong Cooperative Involves Masses, Succeeds, by Vu Dung, 9 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 37-42.
JPRS 47853

Dai Xuan Cooperative Multiplies Party Chapters, by Quang Hong, 7 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 42-46.
JPRS 47853

Tho Xuan District Explains Success Factors, by Huu Duc, 6 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 46-50.
JPRS 47853

Gia Loc District Has 5-Ton Yield for Second Year, by Tran Minh Tan, 6 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 50-54.
JPRS 47853

Cooperative Tells How it Achieved 'Three Goals', by Nguyen Van Suu, 17 pp.
VIETNAMESE, per, Hoc Tap, Hanoi, No 2, Feb 1969, pp 57-66, 73.
JPRS 47853

State Farms Need Better Management; Face Big Tasks, by Le Xuan Thi, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 2 Mar 1969, p 2.
JPRS 47862

Prevent, Eradicate Spring Rice Insects, Disease, by Duong Hong Dat, 5 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 10 Mar 1969, p 2.
JPRS 47919

Thái Bình Province Builds 10-Ton Fields,
by Ngo Duy Dong, 6 pp.
VIETNAMESE, np, Nhan Dan, Hanoi, 17 Mar 1969,
p 2.
JPRS 47919

Astronomy & Astrophysics

Analytical and Numerical Methods of Celestial
Mechanics, by G.A. Chebotarev. 282 pp.
RUSSIAN, bk, Analiticheskiye i Chislennyye
Metody Nebesnoy Mekhaniki. 1965, pp 1-367.
AIR/FTD/HT-23-391-68

Origin of Solar Wind and Its Astrophysical
Aspects, by Ye. R. Mustel.
RUSSIAN, per, Astronomicheskii Sovet Ak
Nauk SSSR, Nauchnyye Informatsiy, Vol 10,
1968, pp 1-38.
NAS/GSFC/ST-SP-CR-PF-GM-10772

Radiation and Reflectivity of Venus in
Decimeter Waves, by G. M. Strelkov.
RUSSIAN, per, Astronomicheskii Vestnik,
Vol 2, No 1, 1968, pp 19-23.
NAS/GSFC/ST-LPS-RA-10798

Radiation of Venus Near λ 1.35 CM, by
G. M. Strelkov.
RUSSIAN, Astronomicheskii Vestnik, Vol
2, No 4, 1968, pp 217-228.
NAS/GSFC/ST-LPS-RA-10796

Atlas of the Reverse Side of the Moon,
Part II, by Yu. N. Lipskiy.
RUSSIAN, bk, Atlas Obratnoy Storony Luny,
Chast' II, 1967, 286 pp.
NAS/NASA/TT F-514 69

Optimum Transfer Between Near Kepler
Orbits, by G. A. Krasinskiy.
RUSSIAN, per, Byulleten Inst Teoretich-
eskoy Astronomiy, Vol 9, No 6, 1964,
pp 425-439.
Dept of Navy APL/JHU CLB-3 T-574

Determination of the Dimensions of the
Magnetosphere, as Measured by the Sub-
solar Distance, from the Data of Ter-
restrial Observations of Geomagnetic
Micropulsations, by V. A. Troitskaya,
R. V. Shchepetnov.
RUSSIAN, per, Dokl. Ak. Nauk SSSR, Vol 182,
No 5, 1968, pp 1063-1066.
NAS/GSFC/ST-GM-PF-10769

Cosmic Rays and Dynamics of the Solar Wind,
by I. V. Dorman, L. I. Dorman.
RUSSIAN, per, Geomagnetizm i Aeronomiya,
Vol 8, No 6, 1968, pp 1008-1013.
NAS/GSFC/ST-CR-IGA-10789

Interaction of the Interplanetary Medium
with the Earth's Magnetosphere in a Period
of Solar Activity Decrease, by
N. V. Kovalevskiy.
RUSSIAN, per, Geomagnetizm i Aeronomiya,
Vol 9, No 1, 1969, pp 10-13.
NAS/GSFC/ST-PF-10811

Some Peculiarities of Plasma Motions in
the Earth's Magnetosphere, by
M. V. Samokhin.
RUSSIAN, per, Geomagnetizm i Aeronomiya,
Vol 9, No 1, 1969, pp 16-22.
Sci & Tech Info Facility
ST-PF-PFL-10826

Radio Observations of Three Suspected Type
II Supernova Remnants, by N. V. Bystrova.
RUSSIAN, per, Izv. Glav. Ast. Obs. v Pulkova,
Vol 24, No 178, 1965, pp 202-205.
NLL Ref: 8732 (NRC TT-1323)

Currents of Quasitrapped Particles and
Their Interaction with the Geomagnetic
Field, by V. D. Pletnev, O. A. Troshichev.
RUSSIAN, per, Kosmicheskkiye Issledovaniya,
Vol 6, No 5, 1968, pp 707-719.
NAS/GSFC/ST-PF-GM-10788

On the Fibrous Structure of Currents in
the Magnetosphere, by V. M. Mishin,
I. A. Zhulin.
RUSSIAN, per, Kosmicheskkiye Issledovaniya,
Vol 6, No 6, 1968, pp 863-868.
NAS/GSFC/ST-PF-GM-10808

On the Possible Injection of Charged
Particles into the Zone of Trapped
Radiation During the Main Phase of a
Magnetic Storm, by V. P. Shalimov.
RUSSIAN, per, Kosmicheskkiye Issledovaniya,
Vol 6, No 6, 1968, pp 941-943.
NAS/GSFC/ST-PF-GM-10805

Boundary of Trapped Electrons with $E \approx 280$ keV and Disposition of Current Electrons in the Ionosphere, by R. G. Afonina, Ya. I. Fel'dshteyn.
 RUSSIAN, per, Kosmicheskiye Issledovaniya, Vol 7, No 2, 1969, pp 312-314.
 Sci & Tech Info Facility
 ST-PF-GM-AI-10832

Nuclei of Galaxies, by V. A. Ambartsumyan.
 RUSSIAN, per, Problemy Astrofiziki, No 2, 1969, pp 20-35.
 *NASA TT F-12,358

The Hot Universe, by Ya. B. Zel'dovich.
 RUSSIAN, per, Problemy Astrofiziki, No 2, 1969, pp 36-43.
 *NASA TT F-12,359

Propagation of Ultra-Short Waves in the Atmosphere of Venus, by O. P. Yakovlev, G. D. Yakovleva.
 RUSSIAN, per, Radiotekhnika i Elektronika, Vol 15, No 4, 1969, pp 579-586.
 Sci & Tech Info Facility
 ST-PA-RWP-10831

The Stokes Loss Function in the Cds Luminescence Centers, by V. A. Loozits, K. K. Rebane.
 RUSSIAN, per, Trudy Inst Fiz Astron AN Est SSR, Vol 32, 1967, pp 3-15.
 NLL Ref: 5828.4F (12998)

Investigation of the Relationship Between the Upper Ionosphere Drifts and the Currents Systems of the Dynamo-Region at Middle and High Latitudes, by A. A. Kashin.
 RUSSIAN, per, Vestnik Moskovskogo Univer Fizika i Astronomiya, No 1, 1969, pp 51-54.
 Sci & Tech Info Facility
 ST-AI-GM-10829

Interaction of Cosmic Protons with Interplanetary Plasma, by Yu. M. Nikolayev.
 RUSSIAN, per, Vestnik Moskovskogo Univer Fizika i Astronomiya, No 1, 1969, pp 113-116.
 Sci & Tech Info Facility
 ST-CR-IP-10827

The Development of Earth Sciences in the USSR. Volume 3 Of 3. (Selected Articles by Selected Authors). 1003 pp 172 pp.
 RUSSIAN, bk, AN SSSR, Otdeleniye Nauk O Zemle, Institut Istorii Yestestvoznaniya i Tekhniki. Razvitiye Nauk o Zemle v SSSR. Sovetskaya Nauk i Tekhnika za 50 Let, 1967, pp 831-1003.
 AIR/FTD/M-24-291-68

On the Electrical Charging of Cloud Droplets and Fog Droplets by Diffusion, by N. S. Siskin.
 RUSSIAN, per, Dokl AN SSSR, Vol 176, 1967, pp 1288-1291.
 NLL Ref: 5828.4F (M.7489)

Fluctuations in the Solar Irradiation of the Earth Due to Secular Variations in the Elements of the Earth's Orbit, by S. G. Saraf, N. A. Budnikova.
 RUSSIAN, per, Dokl AN SSSR, Vol 182, No 2, 1968, pp 291-293.
 NLL Ref: 5828.4F (M.7493)

Electricity of the Free Atmosphere (Results of Measurements during the IGY and MCG), by I. M. Inyanitov, Ye. V. Chubarina. 259 pp.
 RUSSIAN, bk, Elektrichestvo Svyobodnoy Atmosfery; Rezul'taty Izmereniy vo Vremya MCG i MGS, 1965, pp 1-240.
 AIR/FTD/M-24-156-68

Estimate of the Rate of Charged Particle Vertical Transfer in the Outer Part of the Ionosphere F2-Region, by A. Muradov, M. N. Fatkullin.
 RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol 8, No 6, 1968, pp 1039-1044.
 NAS/GSFC/ST-AI-PF-10804-68

Analysis of Night Sky Emissions According to Observations on AES "Kosmos-92", by V. A. Krasnopol'skiy.
 RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol 8, No 6, 1968, pp 1063-1067.
 NAS/GSFC/ST-AA-AM-10791-68

Handbook on the Climate of the USSR (Part 2) Temperature of Air and Soil, by A. P. Katsyka. 208 pp.
 RUSSIAN, bk, GUGMS. Spravochnik po Klimatu SSSR. Part 2. Leningrad, No 27, 1966, pp 1-184.
 AIR/FTD/M-24-185-68

A Comparison of the Main Regularities in the Circulation of the Atmosphere Over the Southern and Northern Hemispheres, by B. L. Dzerdzeyevskiy.
 RUSSIAN, per, Inf. Byull. Sovet. Antarkt. Eksp., 1967, No 65, pp 58-66.
 NLL Ref: 5828.4F (M.7492)

The Conditions of Observation of the Zodiacal Light During a Solar Eclipse, by V. G. Pesenkov. RUSSIAN, per, Izv. AN. SSSR Astron. Inst., No 12, 1961, pp 15-20. NLL Ref: 9021.7 (10)

An Experimental Study of Atmospheric Absorption on a 4.1 mm Wave as a Function of the Height Above Sea Level, by A.G. Kislyakov, V.M. Nikonov, et al. 11 pp. RUSSIAN, per, Izvestiya AN SSSR. Fizika Atmosfery i Okeana, Vol 4, No 3, 1968, pp 321-327. AIR/FTD/MT-24-339-68

Investigation of the Angle Fluctuation of Incoming Laser Emissions in the Near-Earth Layer of the Atmosphere, by B. D. Borisov. RUSSIAN, per, Izv VUZ Fiz., No 1, 1969, pp 103-106. *NASA TT F-12,380

Measurement of Scattered L_{α} - Emission of the Sun in the Upper Atmosphere of the Earth from 1000 to 3500 KM, by Ye. K. Sheffer. RUSSIAN, per, Kosmicheskaya Issledovaniya, Vol 6, No 5, 1968, pp 735-737. NAS/GSFC/ST-AI-SP-10768

Dimensions of the Magnetosphere Tail's Cross Section at Various Intensities of Polar Disturbances, by A. D. Shevnin, Ya. I. Fel'dshteyn. RUSSIAN, per, Kosmich. Issled., Vol 6, No 6, 1968, pp 870-876. NAS/GSFC/ST-PF-GM-10792-69

On the Evolution of the Polar Stratospheric Cyclone and the Interrelationship Between Processes in Troposphere and Stratosphere, by I. G. Poelko. RUSSIAN, per, Meteorol i Gidrol., No 12, 1967, pp 21-32. NLL Ref: 5828.47 (M.7466)

Observations of Noctilucent Clouds, by Ch. I. Villmann. RUSSIAN, bk, Nablyudeniya Serebrisykh Oblakov, 1967, 155 pp. NAS/NASA/TT F-546 69

Soviet Scientists Discuss Air Pollution, 7 pp. RUSSIAN, per, ITU-SSSR, Moscow, No 12, 1968, pp 16-18. JPRS 47639

On the Problem of the Mechanism of the Formation of Ice Crystals in the Atmosphere, by N. V. Gliki. RUSSIAN, per, "Obratov. Kristall" AB. BSSR Minsh Nauch. Sovet. Fiz. Tverd. Tela., pp 74-76. NLL Ref: 5828.47 (M.7466)

Micrometeoritic Investigations in the Near-Earth Space According to Observations on AES "Kosmos-162", by B. P. Konstantinov, M. M. Bredov. RUSSIAN, rpt, From Preprint of AN SSSR, O. Lenina Fiziko-Tekhnicheskii Institut Imeni A. F. Ioffe, Leningrad, 1969. Sci & Tech Info Facility ST-IM-10830

The Development of a Method for 3-10 Day Meteorological Forecasts for the Arctic, by L. A. Dykina. RUSSIAN, per, Problemy Arkt Antarkt, Vol 27, 1967, pp 114-122. NLL Ref: 5828.4F (7454)

Wind Conditions in the Region of the Rybinsk Reservoir, by L. A. Gushchina. 59 pp. RUSSIAN, per, Rybinsk. Gidrometeorologicheskaya Observatoriya. Sbornik Rabot, No 3, 1966, pp 109-159. AIR/FTD/MT-24-261-68

Reference Book on the Climate of the USSR. 363 pp. RUSSIAN, bk, Spravochnik Po Klimatu SSSR, Vol 3, No 21, 1967, pp 1-354. AIR/FTD/MT-24-283-68

Gost 4401-64 Table of Standard Reference Atmosphere, 49 pp. RUSSIAN, bk, Tablitsa Standartnoy Atmosfery, Gost 4401-64, 1964, pp 1-43. AIR/FTD/MT-23-724-68

Turbulent Exchange in the Atmospheric Layer Directly Above the Ocean, by V. G. Snopkov, U. A. Romanov. RUSSIAN, per, Transactions of the Inst of Oceanology of the Academy of Sciences of the USSR, Vol 78, 1965, pp 203-225. NAV/NIC/TRAN-2686-69

Investigation of the Physics of Clouds, by N. S. Shishkin, 23 pp. RUSSIAN, per, Trudy Glavnaya Geofiz. Observ., No 218, 1967, pp 227-240. AEC/SC/Tr-69-1000

Deviation of the Measured Temperature, Humidity, and Wind Speed Gradients at 1 m from Those Calculated by the Logarithmic Law Under Non-Equilibrium Conditions, by A. A. Levenko. 11 p. RUSSIAN, per, Trudy Kiyev. Ukrainskiy Nauchno-Issledovatel'skiy Gidrometeorologicheskii Institut, No 62, 1966, pp 56-64.

AIR/FTD/MT-23-1170-68

The Graphic Reproduction of a Coordinate Network on a Cathode-ray Tube Using a Computer, by Ye. S. Mednikova, K. Ye. Chernin. 12 pp. RUSSIAN, per, Trudy Leningrad. Arkticheskii i Antarkicheskii Nauchno-Issledovatel'skiy Institut, Vol 227, 1966, pp 75-83.

AIR/FTD/MT-23-1041-68

The Question of Optimum Frequency and Accuracy of Meteorological Measurements, by A. V. Sadovnikov. 7 pp. RUSSIAN, per, Trudy Leningrad. Arkticheskii i Antarkicheskii Nauchno-Issledovatel'skiy Institut, Vol 281, 1967, pp 82-85.

AIR/FTD/MT-23-1043-68

On the Possibilities of Forecasting the Variation of Air Temperature During a Month, by D. A. Ped, L. I. Kasleva. RUSSIAN, per, Tr. Len. Gidromet n-i Tsentr, Vol 4, 1967, pp 91-114.

NLL Ref: 5828.4F (7458)

Interconnections of Zonal and Meridional Circulation and Their Anomalies in the Northern and Southern Hemispheres, by G. M. Tauber. RUSSIAN, per, Tr. Len. Gidromet. N-i Tsentr, No 5, 1967, pp 78-103.

NLL Ref: 5828.4F (M.7472)

On the Advisability of Taking Account of Special Features of Forerunners of Summer in Making a Weather Forecast for May and June, by N. A. Sevalkina. RUSSIAN, per, Tr. Len. Gidromet. N-i Tsentr, No 21, 1968, pp 63-68.

NLL Ref: 9022.551 (M.561)

Plunging Depressions and Jet Streams, by V. F. Tsernova. RUSSIAN, per, Tr. Len. Gidromet. N-i Tsentr, No 22, 1968, pp 52-69.

NLL Ref: 5828.4F (M.7463)

On the Use of Forerunners of Pre-Winter in Making Monthly Weather Forecasts, by S. T. Pagava, N. A. Sevalkina. RUSSIAN, per, Tr. Len. Gidromet n-i Tsentr, Vol 23, 1968, pp 3-12.

NLL Ref: 5828.4F (7460)

The Forecasting Value of Forerunners of Natural Synoptic Seasons, by A. M. Altsina.

RUSSIAN, per, Trudy Len. Gidromet n-i Tsentr, Vol 23, 1968, pp 13-20.

NLL Ref: 5828.4F (7459)

On Forecasting Considerable September Air Temperature Anomalies in the European USSR, by N. M. Zaharova.

RUSSIAN, per, Tr. Len. Gidromet n-i Tsentr, Vol 23, 1968, pp 21-30.

NLL Ref: 5828.4F (7453)

The Role of the North Atlantic in the Formation of Spring-Summer Air Temperature Anomalies in the European USSR, by A. N. Kryndin.

RUSSIAN, per, Tr. Len. Gidromet n-i Tsentr, Vol 23, 1968, pp 31-45.

NLL Ref: 5828.4F (7462)

The Contemporary State of Experimental Investigations of Mountain Lee Waves and Certain Recommendations for their Diagnosis and Forecast, by P. A. Vorontsov. 36 pp. RUSSIAN, per, Trudy Leningrad. Glavnaya Geofizicheskaya Observatoriya, No 189, 1966, pp 1-23.

AIR/FTD/MT-24-272-68

Towards an Investigation of Atmospheric Turbulence with the Help of Gliders, by P. A. Vorontsov, M. A. German. 21 pp. RUSSIAN, per, Trudy Leningrad. Glavnaya Geofizicheskaya Observatoriya, No 189, 1966, pp 24-37.

AIR/FTD/MT-24-272-68

Wind Gustiness in the Lower Layers of the Atmosphere, by M. M. Borisenko, V. G. Glukhov. 24 pp.

RUSSIAN, per, Trudy Leningrad. Glavnaya Geofizicheskaya Observatoriya, No 210, 1967, pp 122-136.

AIR/FTD/MT-24-204-68

Investigations of Rising Air Currents with Gliders, by Yu. V. Chernov. RUSSIAN, per, Tr. Tsent. Aerol. Observ., No 63, 1965, pp 70-76.

NLL Ref: 5828.4F (M.7488)

Turbulence in the Lower Layer of the Atmosphere and in Low-Level Clouds, by V. Ye. Mineev. 25 pp.

RUSSIAN, per, Trudy Tsentral'naya Aerologicheskaya Observatoriya, No 71, 1966, pp 76-91.

AIR/FTD/MT-24-352-68

ALL Ref: 5828.47 (M. 7472)

CONSULTANTS BUREAU/PLENUM PRESS

NLL Ref: 9021.7 (2)

CFSTI TT 67-58036

*AFERL

#AFRI

*AFCRL

AIR/FTD/HT-23-735-68

*NASA TT F-12,338

62-50020

Ref: 100-443887-1000

JPRS/47321

JPRS 47821

JPRS 42806

JPRS 47821

NTC 69-10896-05J

NLL Ref: 5196 (1433)

Fish Fauna of the Epipelagic, by N.V. Parin.
186 pp.
RUSSIAN, bk, 1968.
*CFSTI TT 69-59020

Infectiousness of Viral Deoxynucleic Acids,
by I. P. Kok.
RUSSIAN, bk, 1967, pp 106-136.
ACSI J-6293
FSTC-HT-23-953-68

Vertical Distribution of the Oceanic Zooplankton,
by M. Ye. Vinogradov.
RUSSIAN, 1968
*CFSTI TT 69-59015

Some Problems in Preventing Motion Inter-
ferences During Prolonged EKG Investigations,
by Ye. D. Dubrovin. 11 pp.
RUSSIAN, rpt, AN SSSR. IBF. Radioelektronnyye
Pribyry Dlya Biologicheskikh i Meditsinskikh
Issledovaniy, 1966, pp 18-28.
AIR/FTD/HT-23-336-68

Some Problems of Medical Supply of Antarctic Ex-
peditions, by N. R. Deryapa, I. V. Shastin, 11 pp.
RUSSIAN, rpt, Antarktika, 1965, pp 121-128.
JPRS 47746

Soviet Medical Research in the Antarctic, by
I. V. Shastin, 5 pp.
RUSSIAN, rpt, Antarktika, Moscow, 1965, pp 129-132.
JPRS 47746

Study of the L-Transformation of Myco-
bacterium Tuberculosis Under the Influence
of Certain Antibiotics, by
Z. N. Kochemasova, M. M. Dykhno.
RUSSIAN, per, Antibiotiki, Vol 13, No 5,
1968, pp 419-422.
NTC 69-10794-06M

Light Energy Storage by Photosynthetic Organisms
at Low Temperatures, by A. B. Rubin,
P. S. Venediktov, 8 pp.
RUSSIAN, per, Biofizika, Moscow, Vol 14, No 1,
Jan/Feb 1969, pp 105-109.
JPRS 47660

Kinetics of the Action of an Enzyme Capable of
Decapsulating Bacillus Anthracis, by N. Tsanev,
9 pp.
RUSSIAN, per, Biokhimiya, Vol 33, No 5, 1968,
pp 916-920.
ARM/FSTC/HT-23-1042-68

Biological Basis for the Propagation of Woody
Plants by Cuttings, by D. A. Komissarov. 225 pp.
RUSSIAN, bk, Biologicheskie Osnovy Razmnozheniya
Drevesnykh Rastenii Cherenkami, 1964,
CFSTI TT 68-50372

Mathematical Description of Primary Electron Trans-
port Processes in Photosynthesis, by A. B. Rubin,
A. S. Fokht, 12 pp.
RUSSIAN, per, Biologicheskiiye Nauki, Moscow, No
12, 1968, pp 59-67.
JPRS 47660

Some Bionic Aspects of Self-Organization, by
Yu. M. Gasparyan, G. R. Gulkanyan, 6 pp.
RUSSIAN, per, Biologicheskiiy Zhurnal Armenii,
Yerevan, Vol 21, No 11, 1968, pp 74-78.
JPRS 47724

Biology of Selected Groups of Actinomycetes,
372 pp.
RUSSIAN, bk, Biologiya Otdeleneikh Grypp
Aktinomitssetov, 1965.
*CFSTI TT 69-53035

Some Biological Features of Prunus Species of
the Subgenus Padus, by Ye. A. Selivanova-Gorodkova.
9 pp.
RUSSIAN, per, Botanicheskii Zhurnal, Vol 42, No 8,
1957, pp 1258-1266.
*CFSTI TT 69-53018

On the Activity of the Growing Point in Tree
Species in connection with the Sexualization of
Shoots, by I. D. Anikeyeva, et al. 10 pp.
RUSSIAN, per, Botanicheskii Zhurnal, Vol 44,
No 7, 1959, pp 907-916.
*CFSTI TT 69-53020

Some Problems of the Modern Plant Histology,
by M. F. Danilova, et al. 11 pp.
RUSSIAN, per, Botanicheskii Zhurnal, Vol 51,
No 11, 1966, pp 1531-1540.
*CFSTI TT 69-53016

Metals Eliminated from Organism by Complexation,
by O. G. Arkhipova, N. M. Dyatlova, 7 pp.
RUSSIAN, per, Byulleten' Eksperimental'noy
Biologii i Meditsiny, Moscow, No 12, 1968,
pp 66-69.
JPRS 47863

Man in Space, by A. M. Genin.
RUSSIAN, bk, Chelovek v Kosmose, 1967,
pp 1-159.
ACSI J-6215
FSTC-HT-23-900-68

Deep-water Mid-water Fishing, by I. Vorob'ev.
34 pp.
RUSSIAN, bk, Dal'ryba; Tsentral'noe Biuro Tekhnicheskoi Informatsii, Vladivostok, 1967.
*CFSTI TT 69-55096

The Effect of Polysaccharide of Pullularia Prototropha on Irradiated Ehrlich Tumour Cells, by A. G. Lobanok, P. A. Bulanov.
RUSSIAN, per, Doklady AN BSSR, Vol 10, No 6, 1966, pp 430-433.
NLL Ref: 3630.48 (DTC-139)

Inhibition of RNA Synthesis and of Reproduction of Tick-Borne Encephalitis Virus Under the Influence of Ribonuclease, by R. I. Salganik, T. A. Batalina, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Moscow, Vol 180, No 6, 1968, pp 1473-1475.
JPRS 47814

The Effect of Temperature on the Content of Volatile Acids in Seeds and Leaves of Oil-Bearing Plants, by L. P. Zhdanova.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 182, No 3, 1968, pp 719-722.
NASA TT F-12,125

Pharmacological Drugs Which Increase Resistance to Hypoxia, by S. Ya. Arbuzov, L. V. Pastushenkov, 19 pp.
RUSSIAN, per, Farmakologiya i Toksikologiya, Moscow, Vol 32, No 1, Jan-Feb 1969, pp 115-120.
JPRS 47924

Some Biological Peculiarities of Combined Action of Ultraviolet Rays and X-rays on Organisms, by V. A. Baraboy.
RUSSIAN, per, Fiziologicheskii Zhurnal, Vol 14, No 4, 1968, pp 504-513.
*NASA TT F-12,354

Correlation Between Chemiluminescence of Photosynthesizing Organisms and Light Reactions of Photosynthesis, by A. B. Rubin, P. S. Venediktov, 11 pp.
RUSSIAN, per, Fiziologiya Rasteniy, Moscow, Vol 15, No 1, Jan/Feb 1968, pp 34-40.
JPRS47660

Investigation of Production Process on Models of the Simplest Populations of Water Animals, by V. V. Menshutkin, et al. 9 pp.
RUSSIAN, per, Gidrobiologicheskii Zhurnal, Vol 4, No 6, 1968, pp 3-11.
*CFSTI TT 69-59018

A Method for Determining Virus on Surfaces Contaminated by Virus Aerosols, by G. I. Karpukhir, S. V. Slobedenyuk, 7 pp.
RUSSIAN, rpt, Gigiyena i Sanitariya, Moscow, Dec 1968, pp 60-64.
JPRS 47764

General and Municipal Hygiene as Reflected in the East German Journal of Hygiene During 1966-1967, by Ya. M. Grushko, 7 pp.
RUSSIAN, rpt, Gigiyena i Sanitariya, Moscow, Jan 1969, pp 74-77.
JPRS 47642

Cerebral Disturbances in Decompression Disease, by M. P. Yelinskiy, 10 pp.
RUSSIAN, per, Gigiyena Truda i Prof Zab, Vol 9, 1968, pp 16-20.
NMS/1318

Some Aspects of Tissue Dosimetry of Ra²²⁶, by V. M. Malykhin, V. P. Shamov, 27 pp.
RUSSIAN, rpt, Gosudarstvenny Komitet po Ispol Atom Energii SSSR, Np-17201, 1967.
AEC/ANL/Tr-686-68

The Structure and the Development of the Endoparasitic Mollusk Parenterodenos Dogieli.I. The Organization of the Adult Animal, by A. V. Ivanov.
RUSSIAN, per, Izv AN SSSR Ser Biol, No 1, 1947, pp 3-29.
NLL Ref: 3630.48 (DTC-129)

Investigation of Processes of Light-Induced Oxidation of Cytochromes in Photosynthesizing Purple Bacteria, Rhodospseudomonas Species, by A. B. Rubin, A. A. Kononenko, 15 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, Moscow, No 3, 1968, pp 372-381.
JPRS 47660

Changes of Indices of External Respiration, Gas Exchange and Energy Expenditure of a Human Subject During Weightlessness, by I. I. Kac'yan, G. F. Makarov, 16 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Biologicheskaya, Moscow, No 1, 1969, pp 20-29.
JPRS 47735

Determination of Thioformamide and Formamide by the Infrared Spectroscopy Method, by G. M. Gal'p'm, V. F. Andrianov, 5 pp.
RUSSIAN, per, Khimiko-Farmatsevticheskii Zhurnal, No 8, 1967, pp 48-50.
AIR/FTD/HT-23-973-68

Production-Testing of Gamma Irradiation of Potatoes for Prevention of Sprouting, by L. V. Metlitskiy.
RUSSIAN, per, Konservnaya i Ovoshchesushil'naya Promyshlennost, No 1, 1968, pp 23-25.
ACSI J-6536
FSTC-HT-23-269-69

The Alfalfa Weevil of Phytonomus, by V. V. Yakhontov, 240 pp.
RUSSIAN, bk, Listovoi Lyutseymovi Slonik ili Fitonomus, 1934.
*CFSTI TT 69-53038

Achievements in Medical Science, 5 pp.
RUSSIAN, np, Meditsinskaya Gazeta, Moscow, 1 Jan 1969, p 1.
JPRS 47890

Mass Breeding of Aedes Aegypti Mosquitoes, by V. V. Vladimirova.
RUSSIAN, per, Meditinskaya Parazitologiya i Parazitarnyye Bolezni, Vol 35, No 6, 1966, pp 719-723.
ACSI J-6309
FSTC-HT-23-603-68

Body Distribution of Uranium in Dogs Long Periods After the Inhalation of Uranium Oxide, by M. G. Tikhaya, A. P. Novikova et al, 9 pp.
RUSSIAN, per, Med Radiol No 10, 1965, pp 50-54.
AEC/ORNL/Tr-2035-68

Assessment of the State of Health and Principles of Placement for Persons Subjected to the Action of Ionizing Radiation, by A. K. Gus'kova, 8 pp.
RUSSIAN, per, Med Radiol, Vol 13, No 5, 1968, pp 3-9.
AEC-Tr-6964-69

Biological Pest Control Protects Plants, by A. Nikiforov, V. Sukhov, 9 pp.
RUSSIAN, per, Mezhdunarodnyy Selskokhozyaystvennyy Zhurnal, Moscow, No 1, 1969, pp 63-67.
JPRS 47749

Modeling in Biology and Medicine, by N.M. Arsoy, L.S. Alejev, et al. 246 pp.
RUSSIAN, per, Modelirovaniye v Biologii i Meditsine, No 3, 1968, pp 1-208.
AIR/FID/HT-23-883-68

Quantum Yield of Sensitized Photoinactivation of Enzymes, by N. V. Kondakova, L. Kh. Yeydus.
RUSSIAN, per, Molekul Biofiz, 1965, pp 217-228.
NLL Ref: 4792

Investigation of Kinetics of Light-Induced Reactions of Intracellular Cytochromes of Rhodospirillum rubrum Species Bacteria, by A. A. Kononenko, A. B. Rubin, 15 pp.
RUSSIAN, per, Molekulyarnaya Biologiya, Moscow, Vol 2, No 6, Nov/Dec 1968, pp 807-817.
JPRS 47660

Notes on the Structure and Function of the Brain: Table of Contents, Abstract, Preface and Introduction, by S. A. Sarkisov.
RUSSIAN, bk, Ocherki po Strukture i Funktsiy Mozga, 1964, pp 3-17.
NASA TT F-12,210

A Method for Obtaining Clostridium Oedematiens Toxin, by M. R. Nechayevskaya.
RUSSIAN, per, Opisaniye Izobreteniya, No 6, 1967, pp 86-87.
ACSI J-6315
FSTC-HT-23-753-68

A Method of Obtaining Luminescent Sera, by Y. Y. Sklyar.
RUSSIAN, per, Opisaniya Izobreteniya, No 8, 1967, pp 69-70.
ACSI J-6316
FSTC-HT-23-754-68

Classification Key of the Heterobasidiomycetidae of the USSR, by A. G. Raitvir. 114 pp.
RUSSIAN, bk, Opredelitel' heterobazidial'nykh Gribov SSSR - Heterobasidiomycetidae, 1967
*CFSTI TT 69-55093

Sheep Breeding, by A. V. Vasil'ev, et al. 279 pp
RUSSIAN, bk, Ovtsevodstvo, 1955.
*CFSTI TT 69-53036

Memory in Vertebrates: Its Characteristics and Origin, by I. S. Baritashvili.
RUSSIAN, bk, Pamyat' Pozvonochnykh Zhivotnykh, ee Kharakteristika i Proiskhozhdenie, 1968.
CONSULTANTS BUREAU/PLENUM PRESS

Physiological Problems During Prolonged Weightlessness, by N. N. Gurovskiy.
RUSSIAN, rpt, Paper Presented at the 3rd International Symposium on the Basic Environmental Problem of Man in Space, Geneva, 15-19 Nov 1968, 8 pp.
NASA TT F-12,100

Utilization as Food of Fish and Marine Products, by N. T. Berezin. 54pp.
RUSSIAN, bk, Pishchevoe Ispol'zovanie Ryby i Moreproduktov, 1967,
*CFSTI TT 69-55095

Concerning Medical Selection of Men for Arctic and Antarctic Expeditions, by A. L. Matusevich, 8 pp.
RUSSIAN, rpt, Problemy Arktiki i Antarktiki, Leningrad, No 26, 1967, pp 71-76.
JPRS 47746

Fishery Husbandry. 37 pp.
RUSSIAN, per, Rybnoe Khozyaystvo, Vol 45, No 2, 1969. 14 articles
*CFSTI TT 69-59000/2

Fishery Husbandry.
RUSSIAN, per, Rybnoe Khozyaystvo, Vol 45, No 3, 1969.
*CFSTI TT 69-59000/3

Fishes of the Sea of Japan and the Adjacent Areas of the Sea of Okhotsk and the Yellow Sea, Part 2, by G. Yu. Lindberg, M. I. Legeza. 389 pp.
RUSSIAN, bk, Ryby Yaponskogo Morya i Sopredel'nykh Chastey Okhotskogo i Zheltogo Morei, Part 2: Teleostomi XII. Acipenseriformes - XXVIII. Polymeniformes, 1965, 1969,
CFSTI TT 68-50361

The Ixodid Ticks as a Place of Dwelling of Hemosporidia and an Inter-linking of Development of Separate Stages of These Parasites With Metamorphosis of the Tick Hosts. 8 pp.
RUSSIAN, per, Sbornik Nauchnykh Rabot Sibirskogo Zonal'nogo Nauchno-Issledovatel'skogo Veterinarnogo Instituta, Vol 5, 1954, pp 275-282.
*CFSTI TT 69-53033

The Growth of Oak Shoots in Relation to the Fruit-Bearing Process, by L. Ya. Polozova. 15 pp.
RUSSIAN, per, Sobremennaya Institutu Lesa Akademii Nauk SSSR, No 9, 1958, pp 3-17.
*CFSTI TT 69-53022

Lithuanian Public Health Workers Confer, by V. Petrauskayte, K. Lyandzbergas, 9 pp.
RUSSIAN, per, Sovetskaya Litva, Vil'nyus, 9 Jan 1969, pp 1, 3.
JPRS 47630

Handbook on Radiation Safety, by V.F. Kozlov, Yu.S. Troshkin. 258 pp.
RUSSIAN, bk, Spravochnik po Radiatsionnoy Bezopasnosti, 1967, pp 1-277.
A/R/FTD/MT-24-243-68

Thermophysical Characteristics of Substances. 215 pp.
RUSSIAN, bk, Teplofizicheskie Kharakteristiki Veshchestv, No 1, 1968.
*CFSTI TT 69-55091

Disorders of Zinc Metabolism in Patients with Myocardial Infarct, by I. D. Rachinskiy.
RUSSIAN, per, Terapevticheskiy Archiv, Vol 38, 1966, pp 69-71.
*NMS/1323

Fungus Diseases of Pine in the Island Pine Wood of the Transural Forest Steppe, by N. T. Kartavenko. 24 pp.
RUSSIAN, per, Trudy Akademii Nauk SSSR. Institut Biologii, Ural'skii Filial, No 15, 1960, pp 107-130.
*CFSTI TT 69-53017

The Greenling Family and the Possibility of its Transplantation Between two Oceans, 203 pp.
RUSSIAN, rpt, Trudy Akademii Nauk SSSR, Instituta Okeanologii, Vol 59, 1962.
*CFSTI TT 69-55097

On Hazardous Conditions of Atmospheric Pollution from Industrial Sources, by M. Ye. Berlyand.
RUSSIAN, per, Trudy Glav Geofiz Observ., Vol 185, 1966, pp 15-25.
NLL Ref: 5828.4F (7455)

The Biological Bases of the Flowering and Fruit Bearing in Oak, by Ye. G. Minina. 93 pp.
RUSSIAN, per, Trudy Instituta Lesa Akademii Nauk SSSR, Vol 17, 1954, pp 5-97.
*CFSTI TT 69-53021

Ecology and Distribution of Algae on the Continental Coast of the Sea of Okhotsk, by V. B. Vozzhinskaya.
RUSSIAN, per, Trudy Instituta Okeanologii, Vol 81, 1966, pp 153-175.
*NAV/NOO 450

Pelagic and Bathypelagic Fishes on the World Oceans,
RUSSIAN, per, Trudy Instituta Okeanologii, Vol 84, 1967, pp 3-237.
*NAV/NOO contract trans 16

Radiation-Hygienic Conditions in the Far North (1955-1965), by P. V. Kuzayev, M. N. Troitskaya, 9 pp.
RUSSIAN, per, Trudy po Radiatsionnoy Gigiene, No 3, 1967, pp 251-260.
AEC-Tr-7000-69

Peculiarities of the Course of Reparative Processes in Antarctica (Experimental Investigations), by G. A. Barashkov, 14 pp.
RUSSIAN, per, Trudy Sovetskoy Antarkticheskoy Ekspeditsii, Leningrad, Vol 48, pp 329-338.
JPRS 47795

Experience of Medical Services at the Transcontinental Station of Vostok in the Period of the 1960 Antarctic Expedition, by N. V. Bystrov, 6 pp.
RUSSIAN, per, Trudy Sovetskoy Antarkticheskoy Ekspeditsii, Leningrad, Vol 48, 1967, pp 342-346.
JPRS 47795

Methods of Separate Collection of Marine Phyto- and Zooplankton, by G. K. Barashkov.
RUSSIAN, per, Trudy Vsesoyuznogo Gidrobiologicheskogo Obshchestva, Vol II, 1961, pp 416-418.
*NAV/NOO trans 449

Distribution of Cetaceans in Seas Surrounding the Chukchi Peninsula, by I. P. Nikulin. 5 pp.
RUSSIAN, per, Trudy Vses Nauchno-Issled Inst Morskoy Rybnoe Khoz i Okeanografii, Vol 22, 1946, pp 255-257.
NAV/NOO tr 428

Physiology and Biochemistry of Rickettsiae, by L. P. Zubok.
RUSSIAN, per, Usp Sovrem Biol, Vol 61, No 3, 1966, pp 427-442.
*AEC/SANDIA

The Mechanism of the Stimulating Effect of Freund's Incomplete Adjuvant on Antibody Formation, by N. G. Kudryavtseva, 11 pp.
RUSSIAN, per, Vaktsiny i Syvorotki, Materialy Po Proyzvodstvu, No 6, 1966, pp 10-21.
ARM/FSTC/HT-23-424-68

Detoxication of a Purified and Concentrated Diphtheria Toxin by Formalin, by L. V. Larionova, N. N. Vasil'yev.
RUSSIAN, per, Vaktsiny i Syvorotki, Materialy Po Proyzvodstvu, No 6, 1966, pp 81-91.
ARM/FSTC/HT-23-423-68
ARM/FSTC/HT-23-991-68

Mold Fungi Which Destroy Early Russian Mural Paintings, and Their Control, by D. S. Kuritsyna.
RUSSIAN, per, Vestnik Moskovskogo Univ, Biologiya, Pochvovedeniye, No 4, 1968, pp 31-41.
ACSI J-6536
FSTC-HT-23-236-69

Fifty Years of Soviet Clinical Electrophysiology of the Eye, by A. I. Bogoslovskiy, Ye. N. Semenovskaya. 13 pp.
RUSSIAN, per, Vestnik Oftal'mologii (Army), No 5, 1967, pp 62-69.
AIR/FTD/HT-23-359-68

The Development of Refractometry and Means for Optical Correction in the USSR, by V.V. Volkov. 14 pp.
RUSSIAN, per, Vestnik Ofal'mologii (Army), No 5, 1967, pp 69-76.
AIR/FTD/HT-23-359-68

Some Problems of Physiological Optics in Aviation Medicine, by Yu. P. Petrov. 9 pp.
RUSSIAN, per, Vestnik Ofal'mologii (Army), No 5, 1967, pp 77-80.
AIR/FTD/HT-23-359-68

Soviet Military Ophthalmology, by B. L. Polyak. 16 pp.
RUSSIAN, per, Vestnik Ofal'mologii (Army), No 5, 1967, pp 80-86.
AIR/FTD/HT-23-359-68

The Technical Equipment of Modern Ophthalmology, by K.V. Trutneva, L. S. Umnakher. 8 pp.
RUSSIAN, per, Vestnik Oftal'mologii (Army), No 5, 1967, pp 91-94.
AIR/FTD/HT-23-359-68

Electron-Microscope Studies of Border Epithelial Cells of the Small Intestines of Piglets (a) Healthy and (b) Suffering from Infectious Gastroenteritis, by K. N. Yazykova, V. M. Zhuravlev.
RUSSIAN, per, Veterinariya, No 9, 1966, pp 141-147.
NLL Ref: 5828.4F (M.13028)

Hog Cholera Virus Attenuation in Tissue Culture, by V. G. Ayrapetyan, A. B. Khachatryan, 5 pp.
RUSSIAN, per, Veterinariya, No 12, 1967, pp 27-29.
ARM/FSTC/HT-23-1050-68

Sensitivity and Resistance of Anaerobic Micro-Organisms to Antibiotics, by K. A. Sarkisov, F. I. Fagan, 7 pp.
RUSSIAN, per, Veterinariya, No 4, 1968, pp 24-25, pp 37-38.
ARM/FSTC/HT-23-466-68

The Study of Cultural Morphological and Virulent Properties of the B. Mallei, by Tsegmed, N. G. Ipatenko.
RUSSIAN, per, Veterinariya, No 6, 1968, pp 114-116.
ARM/FSTC/HT-23-572-68

Studies of Feeding and Food Relations of Fishes in the USSR for 50 Years, by Ye. V. Borutskiy. 15 pp.
RUSSIAN, per, Voprosy Ikhtiologii, Vol 7, No 5 (46), 1967, pp 801-815.
*CFSTI TT 69-59017

Control of Water Pollution in Southern Waters and Goals in Fisheries Biology Research, 5 pp.
RUSSIAN, per, Voprosy Ikhtiologii, Moscow, Vol 9, No 1, 1969, pp 3-6.
JPRS 47720

Combined Diagnosis of Rabies, by G. A. Kolomakin, T. D. Barinova, 7 pp.
RUSSIAN, per, Voprosy Virusologii, No 4, 1968, pp 470-474.
ARM/FSTC/HT-23-839-68

Interaction of Woody Species in Different Forest Types, by D. D. Lavrinenko. 247 pp.
RUSSIAN, bk, Vzaimodeistvie Drevnykh Porod v Razlichnykh Tipakh Lesa, 1965.
*CFSTI TT 69-53019

Characteristics of the Development of Skin and Wool in Sheep; Age-related Changes. 199 pp.
RUSSIAN, bk, Zakonomenosti Razvitiya Kozhi i Shersti u Ovets; Vozrastnye Izmeneniya, 1965.
*CFSTI TT 69-53637

Development of the Theory of Epidemiology, by I. I. Yelkin, 8 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Moscow, Vol 33, No 7, Jul 1962, pp 137-141.
JPRS 47814

Use of the Statistical Method in the Study of Epidemiological Relationships, by M. K. Tkacheva, 7 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Moscow, Vol 41, No 9, Sept 1964, pp 60-64.
JPRS 47814

Problems in Epidemiological Geography. IV. Zonal, Regional and Residual Nosological Areas, by I. I. Yelkin, V. K. Hashkui', 8 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, Moscow, Vol 42, No 2, Feb 1965, pp 73-80.
JPRS 47814

Production of a Lethal Toxin and Cl. Histolyticum Collagenase on Casein Nutritive Media, by Ye. V. Vlasova, F. F. Tsurikov, 6 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 1, 1966, pp 112-114.
ARM/FSTC/HT-23-512-68

Methodical Features Attending the Work with Bacterial Toxins on Tissue Cultures, by A. A. Yabrov, S. A. Anatoly, 6 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 9, 1966, pp 81-84.
ARM/FSTC/HT-23-340-68

Treatment of Tick-Borne Encephalitis with Ribonuclease, by V. M. Glukhov, A. P. Iyerusalimskiy, 7 pp.
RUSSIAN, per, Zhurnal Nevropatologii i Psikiatrii imeni S.S. Korsakova, Moscow, Vol 68, No 3, 1968, pp 361-365.
JPRS 47814

Quantitative Changes in Nuclear RNA in the Cerebellum and in the Cerebral Cortex of Rats at Different Stages of Conditioning, by V. N. Timkin, S. M. Kuz'min, 10 pp.
RUSSIAN, per, Zhurnal Vysshey Nervnoy Dejatel'nosti, Moscow, Vol 18, No 6, 1968, pp 968-972.
JPRS 47917

Conditioned Cardiac Reflexes, and the Functional and Morphological State of Cortical Neurons when Exposed to Superhigh Frequency Electromagnetic Fields, by M. I. Yakovleva, T. F. Shlyafar, 9 pp.
RUSSIAN, per, Zhurnal Vysshey Nervnoy Dejatel'nosti imeni I. P. Pavlova, Moscow, No 6, 1968, pp 973-978.
JPRS 47938

Determination of Food Requirements of Nutria and Their Range, by V. V. Vinogradov.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 44, No 11, 1965, pp 1712-1720.
ACSI J-6252
FSTC-HT-23-486-68-A

Distribution of Sea Snakes in the South China Sea and East Indian Ocean, by V. P. Shuntov. 9 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 45, No 12, 1966, pp 1882-1886.
NAV/NOO trans 381

Proteolytic Activity of Nerve Tissue, by Ya. V. Belik, L. S. Smerchinskaya, 11 pp.
UKRAINIAN, per, Ukrainskiy Biokhimichnyi Zhurnal, Kiev, Vol 40, No 6, 1968, pp 543-548.
JPRS 47857

Incorporation of Tagged Amino Acids in Nuclear Fraction Proteins of Cat Brain Tissue, by V. G. Avdeyev, 5 pp.
UKRAINIAN, per, Ukrayins'kyy biokhimichnyy zhurnal, Kiev, Vol 40, No 6, 1968, pp 558-560.
JPRS 47814

Urban and Rural Mortality Rates Compared, by Zdravko Bogdanov, 13 pp.
BULGARIAN, per, Statistika, Sofia, Nov-Dec 1968, pp 14-24.
JPRS 47697

Development of Veterinary Science Traced, 6 pp.
BULGARIAN, per, Veterinarna Sbirka, Sofia, No 1, Jan 1969, pp 1-4.
JPRS 47704

Automatic Registration of Sedimentation Curves of Red Blood Cells, by E. Smekal, R. Dvorak.
CZECH, per, Brno. Masarykova Univ Lekarska Fakulta. Spisy, Vol 37, No 6/7, 1964, pp 315-322.
NTC 69-10772-06L

Accelerated Sedimentation of Blood with Automatic Registration, E. Smekal.
CZECH, per, Brno. Masarykova Univ Lekarska Fakulta. Spisy, Vol 37, No 6/7, 1964, pp 323-328.
NTC 69-10773-06L

Determination of Nutrition Deficiencies in Norway Spruce Forests, by Jan Materna, 20 pp.
CZECH bk, Zjistovani Nedostatku Vyzivy Ve Smrkovych Porostech, 1962.
CPSM TT 67-58011

Muscular Exercises Apptitude Under Thermic Constraint, by F. Pirnay.
FRENCH, per, Archives Internationales de Physiologie et de Biochimie, Vol 76, 1968, pp 867-892.
*NASA TT F-12,318

Metabolism and Cellular Toxicity of Ethyl Alcohol, by R. Lowy.
FRENCH, per, Biol Med, Vol 54, 1965, pp 279-302.
NMS/1327

Chromosomes and Radiations: Study of 12 Occupationally Exposed Subjects Affected by Radiodermatitis, by C. Mouriquand, J. Patet et al. 25 pp.
FRENCH, per, Euil Inform Sci Tech, No 94, 1965, pp 3-24.
AEC/ORNL/Tr-1928-69

Physaloptera from Macacus Cynomologus L., by A. Henry, 4 pp.
FRENCH, per, Bull de la Soc de Pathol Exotique, Vol 5, 1912, pp 390-391.
NMS/1321

Remarks on Nitrogen Metabolism in Oenothera Biennis L. With or Without Vernalization, by Claude Picard, 5 pp.
FRENCH, per, Compt Rend No 243, 1956, pp 1665-1668.
AEC-Tr-700

Contribution to the Study of Aerosol Immunization with Diphtheria Antitoxin, by A. Cornet.
FRENCH, bk, Contribution a L'Etude de Immunisation par Aerosol d'Anatoxiene Diphtherique, 1968, pp 1-99.
ACSI J-6349
FSTC-HT-23-40-69
Incl to IR 2752000369

Public Health Minister Outlines Program, by Bentzlm Fofana, 6 pp.
FRENCH, rpt, L'Essor, Bamako, 3 Feb 1969, pp 1-2.
JPRS 47712

So-Called Psychosomatic Pathology and the Polar Environment, by J. Rivolier, F.-J. Perrier.
FRENCH, per, La Presse Thermale et Climatique, No 3, 1965, pp 1-13.
NAV/NIC/TRAN-2790-69

Production of Tinned Sardines From Frozen Fish.
FRENCH, per, Revue de la Conserv, No 8, 1967, pp 121-125.
NHL Ref: 9023.175 (530)

Safety in Coal Dumps and Silos, Parts 1 and 2, by R. Treffel.
FRENCH, per, Rev. Production, Part 1: July 1962, pp 41-45; Part 2: August 1962, pp 30-32.
*BISI 7217

Hygiene and Epidemiology, Part 4.
FRENCH, bk, Le Service de Sante en Indochine 1945-1954, Part 4, pp 691-949.
ACSI J-5021
ID 2204014568

Water Pollution. Treatment of Industrial Wastes, by Louis Antoine.
FRENCH, per, Tech Eau, No 257, 1968, pp 37-51.
*Dept of Navy NIC

Information Processing in the Functional Visual Field, by A. F. Sanders.
GERMAN, rpt, IZF-1967-6, 1967, 16 pp.
NASA TT F-11,408

The Effect of Ethylene Glycol Poisoning on the Submicroscopic Picture of Rat Kidneys, by H. David.
GERMAN, per, Acta Biol Med, Vol 12, 1964, pp 203-21.
NMS/1316

Investigations of the Origin of Nyctitropic Movements of Leaf Organs, by W. Pfeffer.
GERMAN, per, Akad Wiss Abhandl Math Nat Kl., Vol 30, 1907, pp 257-472.
NASA TT F-11,949

Effect of Physical Exertion Involved in Running on the Blood, Especially its Physical Components, by Walter Thoenes. 24 pp.
GERMAN, per, Arbeits Physiologie, Vol 5, 2nd publication, 1932, pp 516-536.
NAV/NIC/Tran-2802-69

About the Ultrastructure of Fish Musculature, by W. Partmann.
GERMAN, per, Archiv fur Fischereiwissenschaft, Vol 12, No 1, 1968, pp 64-77.
NLL Ref: 9023.175 (522)

Uric Acid Degradation and Biosynthesis of the Enzymes Uricase, Glyoxylate Carboligase and Urease in *Hydrogenomonas H 16*, by Heinrich Kaltwasser.
GERMAN, per, Archiv fur Mikrobiologie, Vol 64, 1968, pp 71-84.
*NASA TT F-12,347

Investigations on the Metabolism of the Urea in Microorganisms. VII. Dependence of the Specific Activity of the Enzymes of the Ornithine Cycle and the Urease on the Culture Period and N-source, by L. Eckert.
GERMAN, per, Archiv fur Mikrobiologie, Vol 64, 1968, pp 173-202.
*NASA TT F-12,348

Do Irradiated Foodstuffs Have a Radiomimetic Effect? by A. R. Bugyaki.
GERMAN, per, Atompraxis, Vol 14, 1968, pp 112-118.
*AEC/AERE

Internal Body Dosimetry After ^{90}Sr - ^{90}Y Incorporation in Rats, by K. H. Steinbach, H. Kriegel, 5 pp.
GERMAN, per, Atompraxis, Vol 14, 1968, pp 336-338.
AEC-Tr-7019

Aseptic Appendectomy with Invagination of the Vermiform Process, by K. Wahl, 5 pp.
GERMAN, per, Chir Praxis, Vol 11, 1967, pp 243-245.
NMS/1320

Valuable Knowledge for the Pharmaceutical Practice, by K. Steiger-Trippi.
GERMAN, per, Deutsche Pharmazeutische Gesellschaft Mitteilungen, Vol 29, No 12, 1959, pp 193-205.
NTC 69-10937-060

Relations Between Nuclear Size of Nutritive Cells and Development of Structures Containing Ribonucleic Acid in the Oocytes of *Foranica Rufa Rufo-Pratensis* Minor, by K. Bier.
GERMAN, per, Deutsche Zoologische Ges. Verhandlungen, 1952, pp 369-374.
NTC 69-10963-06C

The Temporal Course of Protein and Carbohydrate Synthesis During Oogenesis in the Honey Bee, by W. Engels.
GERMAN, per, Deutsche Zoologische Ges. Verhandlungen, 1966, pp 243-251.
NTC 69-10964-06C

Swimming Behavior and Speed of Herring Larvae *Clupea Harengus*, by H. Rosenthal. 34 pp.
GERMAN, per, Helgolander Wiss. Meeresuntera, No 18, 1968, pp 453-486.
*TT 69-59023
Available from Bureau of Fisheries only

Early Observation of the Hormone Phase in Radio-Iodine Thyroid-Function Tests, using the 2-Hour Conversion Ratio, by W. Boerner.
GERMAN, per, Klin Wochensh, Vol 43, 1965, pp 78-91.
*AEC/AERE

Deep-Freeze Changes in Fish Muscle Protein and Their Inhibition by Phosphates, by T. Kuusi, et al.
GERMAN, per, Kulda, Vol 19, No 4, 1965, pp 128-130.
NLL Ref: 9023.175 (526)

Scientific
Biological & Medical Sciences (Contd)

The Known Naturally Occurring Carotenoids and Their Absorption Spectra, by P. Karrer.
GERMAN, per, Naturforschende Gesellschaft Zuerich. Vierteljahresschrift, Vol 90, 1945, pp 1-26.
NTC 69-10808-06A

New Possibilities of Topic Diagnosis of Cardiac Infarcts, by P. Malek.
GERMAN, per, Radiol Aust, Vol 18, No 1, 1968, pp 57-64
*AEC

Natural Pigments in Citrus fruits. Part I. Orange and Mandarin Carotenoids, by J. Koch, E. Sajak.
GERMAN, per, Zeit fur Lebensmitteluntersuchung und Forschung, Vol 126, No 4, 1965, pp 260-271.
NTC 69-10910-06H

Investigation of the Chlorogenic Acid Content of Preserves, Jams and Fruit Juices, by O. Hett, G. Lehmann.
GERMAN, per, Zeit fur Lebensmitteluntersuchung und Forschung, Vol 131, No 1, 1966, pp 23-29.
NTC 69-10909-06H

Behavior of the Cervical Column in Relation to the Base of the Skull and the Upper Dorsal Column Upon Impact with Single-Layer or Laminated Safety Glass Used in Automotive Front Windshields, by D. Ziffer.
GERMAN, per, Zentralblatt fur Verkehrs-Medizin, Verkehrs-Psychologie, Luft- und Raumfahrt-Medizin, Vol 13, No 4, 1967, pp 218-239.
NTC 69-10768-06E

Biotelemetric Examinations of the Heart and Circulatory System of Jet Pilots During Flight to Determine a Number of Flight-induced Stresses, by Von H. Hoffmann
GERMAN, per, Zentralblatt fuer Verkehrs-medizin, Verkehrs-Psychologie, Luft und Raumfahrt-medizin, Vol 14, Dec 1968, pp 193-214.
*NASA TT F-12,349

About Synthetic Meat, by F. Lorincz.
HUNGARIAN, per, Husipar, No 5, 1968, pp 229-234.
ACSI J-6297
FSTC-HT-23-061-69

Scientific
Biological & Medical Sciences (Contd)

Evaluation of Radium Exposure by Measuring Exhaled Radon, by Arpad Toth, 21 pp.
HUNGARIAN, per, Kiseri Orvostud, Vol 16, 1964, pp 428-438.
AEC-Tr-7020

MTA Biological Department Presents Annual Report, by Janos Szentagothai, 48 pp.
HUNGARIAN, rpt, Magyar Tudomanyos Akademia Biologiai Osztalyanak Kozlemenyei, Budapest, 1968, pp 1-44.
JPRS 47704

Pharmaceutical Specialties Based on Trypsin and Chymotrypsin. Par. I. Typical Manufacturing Methods, by G. L. Bandi.
ITALIAN, per, il Farmaco, Edizione Pratica, Vol 23, No 4, 1968, pp 207-214.
NTC 69-10774-060

Isotope Scanning of Parathyroid Tissue: Application to a Case of Recklinghausen's Disease Involving an Unusually Situated Adenoma, by A. Centi Colella, F. Pigorini.
ITALIAN, per, Nuntius Radiologicus, Vol 31, 1966, pp 1349-1360.
NLL Ref: 5828.4F (M.13019)

Some of the Basic Problems of the Noise Trauma, by Shiro Nakamura.
JAPANESE, bk, 1964, pp 1-71.
ACSI J-6262
FSTC-HT-23-869-68

Epidemiology of the Bacterial Leaf Blight of Rice, by Yoshiya Tagame.
JAPANESE, per, Annals of the Phytopathological Society of Japan, Vol 31, Mar 1965.
ACSI J-6142
FSTC-HT-23-268-68-W

The Shift of the Prevalence of Disease of Food Crops, Associated with Changes in Variety and in Cultural Practices, by Masa-Akira Hori, Yoshihisa Iizuka.
JAPANESE, per, Annals of the Phytopathological Society of Japan, Vol 31, Mar 1965, pp 67-74.
ACSI J-6145
FSTC-HT-23-268-68Z

Helminthosporium Blight of Rice Plant,
with Special Reference to Pathological
Physiology of the Affected Plants, by
Shigeyasu Akai.
JAPANESE, per, Annals of the Phytopatho-
logical Society of Japan, Vol 31, Mar
1965, pp 193-199.
ACSI J-6138
FSTC-HT-23-268-68 S

**Effects of Chemical Soil Treatment Upon
Plant Pathogens and Soil Microorganisms,**
by Bunkichiro Watanabe.
JAPANESE, per, Annals of the Phytopatho-
logical Society of Japan, Vol 31, No 2,
Dec 1965, pp 427-430.
ACSI J-6141
FSTC-HT-23-268-W-68

**Enzymation of Protein by Microbial Pro-
tease and Its Utilization. Part I. Di-
gestion of Protein by Various Acid Pro-
teases,** by M. Sakamoto, Y. Kozima.
JAPANESE, per, Hakko Kyokaishi, Vol 22,
No 8, 1964, pp 375-379.
NTC 69-10806-06A

**Activities of Enzyme Adsorbed on Adsor-
bents. Part II. Stability of Adsorbed
Enzyme and Effect of Its Saturation,** by
S. Usami, T. Yamada.
JAPANESE, per, Hakko Kyokaishi, Vol 25,
No 12, 1967, pp 513-516.
NTC 69-10805-06A

**Biochemical Studies on Pteria (Pinctada)
Martensii (Dunker) and Hyriopsis Schlegeli
(V. Martens) - VIII: Trace Components in
the Shells of Shellfish (Part I),** by
J. Horiguchi.
JAPANESE, per, Nihon Suisan Gakkaishi,
Vol 25, No 5, 1959, pp 392-396.
Dept of Navy NRL Trans No 1165

**Determination of Serum Glucose by the
Use of Oxygen Electrode and Glucose
Oxidase,** by T. Kajihara, B. Hagihara.
JAPANESE, per, Rinsho Byori, Vol 14,
No 4, 1966, pp 322-327.
NTC 69-10979-06A

**Rigid PVC Compound for Food Containers.
Part II. Conservation Tests,** by
S. Kimura.
JAPANESE, per, Sumitomo Denko, No 96,
1967, pp 102-106.
NTC 69-10799-06H

**Studies of Type F Clostridium Botulinum
I. Properties of Selected Cultures of
the Langeland Strain,** by D. Rymkiewicz.
POLISH, per, Medycyna Doswiadczalna i
Mikrobiologia, 1968, pp 169-174.
ACSI J-6402
FSTC-HT-23-699-68

**Tobacco and Certain Physical and Chemical
Properties of Tobacco Smoke,** by
K. Markiewicz.
POLISH, per, Polski Tygodnik Lekarski,
Vol 20, No 26, 1965, pp 1096-1098.
NTC 69-10798-06T

Hybridization of Poplar, by S. Tyszkiewicz,
W. Chmielewski. 177 pp.
POLISH, per, Prace Instytutu Badawczego
Leśnictwa, No 203, 1961, pp 3-190.
CFSTI TT 67-56026

Eighth X-Ray Radiography Meeting Held in Wrocław,
by K. Lukaszewicz, 7 pp.
POLISH, per, Wiadomości Chemiczne, Wrocław, No 12,
Dec 1968, pp 885-888.
JPRS 47757

**Physico-Technical Aspects of Tablet Mak-
ing,** by P. L. Seth, P. Speiser.
RUMANIAN, per, Pharmaceutica Acta Hel-
vetiae, Vol 41, No 7, 1966, pp 385-405.
NTC 69-10932-060

**Investigation of Effect of Carbonated
Salt Water on Load of Organism Under
High Temperature Working Conditions,** by
I. Gontea.
RUMANIAN, per, Probleme de Terapeutica,
Vol 2, 1955, pp 133-153.
*NASA TT F-12,321

**Statistical Methodology for Study of Public
Immunity to Influenza,** by Al. Calomfirescu,
Al. Dobrescu, 6 pp.
RUMANIAN, per, Studii si Cercetari de Infra-
microbiologie, Bucharest, Vol 19, No 2, 1968,
pp 91-94.
JPRS 47887

**Controlling and Eradicating Infectious
Diseases in Yugoslavia,** by M. Morelj, 36 pp.
SERBO-CROATIAN, per, Narodno Zdravlje,
Belgrade, No 10, 1968, pp 335-341; No 11-12,
1968, pp 388-394.
JPRS 47934

Measures Taken Against Pediculosis, Typhus, by
A. Zdravkovic, M. Andjalkovic, 11 pp.
SERBO-CROATIAN, per, Narodno Zdravlje, Belgrade,
No 11-12, 1968, pp 394-399.
JPRS 47841

Resolutions of Health Commission Amended, 7 pp.
SERBO-CROATIAN, per, Narodno Zdravlje, Belgrade,
No 11-12, 1968, pp 407-409.
JPRS 47841

Extent of Brucellosis in Mis and Leskovac Srezes
in 1955-1966 Discussed, by J. Canic, M. Miskovic,
5 pp.
SERBO-CROATIAN, per, Veterinarski Glasnik,
Belgrade, No 2, 1969, pp 133-136.
JPRS 47676

Report on Incidence, Control of Chagas'
Disease, 6 pp.
SPANISH, per, Momento, Caracas, 9 Mar 1969,
pp 46-47.
JPRS 47820

Chemistry

The Production and the Physicochemical Properties
of Niobium Sulfide, by V.Kh. Oganesyan,
V. F. Bukhanovich, et al. 7 pp.
RUSSIAN, per, Armianskiy Khimicheskiy Zhurnal,
Vol 19, No 3, 1966, pp 161-166.
AIR/FTD/HT-23-330-68

Photocolorimetric Determination of Tellur-
ium, by A. I. Busev.
RUSSIAN, per, Azerb Khim Zh, No 6, 1966,
pp 92-95.
NLL Ref: 9022.4 (68/220)

Ignition of Combustible Mixtures by
Single Impact Sparks and Simulation of
Spark Formation, by S. S. Gestin,
I. I. Strizhevskiy.
RUSSIAN, per, Bezopas Trud Proiz, Vol 12,
No 4, 1968, pp 49-50.
NLL Ref: 8313.4 (5614)

Carbides, by T. Ya. Kosolapova.
RUSSIAN, bk, Carbidy, 1968.
CONSULTANTS BUREAU/PLENUM PRESS

Synthesis of Esters (Plasticizers) Based
on Synthetic Acids, by B. K. Zeinalov,
R. M. Aliyev.
RUSSIAN, per, Doklady Ak Nauk AzerSSR,
Vol 22, No 11, 1966, pp 26-28.
NTC 69-10930-07C

Inertial Precipitation Mechanism of a Coarsely
Dispersed Aerosol on Terrestrial Vegetation, by
V. Ye. Dmaky, 8 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 159, No 6, 1964,
pp 1276-1279.
AIR/FTD/HT-23-656-68

Simultaneous Formation of the Pyrrole and Pyridine
Rings in Fischer's Synthesis (New Synthesis of
a-Carbolins), by A. N. Kozt, L. G. Yudin et al,
7 pp.
RUSSIAN, per, Dokl Akad Nauk SSSR, No 183, 1968,
pp 112-115.
AEC/UCRL/Tr-1389-69

Significance of Molecular Complexes in the Photo-
Chemistry of Chlorophyll, by T. S. Ksenofontova,
I. I. Dilung, 5 pp.
RUSSIAN, per, Dok Akad Nauk SSSR, 183, 1968,
pp 270-273
AEC/ANL/Tr-727-69

Electrochemistry. Electrodeposition of Metals
and Alloys. Issue 1. 181 pp.
RUSSIAN, bk, Elektrokhimiya. Elektroosazhdenie
Metallov i Splavov, Issue 1, 1966, 1969.
CESTI TT 68-50452

Investigation of the Change in Properties
of Polymethylmethacrylate Transparencies
Under the Action of Ultra-violet Irrad-
iation, Vacuum and Temperatures, by
Ye. G. Sentyurin.
RUSSIAN, per, Fiz Khim Mekh Mat, Vol 3,
No 1, 1967, pp 37-41.
NLL Ref: 5809.95 (T.5766)

The Effect of SiO₂ on the Growth of Silicon
Carbide on Silicon, by Ya.V. Kalanch,
I.A. Fel'tyn', et al. 4 ppl
RUSSIAN, per, Izvestiya AN LATSSR. Seriya
Fizicheskikh i Tekhnicheskikh Nauk, No 6, 1966,
pp 99-100.
AIR/FTD/HT-23-726-68

Methods of the Separation of an Organic Substance with Simultaneous Determination of Carbon, Hydrogen and Nitrogen by Gas Chromatography, by M. N. Chumachenko, I. Ye. Pakhomova.

RUSSIAN, per, Izv AN SSSR, Ser Khim, No 2, 1968, pp 235-239.
NLL Ref: 5828.4F (13013)

Triple Chalcogenides of Gallium. (Al^{III} CYI -type), by L. S. Palatnik, Ye. K. Belova.

RUSSIAN, per, Izv AN SSSR, Neorg Mat, Vol 3, No 6, 1967, pp 967-973.
NLL Ref: 8036.625 (208)

The Possibility of Using Alkyl-naphthols as Antioxidants, by G. D. Kharlampovich, L. F. Gol'tsova. 6 pp.

RUSSIAN, per, Izvestiya Vsesikh Uchebnykh Zavedeniy. Khimiya i Khimicheskaya Tekhnologiya, Vol 10, No 7, 1967, pp 789-791.
AIR/FTD/HT-23-459-68

Effects of the Porous Structure of Sintered Bases on the Operational Characteristics of Nickel-Oxide Electrodes of Alkaline Batteries, by V. D. Chebakov.

RUSSIAN, per, Izv VUZ Khim i Khim Tekh, Vol 10, No 10, 1967, pp 1145-1149.
NLL Ref: 9022.4 (68/267)

The Purification of Refinery Waste Waters by Electroflotation, by I. V. Gerasimov, D. N. Karabanov.

RUSSIAN, per, Izv VUZ Nefti i Gaz, Vol 4, No 11, 1961, pp 59-63.
NTC 69-10980-07A

Improvement of the Operation of a Nephelite Coagulant Plant, by N. K. Sarakuz.

RUSSIAN, per, Khimicheskaya Promyshlennost, 1955, pp 361-363.
NTC 69-10938-07A

New Fiber-Forming Polyamides, by O. Ya. Fedotova, M. I. Shtil'man. 6 pp.

RUSSIAN, per, Khimicheskoye Volokna, 1968, pp 5-7.
ARA/FSTC/HT-23-665-68

Characterisation of the Degree of Oxidation of Polycapraamide by the Luminescence Method, by T. S. Mel'nik.

RUSSIAN, per, Khim Volokna, No 3, 1968, pp 8-10.
NLL Ref: 5828.4F (7449)

Analysis of the Flow of Viscose in a Cylindrical Channel, by P. A. Shankin.

RUSSIAN, per, Khim Volokna, No 3, 1968, pp 47-48.
NLL Ref: 5828.4F (7447)

Investigation of the Dispersed Bituminous Substance in Tektites, by

G. G. Vorob'yev, I. A. Petersil'yev.
RUSSIAN, per, Meteoritika, Vol 28, 1968, pp 85-88.
NASA TT F-12,166

Determination of the Oxygen, Hydrogen and Nitrogen Content in Alloys of the Ni-Mg and Ni-Mg-W System, by T. A. Izmanova, Ye. M. Chistyakova. 5 pp.

RUSSIAN, per, Moscow. Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii. Spornik Trudov, No 49, 1966, pp 94-97.
AIR/FTD/HT-23-302-68

Synthesis of Certain Homologs of Adamantane From Adamantane Carboxylic Acid, by S. Landa, Y. Burkhard, et al. 6 pp.

RUSSIAN, per, Neftekhimiya, Vol 8, No 3, 1968, pp 323-325.
AIR/FTD/HT-23-1007-68

Composition of Acids Formed During the Oxidation of Paraffinic Hydrocarbons, by L. I. Yermolayeva, Yu. L. Moskovich.
RUSSIAN, per, Neftepererabotka i Neftekhimiya, No 1, 1968, pp 35-38.
NTC 69-10841-07C

Surface Effects in Polymers.

RUSSIAN, bk, Poverkhnostnye Yavleniya v Polimerakh, 1969.
CONSULTANTS BUREAU/PLENUM PRESS

Possible Relations Between the State of Preservation of Visible Components of Organic Matter, by M. Correia.
FRENCH, per, Revue de l'Inst Francais du Petrole et Annales des Combustibles Liquides, Vol 22, No 9, 1967, pp 1285-1306.
NTC 69-10920-08G

Plant for desorption Deoxygenation of Water, by P. A. Akol'zin.

RUSSIAN, per, Teploenergetika, Vol 4, 1957, No 12, pp 54-57.
NLL Ref: 9022.09 (4894)

Relation between Optical and Catalytic Properties of Certain Binuclear Co-Complexes, by I. M. Reybel, 9 pp.

RUSSIAN, per, Trudy Kishin Selskokhoz Inst., M. V. Frunze, Vol 43, 1966, pp 37-43.
AEC/ANL/Tr-731-69

Catalase Properties of Complex Compounds of Co with Polyamines, by I. M. Reybel, 17 pp.

RUSSIAN, per, Trudy Kishniv Selskokhoz Inst., Vol 43, 1966, pp 51-62.
AEC/ANL/Tr-734-69

Spectrophotometric Study of Co-Complexes with α, α' -Dipyridyl, by I. M. Reybel, 11 pp.

RUSSIAN, per, Trudy Kishinev Selskokhoz Inst., Vol 43, 1966, pp 73-81.
AEC/ANL/Tr-732-69

Study of the Aquation of Multinuclear Complex Compounds of Co by Oscillographic Polarography, by A. A. Gabovich, I. M. Reybel, 14 pp.

RUSSIAN, per, Trudy Kishinev Selskokhoz Inst., Vol 43, 1966, pp 161-171.
AEC/ANL/Tr-730-69

Pinolic Acid, by F. Avotins, et al. 9 pp.
RUSSIAN, per, Uchenye Zapiski Rzhskogo Poletekhn. Inst. Khim. Fak. Vol 2, No 7, 1959, pp 53-61.
*CFSTI TT 69-53027

Hydrogen Bond and Frequencies of Valence Oscillations of N - H NO_2 -Groups of Nitroanilines, by A. Ye. Litskiy, P.A. Chernyavskiy, 7 pp.

RUSSIAN, per, Ukrainskiy Khimicheskii Zhurnal, Vol 32, No 12, 1966, pp 1317-1320.
AIR/FTD/MW-24-340-68

Heat of Wetting of Cotton Cellulose by Organic Liquids, by K. U. Usmanov, et al. 5 pp.

RUSSIAN, per, Uzbekskii Khimicheskii Zhurnal, No 2, 1959, pp 21-25.
*CFSTI TT 69-53028

Analysis of Derivatives and Oxidation of Gossypol, by A. Ismailov, et al. 8 pp.

RUSSIAN, per, Uzbekskii Khimicheskii Zhurnal, No 3, 1959, pp 34-41.
*CFSTI TT 69-53029

Synthesis and Some Properties of Acid Cellulose Phosphites, by Ye. Ye. Nifantsev.

RUSSIAN, per, Vysok Soed., Vol 7, 1965, pp 513-516.
NLL Ref: 5828.4F (7452)

A Study of the Thermal Stability of Several New Polybenzimidazoles which Contain O, P, and B in Their Chains, and also a Study of Mixed Polyamides — and Polyesterbenzimidazoles by Differential Thermal Analysis, by V.V. Korshak, I. F. Manucharova, et al. 9 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya Vol 8, No 5, 1965, pp 777-782.
AIR/FTD/HT-23-376-68

Thermal Structuration of Unsaturated Polyesters by S. V. Vinogradova, V. V. Korshak, et al. 5 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya. Kratkiye Soobshcheniya. Seriya B, No 1, 1967, pp 31-33.
AIR/FTD/HT-23-333-68

Investigation of a Slow Detonation Speed in Nitro-Glycerin, by A. V. Dubovik, V. K. Bobolev.
RUSSIAN, per, Vzryvnoe Delo, No 63/20, 1967, pp 275-278.

NLL Ref: 5828.4F (M.7482)

The Tetrafluoroethylene Production Kinetics and Mechanism by Difluorichloromethane Pyrolysis, by Yu. A. Panshin.

RUSSIAN, per, Zhurnal Fiz Khimiy, Vol 40, No 9, 1966, pp 2226-2230.
NTC 69-10925-07D

Contribution to the Thermodynamics of Certain Hydrocarbons, by Yu. P. Maslov, A. A. Antonov.

RUSSIAN, per, Zhurnal Fiz Khimiy, Vol 41, No 5, 1967, pp 1001-1004.
NTC 69-10924-07D

The Mutual Solubility in Systems of Water-Aliphatic Alcohol-n. $\text{C}_2\text{H}_2\text{n}+2$ (n=6, 7, 8, 9,), by A. I. Vorob'yev, M. Kh. Karapet'yants.

RUSSIAN, per, Zhurnal Fiz Khimiy, Vol 41, No 5, 1967, pp 1144-1149.
NTC 69-10923-07D

The Propagation of a Chemical Reactive Front in solids, by A. A. Abramov, Ye. B. Popov.

RUSSIAN, per, Zhurnal Fiz Khimiy, Vol 41, No 9, 1967, pp 2282-2285.
NTC 69-10926-07D

Modification of Skeletal Nickel Catalyst by Additions of Transition Metals. VIII, by A. B. Fasman.
RUSSIAN, per, Zh Fiz Khim, Vol 42, No 4, 1968, pp 903-08.
NLL Ref: 9022.4 (68/233)

Investigation of the Precipitation of Gelatin from Its Solution with Esters of Sulfosuccinic Acid, by L. M. Bagdanov.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 241-245.
NLL Ref: 5828.4F (12999)

Method of Identification of N-(3', 5'-dicarboxyphenyloctadecylamide) of 1-hydroxy-2-naphtic Acid Color Coupler, by N. Ye. Chebotareva.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 272-274.
NLL Ref: 5828.4F (12992)

Recovery of Silver from Wash Waters by Ionic Exchange Chromatography, by A. B. Davankov, et al.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 14-19.
NLL Ref: 5828.4F (12957)

Thermodynamic Stability of UF₆, by Yu. N. Tumanov, 11 pp.
RUSSIAN, per, Zh Neorg Khim, Vol 13, 1968, pp 1488-1493.
AEC/ANL/Tr-738-69

Detection of Chemical Toxic Agents, by O. V. Vladimirov, 26 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva Imeni D. I. Mendeleeva, Moscow, No 6, 1968, pp 655-666.
JPRS 47645

Individual Means of Protection, by M. V. Sergeyev, M. I. Mikhailov, 19 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva Imeni D. I. Mendeleeva, Moscow, No 6, 1968, pp 675-683.
JPRS 47645

Collective Protection from Weapons of Mass Destruction, by V. K. Semenov, 16 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva Imeni D. I. Mendeleeva, Moscow, No 6, 1968, pp 684-690.
JPRS 47645

Principles of Chemical Agent Casualty Treatment, by Yu. V. Dorokhov, M. A. Baranov, 20 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva Imeni D. I. Mendeleeva, Moscow, No 6, 1968, pp 690-699.
JPRS 47645

Deactivation, Decontamination and Disinfection, by I. G. Petrov, 9 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obshchestva Imeni D. I. Mendeleeva, Moscow, No 6, 1968, pp 699-703.
JPRS 47645

Separation Process Utilizing at Least One Layer of Adsorption, by J. L. Robertson, W. R. Epperly.
BELGIAN, Patent No 667,541.
NTC 69-10815-07A

Process for the Manufacture of Phenol and Acetone from Cumene.
BELGIAN, Patent No 672,051.
NTC 69-10818-07A

Process of Co-Production of a Styrene and a Diolefin.
BELGIAN, Patent No 682,697.
NTC 69-10782-07A

A Process for the Hydrogenation of Nitriles in the Liquid Phase.
BELGIAN, Patent 700,877.
NTC 69-10819-07C

Biopalivove Clanky, by Miroslav Genek.
CZECH, per, Chemické Listy, Vol 62, No 8, pp 927-974.
*AFCL

Removal of Ammonia and Pyridine Bases from Carbonizing Gases by Means of Ammonium Dihydrogen Phosphate, by V. Masek.
CZECH, per, Chemický Průmysl, Vol 17, No 11, 1967, pp 586-590.
BISI 6846

Study of the Relation Between the Structure and Effectiveness of Phosphorous Stabilizers, by D. L. Rysavy, I. Z. Slama.
CZECH, per, Chemický Průmysl, Vol 18, No 1, 1968, pp 20-23.
NTC 69-10972-07C

The Laws of the Movement of Fluids with Respect to the Adhesion of Molecules, by M. Navier.
FRENCH, per, Annales de Chimie, No 19, 1821, pp 244-260.
NLL Ref: 3774.5 (1804)

Hydrolysis of Thorium Chloride, by E. Chauvenet, J. Tonnet, 5 pp.
FRENCH, per, Bull Soc Chim, Serie, 47-48, No 7, 1930, pp 701-703.
AEC/UCRL-Tr-10328

Atmospheric Pollution. and Analytical Chemistry. General Review, by P. Chovin.
FRENCH, per, Bulletin Soc Chem, No 5, 1968, pp 2191-2215.
*Dept of Navy NIC

The Kinetics of Oxidation of Methanol to Formaldehyde with Catalysts Based on Oxides of Fe and Mo. Note I. Kinetic Equation for the Principal Reactions: $\text{CH}_3\text{OH} + 1/2 \text{O}_2 \rightarrow \text{CH}_2\text{O} + \text{H}_2\text{O}$, by M. Dentz, R. Poppi.
FRENCH, per, La Chimica e l'Industria, Vol 46, No 11, 1964, pp 1326-1336.
NTC 69-10985-07A

Fine Structure of the Rotational Lines of Ammonia from $J''=14$ to $J''=18$, by Armand Hadni.
FRENCH, per, Comptes Rendus, Vol 237, 1953, pp 317-319.
Dept of Navy APL/JHU T-2251

K Structure of the Pure Rotational Line of Ammonia $J=15 \rightarrow 14$, by Armand Hadni.
FRENCH, per, Comptes Rendus, Vol 242, 1956, pp 2927-2931.
Dept of Navy APL/JHU T-2252

Macromolecules Electronic Microscopy of the Radiochemical Polymerization of Tetraoxane Monocrystals, by Christian Cannavo, Jacqueline Deschamps, et al, 7 pp.
FRENCH, rpt, Compt Rend, Ser C, Vol 266, 1968, pp 777-780.
AEC/BNL-Tr-256-69

On the Incidence of Absorption $T^* \leftarrow$ in the Measurement of the Decline Rate of Phosphorescence $T \rightarrow S$, by A. Martinez.
FRENCH, per, Comptes Rendus, Ser B, Vol 266, No 22, 1968, pp 1394-1396.
NTC 69-10802-07D

Recent Progress in the Use of Ion Exchange in Sugar Manufacture, by J. Bouchard.
FRENCH, per, Industries Alimentaires et Agricoles, Vol 82, No 7/8, 1965, pp 729-737.
NTC 69-10916-07A

Perfection of Method Conditions for the Formation of Solid Molecular Solutions, by B. Bechet, L. Reinisch, 29 pp.
FRENCH, per, J Chim Phy, Vol 62, No 11-12, pp 1427-1438.
AEC/BNL-Tr-254-69

Oxidation of Zirconium in a Carbon Dioxide Atmosphere, by J. P. Guerlet, P. Lehr, 20 pp.
FRENCH, per, Mem Sci Rev Met, Vol 62, No 2, 1965, pp 151-162.
AEC/FAPD-Tr-112-69

Treatise on the Mechanism of the Dioxidation action of Dithiophosphates During the Oxidation of Tetraline in the Liquid State, by D. Shopov, S. K. Ivanov.
FRENCH, per, Revue de l'Institut Francais du Pétrole et Annales des Combustibles Liquides, Vol 22, No 10, 1967, pp 1520-1529.
NTC 69-10919-07C

Rapid Determination of Trace Elements in Oils, Involving Atomic Absorption Spectroscopic and UV Spectrometric Methods, by M. Puyo.
FRENCH, per, Societe Nationale des Pétroles d'Aquitaine Centre de Recherches de Pau. Bulletin, Vol 1, 1967, pp 453-455.
NTC 69-10917-07C

Process for Manufacture of Water-Insoluble Polymeric Alkaline Metaphosphates, FRENCH, Patent No 904,971.
AEC 69-10814-07A

Toxicity and Determination of Free and Complex Cyanides in Water, by Jan Blaha.
GERMAN, Unknown.
*Dept of Navy NIC

Carbon Disulphide Oxidation Rate of Elementary Reactions, by H. Homann.
GERMAN, per, Berichte der Bunsengesellschaft, Vol 72, No 8, 1968, pp 998-1004.
*Dept of Navy APL/JHU J-1285

Studies on Salts of Oxytrimethylene-Glycine and n-oxy-methyl-Glycine, by Hugo Krause.
GERMAN, per, Chem Ber., Vol 52 B, 1919, pp 1211-1222.
NASA TT F-11,989

Electrolysis of Alkali Chloride, Hydrogen Chloride and Water, by K. Hass, W. Tromm.
GERMAN, per, Chemie-Ingenieur-Technik, Vol 40, No 12, 1968, pp 557-564.
NTC 69-10831-07A

Operation of Methanol Synthesis with a Copper Catalyst, by W. Kotowski.
GERMAN, per, Chemische Technik, Vol 15, 1963, pp 204-205.
NTC 69-10986-07A

The Effect of Nitrogen Compounds on the Hydrocracking of Paraffinic Hydrocarbon Mixtures, by J. Welker.
GERMAN, per, Chemische Technik, Vol 18, No 7, 1966, pp 397-400.
NTC 69-10922-07A

Relationships Between Gas Chromatographic Retentions and Infrared Spectroscopic Frequency Shifts. Polarity Scales, by W. Ecknig, H. Kriegsmann.
GERMAN, per, Deutsche Bunsengesellschaft fur Physikalische Chemie, Berichte, Vol 71, No 6, 1967, pp 587-595.
NTC 69-10844-07D

A Contribution to the Analysis of Petroleum Products. Part IX. Catalytic Hydro-generation of Aromatic Lube Oil Fractions and the Chromatographic Analysis of the Hydrogenation Products, by M. Finke, G. Heinze.
GERMAN, per, Erdoel und Kohl. Erdgas, Petrochemie, Vol 19, No 1, 1966, pp 17-21.
NTC 69-10921-07C

Molecular Order in Polycaprolactam, by H. Hendus, J. Schmieder.
GERMAN, rpt, Festschrift Karl Wurster zum 60. Geburtstag, 1960, pp 293-319.
NTC 69-10807-07C

Corrosion Problems in the Processing of Phenolic Waste Waters from the Brown Coal Industry of the East Elbe Region, by H. Schulz.
GERMAN, per, Freiberger Forschungshefte Reihe A. Bergbau, Vol 220 A, 1962, pp 113-127.
NTC 69-10931-07A

Contribution to the Study of Chemical Behavior of Silicate Glasses.
GERMAN, per, Glastech Berichte, Vol 39, No 3, 1966, pp 147-149.
NLL Ref: 3774.5 (1745)

Notes on Bunte Salts, by Zaki El-Heiveni, Eberhard Taeger.
GERMAN, per, Journal fuer Praktische Chemie, Ser 4, Vol 7, 1958, pp 191-193.
ACSI J-6421
ID 2204002269

Table for Neutron Activation, by F. Baumgartner.
GERMAN, per, Kerntechnik Isotopentechnik und Chemie, Vol 3, No 8, August 1961, pp 357-369.
*BISI 7199

Binding of Solvents by Immobilization, by F. Eirich, H. Mark.
GERMAN, per, Papier-Fabrikant, Vol 35, No 27, 1937, pp 251-258.
NTC 69-10945-07D

Propagation of Explosive Mixtures Near Ground Level at Low Wind Velocities, by H. Wintrich.
GERMAN, per, PTB Mitteilungen, Vol 78, No 2, 1968, pp 86-91.
NLL Ref: 8313.4 (5646)

Progress in the test of Mass Spectrometers as Specific Ionization Detector Indicators for Gies Chromatography, by C. Brunnee.
GERMAN, per, Zeit fur Analytische Chemie, Vol 197, 1963, pp 42-50.
*NASA TT F-12,351

Side-by-side Determinations of Alkali-tetraborate, -Carbonate and -Hydrogen Carbonate by Means of Acidimetric and Alkalimetric Titration Using Potentiometric Indication, by G. Kraft, H. Beck.
GERMAN, per, Zeit fur Analytische Chemie, Vol 222, No 3, 1966, pp 310-319.
NTC 69-10908-07B

Temperature and Incendivity of Grinding Sparks in Various Gas Mixtures, by Hans Wahl.
GERMAN, per, Z Angew Geol, Vol 12, No 2, 1960, pp 60-62
*AEC/SANDIA

On a Hydrogen Compound of Bivalent Iron, by Brigitte Sarxy. 10 pp.
GERMAN, per, Zeitschrift fur Anorganische und Allgemeine Chemie, Vol 228, 1956, pp 41-47.
NAV/NTC/Fran-2822-69

Do Stretched Si-O-Si Bonds Exist? by F. Liebau.
GERMAN, per, Zeit fur Naturforschung, Vol 15 B, No 7, 1960, pp 468-469.
NTC 69-10883-07B

The Absorption Spectra of Oxygen Under High Pressure and the Existence of Tetra-Atomic Oxygen Molecules. 1: Ultraviolet Bands Between 2900 and 2300 A, by W. Finkelnburg.
GERMAN, per, Zeit Physik, Vol 79, 1932, pp 69-88.
NASA TT F-12,108

Desugaring Molasses with Acetic Acid by the Friedrich-Rajtora Method, by V. Rajtora.
GERMAN, per, Zeit fur die Zuckerindustrie der Czechoslovakischen Republik, Vol 49, 1924, pp 100-104.
NTC 69-10911-07A

Process for the Extraction of Iso-Butyraldehyde, by H. Nienburg, W. Hagen.
GERMAN, Patent No 870,841.
NTC 69-10776-07A

Procedure for the Preparation of Epoxy-esters of High-Molecular fatty Acids,
GERMAN, Patent No 968,643.
NTC 69-10786-07C

Process for the Preparation of Aldehydes by the Addition of CO and H₂ to Olefinic Carbon Compounds,
GERMAN, Patent No ST-S 783.
NTC 69-10775-07A

Process for the Preparation of Organic Compounds of Aluminum and Beryllium, by K. Ziegler.
GERMAN, Patent Application Z-1 955.
NTC 69-10766-07C

New Information on the Rapid Analysis of Ores, Mineral and Silicates, by J. Sajo.
HUNGARIAN, per, Acta Chimica, Vol 28, 1961, pp 259-269.
NTC 69-10880-07B

Microscopic Examination of the SrO-TiO₂ System, by Antonio Cocco, Franco Massazza, 19 pp.
ITALIAN, per, Ann Chim, Vol 53, 1963, pp 883-893.
AEC/ORNL-Tr-1819-69

Divinylacetylene, by F. Masuo.
JAPANESE, per, Kagaku Hyoron, Vol 5, No 12, 1939, pp 626-630.
NTC 69-10918-07C

Biochemical Fuel Cells, by Suzuki Shuichi.
JAPANESE, per, Kagaku to Kogyo, Vol 17, 1964, pp 1359-1365.
*AFCLRL

Galvanic Cell With Organic Redox Compound, by J. Mizuguchi, et al.
JAPANESE, per, Kogyo Kagaku Zasshi, No 65, 1962, pp 1606-1608.
*AFCLRL

Biochemical Reaction Cell (II) - Application of Hydrogenose-Methylene Blue System to Anodic Reaction of Cell, by J. Mizuguchi, et al.
JAPANESE, per, Kogyo Kagaku Zasshi, No 67, 1964, pp 1606-1608.
*AFCLRL

Application of an Electron Transfer System Utilizing NH₄Cl-CuSO₄ to the Biochemical Reaction Cell (III), by J. Mizuguchi.
JAPANESE, per, Kogyo Kagaku Zasshi, No 67, 1964, pp 1887-1889.
*AFCLRL

Fuel Cell Using Manganese Redox Reaction, by F. Takahashi, et al.
JAPANESE, per, Kogyo Kagaku Zasshi, No 70, 1967, pp 296-299.
*AFCLRL

Fuel Cell Using a Ferricyanide-Ferrocyanide System, by F. Takahashi, et al.
JAPANESE, per, Kogyo Kagaku Zasshi, No 70, 1967, pp 1075.
*AFCLRL

Double Contact Process for Sulfuric Acid Manufacturing Facility, by Y. Kamimura.
JAPANESE, per, Ryusan, Vol 20, 1967, pp 167-177.
NTC 69-10952-07A

Studies on the Carbonization of Polyacrylonitrile Fiber. Part 1, by K. Miyamichi. JAPANESE, per, Sen-i Gakkaishi, Vol 21, No 12, 1965, pp 635-639.
NLL Ref: 5207 (1306)

Studies on the Electrolytic Preparation of Sugars. Part V. Report on the Industrialization, by J. Mizuguchi. JAPANESE, per, Yakugaku Zasshi, Vol 70, 1950, pp 513-519.
NTC 69-10856-07A

Studies of the Electrolytic Preparations of Sugars. Part VIII. Method of Electrolysis and the Potential of Diaphragm, by J. Mizuguchi, M. Y. Shimizu. JAPANESE, per, Yakugaku Zasshi, Vol 71, 1951, pp 1284-1287.
NTC 69-10838-07A

Monocyclic Polymer Manufacturing Method, by S. Koyanagi. JAPANESE, Patent No SHO 36-3 389.
NTC 69-10765-07A

Problem of Blank Elimination in the Trace Analysis, by J. Swietoslawska. POLISH, per, Chem Anal, Vol 11, No 36, 1966, pp 617-623.
NLL Ref: 9022.09 (4848)

Increase of Viscosity of Epoxy Resins on Curing with Acid Anhydride, by P. Penczek. POLISH, per, Polimery, Vol 12, No 7, 1967, pp 328-331.
NLL Ref: 3774.5 (1799)

The Danger of Explosion of Combustible Vapours and Gases when Mixed with Air, by A. Pilc. POLISH, per, Przem Chem, Vol 45, No 10, 1966, pp 544-546.
NLL Ref: 9022.09 (4863)

Studies on the Electrolytic Preparation of Sugars. Part III. Electrolytic Preparation of Pure Glucose from Starch, by J. Mizuguchi. JAPANESE, per, Yakugaku Zasshi, Vol 70, 1950, pp 506-510.
NTC 69-10855-07A

Changes in Texture of Alumina by the Use of a Surface Active Agent in Its Preparation, by A. Nicolescu, M. Gruia. RUMANIAN, per, Revue Roumaine de Chimie, Vol 10, No 12, 1965, pp 1255-1266.
NTC 69-10854-07A

Zorka Chemical Factory Works on Plant Protection, by Miladen Josifovic, 5 pp. SERBO-CROATIAN, per, Poljoprivreda, Belgrade, No 10, Oct 1968, pp 12-16.
JPRS 47804

Production of Chemical Fertilizer at Zorka, by Milenko Glinic, 9 pp. SERBO-CROATIAN, per, Poljoprivreda, Belgrade, No 10, Oct 1968, pp 17-22.
JPRS 47804

Production of Pesticides at Zorka Enterprise, by Kamenko Ostojic, 11 pp. SERBO-CROATIAN, per, Poljoprivreda, No 10, Oct 1968, pp 23-30.
JPRS 47804

Zorka's Research Service Studies Pesticides, by Tasa Djulizibaric, 7 pp. SERBO-CROATIAN, per, Poljoprivreda, Belgrade, No 10, Oct 1968, pp 31-36.
JPRS 47804

Earth Sciences & Oceanography

Agrochemical Characteristics of the Soils of the USSR: Urals Region, by A.V. Sokolov, et al. 328 pp. RUSSIAN, mono, Agrokhimicheskaya Kharakteristika Pochv SSR: Raioni Urala. *CRSII TT 69-55090

Experiments in Stereophotogrammetric Determination of Depths and Surveying Underwater Relief in Shallow Seas, by N.A. Loseva. 10 pp. RUSSIAN, rpt, AN SSSR. Geograficheskoye Obshchestvo Novyye Problemy i Metody Kartografii, 1967, pp 25-31.
AIR/FTD/HT-23-654-68

The Development of Earth Sciences in the USSR. Volume 1 of 3. (Selected Articles by Selected Authors). 382 pp.
RUSSIAN, bk, AN SSSR. Otdeleniye Nauk O Zemle. Institut Istorii Yestestvoznaniya i Tekhniki. Razvitiye Nauk o Zemle v SSSR. Sovetskaya Nauk i Tekhnika za 50 Let, 1967, pp 1-96 and 113-260.
AIR/FTD/MT-24-291-68

The Development of Earth Sciences in the USSR. Volume 2 of 3. (Selected Articles by Selected Authors). 447 pp.
RUSSIAN, bk, AN SSSR. Otdeleniye Nauk O Zemle. Institut Istorii Yestestvoznaniya i Tekhniki. Razvitiye Nauk o Zemle v SSSR. Sovetskaya Nauk i Tekhnika za 50 Let, 1967, pp 270-715.
AIR/FTD/MT-24-291-68

Alkuchanskii Govin: An Essay of a Stationary Study of a Steppe Landscape, by V.B. Sochava, et al. 167 pp.
RUSSIAN, bk, Alkuchanskii Govin: Opyt Statisticheskogo Izucheniya Stepnogo Landshafta, 1964.
*CFSTI TT 69-55089

Radiophysical Methods of Research in the Arctic Basin and in Antarctica. 216 pp.
RUSSIAN, bk, Arctic and Antarctic Scientific Research Institute. Leningrad, Transactions, Vol 284, 1968.
*CFSTI TT 69-55083

Problems in Polar Geography. 255 pp.
RUSSIAN, bk, Arctic and Antarctic Scientific Research Institute. Leningrad, Transactions Vol 285, 1968
*CFSTI TT 69-55084

Scientific Results of Soviet Antarctic Expeditions. RUSSIAN, bk, Arctic and Antarctic Scientific Research Institute. Leningrad, Transactions of the Soviet Antarctic Expedition, Vol 38, 1968
264 pp.
*CFSTI TT 69-55085

Some Problems of Man's Acclimatization in the Antarctic, by A. L. Matusov, V. P. Ponomarev, 9 pp.
RUSSIAN, per, Byulleten' Sovetskoy Antarkticheskoy Ekspeditsii, No 65, 1967, pp 142-149.
JPRS 47626

Pulmonary Ventilation at Rest in Personnel Wintering at Antarctic Stations, by V. N. Ponomarev, 8 pp.
RUSSIAN, per, Byulleten' Sovetskoy Antarkticheskoy Ekspeditsii, No 69, 1968, pp 55-62.
JPRS 47626

Field Tests of Gas Laser Optical Rangefinders, by A. V. Gondeyev, A. S. Maslennikov, et al. 9 pp.
RUSSIAN, per, Geodeziya i Kartografiya, No 12, 1967, pp 7-13.
AIR/FTD/MT-24-205-68

Geochemistry of Soils of Sodic Salinity, by N. I. Bazilevich. 351 pp.
RUSSIAN, bk, Geokhimiya Pochv Sodovogo Zasoleniya, 1965.
*CFSTI TT 69-55086

Underwater Exploitation of Mineral Resources, by V. N. Kostin, G. A. Nurek, 8 pp.
RUSSIAN, rpt, Gornyy Zhurnal, Moscow, Feb 1968, pp 25-28.
JPRS 47700

Methods of Predicting Avalanche Danger From Snowfall Density in the Tien Shan, by M.P. Shcherbakov. 12 pp.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, Vol 3, 1966, pp 100-111
*CFSTI TT 69-53023

Some Problems of Adjustment and Accuracy Evaluation of the Fundamental Geodetic Nets of the USSR, by P. A. Gaydayev.
RUSSIAN, per, Izv VUZ Geodeziya i Aerofotos'yemka, No 5, 1967, pp 81-92.
*ACIC TC-1539

Investigation of the Distribution of Charges for "free" Short-Lived Radon Decay Products, by A. S. Serdyukova, Ye. I. Savenko.
RUSSIAN, per, Izv VUZ Geologiya i Razvedka, No 8, 1967, pp 116-122.
Dept of Navy NRL Trans No 1166

Geological and Mineralogical Aspects of the Nature of Tektites, by G. G. Vorob'yev.
RUSSIAN, per, Meteoritika, Vol 28, 1968, pp 73-84.
NASA TT F-12,165

Factors Affecting Distribution of Cetaceans, by A. G. Tomilin, 22 pp.
RUSSIAN, per, Migratsii Zhivotnykh, Leningrad, No 2, 1960, pp 3-26.
JPRS 47742

Microorganisms and Organic Matter of Soils, by M. M. Kononova. 291 pp.
RUSSIAN, bk, Mikroorganizmy i Organicheskoye Veshchestvo Pochvy. 1961.
*CFSTI TT 69-55087

The Possibility of Forecasting Storms; Based on Underwater Wave Pressure, by I. I. Stas'. 13 pp.
RUSSIAN, per, Okeanologiya, Vol 7, No 4, 1967, pp 683-691.
AIR/FTD/MT-24-234-68

Equipment and Methods Used for Geomagnetic Studies on the 40th and 41st Cruises of the R/V (Research Vessel) "Vityaz", by Ye. V. Verzhbitskiy, Ye. N. Isayev, 8 pp.
RUSSIAN, per, Okeanologiya, Moscow, Vol 9, No 1, 1969, pp 187-192.
JPRS 47940

Man's Acclimatization in the Antarctic, by G. M. Danishevskiy, V. N. Ponomarev, 16 pp.
RUSSIAN, rpt, Osnovnyye Itogi Izucheniya Antarktika za 10 Let, 1967, pp 147-158.
JPRS 47626

Podzol-Forming Process, by A. A. Rode. 454pp.
RUSSIAN, bk, Podzoloobrazovatel'nyy Pro'tses, 1937.
*CFSTI TT 69-55088

Prospecting by the Use of Radio Waves Transmitted from Boreholes to the Surface of the Ground in One of the Ore Deposits Beyond the Arctic Circle, by A. D. Petrovskiy.
RUSSIAN, per, Prikladnaya Geofizika, No 29, 1961, pp 187-201.
NTC 69-10944-081

Electronic Configurations and Mineral Properties, by A. S. Marfunin.
RUSSIAN, mono, Problemy Kristallokhimiy Mineralov i Endogennogo Mineralobrazovaniya, 1967, pp 29-43.
NTC 69-10850-08G

Twin Symmetry Groups, by V. A. Mokievskiy.
RUSSIAN, mono, Problemy Kristallokhimiy Mineralov i Endogennogo Mineralobrazovaniya, 1967, pp 115-123.
NTC 69-10851-08G

Determination of the Ash Content of Coal Seams from Lateral Logging Data, by V. V. Grechukhin.
RUSSIAN, per, Razvedka i Okhrana Nedr, Vol 29, No 6, 1963, pp 45-50.
NTC 69-10981-08G

Problems of the Theory of Temporary Disturbances of the Gravitational and Magnetic Fields and Movements of the Earth's Surface in Connection with Contemporary Tectonic-Physical Processes in the Earth, by G. I. Karatayev, V. K. Pankrushin.
RUSSIAN, bk, Regionalnyye Geofizicheskiye Issledovaniya v Sibiri, 1967, pp 194-215.
ACIC TC-1486

Investigations of the Physical Properties of Rocks at High Pressures and Temperatures, by M. P. Volarovich.
RUSSIAN, per, Trudy AN SSSR, Inst Fiziki Zemli, No 37, 1966, pp 5-15.
NTC 69-10966-08G

Elastic Wave Velocities in Samples of Indigenous and Metamorphic Rocks at Pressures Up to 4000 kg Per cm², by Ye. I. Bayuk.
RUSSIAN, per, Trudy AN SSSR, Inst Fiziki Zemli, No 37, 1966, pp 16-36.
NTC 69-10969-08G

Variations in the Elastic Parameters of Rocks as a Function of a Triaxial Stress State, by Z. I. Stakhovskaya.
RUSSIAN, per, Trudy AN SSSR, Inst Fiziki Zemli, No 37, 1966, pp 37-45.
NTC 69-10879-08G

Longitudinal Wave Velocities in Sedimentary Rocks of Azerbaydzhan Under Confining Pressures Up to 4000kg/cm², by M. P. Volarovich, Ye. I. Bayuk.
RUSSIAN, per, Trudy AN SSSR, Inst Fiziki Zemli, No 37, 1966, pp 130-139.
NTC 69-10967-08G

On the Study of Longitudinal Wave Velocities in Sedimentary Rocks Filled with Liquids Under High Hydrostatic Pressures, by M. P. Volarovich, G. I. Petkevich.
RUSSIAN, per, Trudy AN SSSR, Inst Fiziki Zemli, No 37, 1966, pp 140-148.
NTC 69-10968-08G

On the Problem of the Influence of Local Factors on the Receipt of Radiation in a Mountainous District, by I. I. Borzenkova.
RUSSIAN, per, Tr. Glav. Geofiz. Observ., No 209, 1967, pp 70-77.
NLL Ref: 5828.4F (M.7487)

The Main Regularities in the Distribution of Glazed Frost Phenomena in the North-Western Regions of the European USSR, by Ye. P. Dranevich.
RUSSIAN, per, Tr. Glav. Geof. Observ., No 232, 1958, pp 3-12.
NLL Ref: 5828.4F (M.7495)

Complex Interpretation of Geological and Geophysical Data on Computers, by Sh. A. Gubermann.
RUSSIAN, epr, Trudy Inst Neftekhim i Gazovoy Promyshlennosti, No 62, 1966, entire issue.
NTC 69-10853-08G

Some Data on the Distribution of Suspended Particles in the Water of the Kurile-Kamchatka Trench, by A. P. Lisitsyn.
RUSSIAN, per, Trudy Instituta Okeanologii, Vol 12, 1955, pp 62-69
*NAV/NOO trans 448

Composition and Distribution of Organic Carbon in the Indian Ocean, by N. D. Storikova.
RUSSIAN, per, Trudy Instituta Okeanologii, Vol 83, 1967, pp 38-50.
*NAV/NOO 451

Distribution and Some Problems in the Elucidation of Oxygen and Phosphate Concentration Extremes in the Pacific Ocean, by V. V. Sapozhnikov, et al.
RUSSIAN, per, Trudy Instituta Okeanologii, Vol 83, 1967, pp 169-176.
*NAV/NOO tr 452

Permanent Currents in the Caspian Sea, by B. A. Shlyamin.
RUSSIAN, per, Trudy Okeanograficheskoy Komissii, Vol 5, 1959, pp 208-213.
*NAV/NOO tr 454

Some Data on Wave Motion in the Caspian Sea, by B. A. Shlyamin.
RUSSIAN, per, Trudy Okeanograficheskoy Komissii, Vol 5, 1959, pp 220-221.
*NAV/NOO tr 453

Numerical Forecasting of Wind Fields and Wave Conditions, by Z. K. Abuzyarov, 20 pp.
RUSSIAN, per, Ordena Lenina Gidrometeorologicheskii Nauchno-Issledovatel'skiy Tsentr SSSR, Trudy, Moscow, No 8, 1967, pp 92-106.
JPRS 47920

Coal Output in January-September 1968 is Analyzed, 10 pp.
RUSSIAN, per, Ugol', Moscow, No 1, Jan 1969, pp 67-70.
JPRS 47868

Method and Equipment for Investigating Turbulent Temperature Fluctuations in the Sea, by N. K. Shelkovnikov, S. F. Mirkotan, 11 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, Seriya III: Fizika, Astronomiya, Moscow, No 1, 1968, pp 25-31.
JPRS 47824

Formation of Liquid Inclusions in Crystals, by G. G. Lemmleyn.
RUSSIAN, mono, Voprosy Geokhimii i Mineralogiy. Ak Nauk SSSR, Otdel Geologo-Geograficheskikh Nauk, 1956, pp 139-141.
NTC 69-10997-08G

Electrothermal Treatment of Oil Wells Discussed, by Kh. Yarulin, G. Ayollo, 5 pp.
RUSSIAN, np, Vyskha, Baku, 4 Feb 1969, p 2.
JPRS 47708

Winter Placement of Cohesive Soils in the Far North, by Ye. N. Batenduk, et al. 112 pp.
RUSSIAN, bk, Zimnyaya Ukladka Soyaznykh Gruntov na Kraynem Severe, 1968.
*CESTI TT 69-55098

An Atlas of Fish Sounds, No 3, by I. D. Nikol'skiy, V. R. Protasov, 46 pp.
RUSSIAN, bk, Zvuk Ryb -- Atlas, Moscow, 1968, pp 4-51.
JPRS 47707

Analysis of Siliceous Rocks by X-Ray Fluorescence Spectrometry, by A. Guillemaut, K. Mohadjer.
FRENCH, rpt, CEA 3286.
NLL Ref: 5828.4F (M.13046)

On the Extension of the North Africa Gravimetric Net to the French Sahara, by J. Lagrula.

FRENCH, per, Africain au Sahara de L'Institut de Recherches Sahariennes, Vol 8, 1952, pp 4-7, 20-26.

*ACIC TC-1535

Gravimetric Study of Algeria-Tunisia, by J. Lagrula.

FRENCH, per, Bulletin du Service de la Carte Geologique de L'Algerie, 4th Series Geophysics, No 2, 1951, 114 pp.

*ACIC TC-1534

Mutual Transformation of Alkaline Feldspars: Reproduction of Microline and of Albite, by J. Wyart, G. Sabatier.

FRENCH, per, Bulletin Societe Francaise de Mineralogie et Cristallographie, Vol 79, 1956, pp 574-581.

NTC 69-10825-08G

Investigations Concerning the Structural Form of Water Which Had Become Absorbed in Montmorillonite, J. Mamy.

FRENCH, per, Comptes Rendus, Ser D, Vol 266, No 9, 1968, pp 851-853.

NTC 69-10803-08G

The Subnival Zone and Its Delimitation in the Alps of the Grisons and Valais, by Gerhard Furrer.

GERMAN, per, Geographica Helvetica, No 4, 1965, pp 185-192.

ACSI J-6517

FSTC-HT-23-139-69

A Contribution to the Exploration of Thin Layers in Seismic Reflection Surveying, by R. Graupner.

GERMAN, per, Geophysik und Geologie, No 10, 1967, pp 53-70.

NTC 69-10863-08K

The Golets Terraces, by Hans Richter.

GERMAN, per, Petermanns Geog Mitt, No 3, 1963, pp 183-192.

ACSI J-6518

FSTC-HT-23-214-69

Points Worth Observing When Determining Peat Density, by J. Niggermann.

GERMAN, per, Torfnachrichten, Vol 18, No 3/4, 1967, pp 5-6.

NTC 69-10990-02C

Harmonic Analysis of Earth Tides by the Procedure of Lecolazet and Venedikov, by M. Bonatz.

GERMAN, per, Zeit fur Vermessungswesen, Vol 92, No 9, 1967, pp 373-375.

ACIC TC-1504

Theory of Determining the Position of the Center of the Reference Ellipsoid from Observations of Artificial Earth Satellites, by M. Bursa.

ITALIAN, per, Studia Geophysica et Geodaetica, Vol 9, No 3, 1965,

pp 225-229.

ACIC TC-1492

Formula for Determining the Resistance of Coal Dust to the Propagation of Explosions, Depending on the Size of the Dust Particles and the Content of Non-Combustible Matter and of Free Water, by W. Cybulski.

POLISH, per, Archiwum Gornictwa, Vol 13, No 1, 1968, pp 3-19.

NIL Ref: 8313.4 (5623)

Limiting Explosive Concentration of Coal Dust as a Function of the Particle Size of the Coal Dust and of its Content of Incombustible Matter, by W. Cybulski.

POLISH, per, Archiwum Gornictwa, Vol 13, No 1, 1968, pp 113-132.

NIL Ref: 8313.4 (5669)

Correlation Between the Quantity of Bed Load and Suspended Load in Rivers, by Walenty Jarocki.

45 pp.
POLISH, per, Archiwum Hydrotechniki, Vol 14, No 4, 1967, pp 535-570.

CFSTI TT 66-57039

Geodesy. Volume 2. Leveling, by

Zygmunt Kowalczyk. 476 pp.

POLISH, bk, Geodezja — Tom 2. Niwelacja, 1968.

CFSTI TT 61-11320

The Influence of Filtration in the Body of a Gravity Dam on its Stability, by

Boleslaw Jacenkov. 79 pp.

POLISH, per, Rozprawy Hydrotechniczne, No 16, 1965, pp 3-86.

CFSTI TT 67-56071

Maritime and Fishing Information.

POLISH, per, Technika Igospodarka Morska, Oct 1968,

*Dept of Navy NIC

Mitroga Cites 1968 Mining Gains, 1969 Tasks, by Jan Mitroga, 9 pp.
POLISH, per, Wiadomosci Gornicze, Katowice, No 1, Jan 1969, pp 1-5.
JPRS 47730

The Influence of Aquatic Vegetation on River Discharge, by Zbigniew Paslawski, 65 pp.
POLISH, per, Wiadomosci Sluzby Hydrologicznej i Meteorologicznej, Vol 2, No 54, 1963, pp 1-39.
CFSTI TT 67-56053

Geology of the Cape Verde Archipelago, by J. B. Babiano.
PORTUGUESE, per, A Geologia do Arquipelago de Cabo Verde, Commun. Serv. Geol. Portugal, Vol 18, 1932, pp 227-243.
*NAV/NOO contract trans 18

Progress of Rumanian Mining Discussed, by Bujor Almasan, 10 pp.
RUMANIAN, per, Lupta de clasa, Bucharest, Feb 1969, pp 8-16.
JPRS 47882

Stratigraphic Traps in Seismic Prospecting by N. Ionescu.
RUMANIAN, per, Petrol si Gaze, Vol 18, No 9, 1967, pp 473-476.
NTC 69-10957-081

1969 Terrain Asset Developments Outlined, by Nicoleana Popescu, 6 pp.
RUMANIAN, per, Revista de Geodezie, Cadastru si Organizarea Teritoriului, Bucharest, No 1, Jan-Feb 1969, pp 3-7.
JPRS 47937

Role Played by Land Cadastre Fully Detailed, by Scarlat Georgescu, 5 pp.
RUMANIAN, per, Revista de Geodezie, Cadastru si Organizarea Teritoriului, Bucharest, No 1, Jan-Feb 1969, pp 13-16.
JPRS 47937

History of Vojvodina Petroleum Industry Reviewed, by Miroslav Vujkov, 5 pp.
SERBO-CROATIAN, per, Tehnike Novine, Belgrade, No 3, Mar 1969, pp 8-9.
JPRS 47756

Soils of Yugoslavia, by Gjorgji Filipovski, Miliwoje Ciric, 500 pp.
SERBO-CROATIAN, bk, Zemljista Jugoslavije, CFSTI TT 67-58024

Maximum Water Utilization Ensured by Waterworks, by Alberto Pozo, 15 pp.
SPANISH, per, Bohemia, Havana, 7 Mar 1969, pp 36-45.
JPRS 47950

Electronics & Electrical Engineering

Synthesis of Sequential Asynchronous Logic Automata Designed With Three Types of Modules, by Ye. A. Yakovlev, V. G. Gorbets, 14 pp.
RUSSIAN, rpt, AN SSSR. Institut Elektroniki i Vychislitel'noy Tekhniki, 1967, pp 25-37.
AIR/FTD/MT-23-1096-60

Investigations of the First Photosynthetic Processes by Electronic Paramagnetic Resonance Methods, by A. N. Terenin.
RUSSIAN, bk, Akademiyu Nauk SSSR Nauchnyy Sovet Po Problemy Fotosintez, 1965, pp 3-25.
*AFRL

Theoretical Problems, Associated With the Joint Operation of Standard Computers as a Single System, by D. A. Pospelov, 8 pp.
RUSSIAN, rpt, AN SSSR. Sibirskoye Otdeleniye. Institut Matematiki. Vychislitel'nyye Sistemy. Trudy Simpoziuma, May 1966, 1967, pp 56-62.
AIR/FTD/MT-24-304-68

Estimate of Performance Indices of one Computer System, by A. K. Romanov, B. P. Zelentsov, et al, 6 pp.
RUSSIAN, rpt, AN SSSR. Sibirskoye Otdeleniye. Institut Matematiki. Vychislitel'nyye Sistemy. Trudy Simpoziuma, May 1966, pp 79-84. 1967
AIR/FTD/MT-24-304-68

Model Language for Controlling Computing Medium, by Yu. I. Klykov, D. A. Pospelov, 5 pp.
RUSSIAN, rpt, AN SSSR. Sibirskoye Otdeleniye. Institut Matematiki. Vychislitel'nyye Sist. y. Trudy Simpoziuma, May 1966, pp 138-142. 1967.
AIR/FTD/MT-24-304-68

Organization of the Distribution of Information in a Specialized Computer for the Control of Electronbeam Technological Processes of Micro-circuit Preparation, by V.P. Derkach, G.T. Makarov, et al, 10 pp.
RUSSIAN, per, AN UKRSSR. Institut Kibernetiki. Seminar. Fiziko-Tekhnologicheskiye Voprosy Kibernetiki, No 1, 1967, pp 46-55.
AIR/FTD/MT-24-267-68

Slot Antennas, Chapter 8, by G. B. Reznikov, 31 pp.
RUSSIAN, bk, Antennny Letatel'nykh Apparatov, Moscow, pp 301-334.
JPRS 47643

Antenna Electric Strength, Chapter 10, by G. B. Reznikov, 34 pp.
RUSSIAN, bk, Antennny Letatel'nykh Apparatov, Moscow, pp 367-401.
JPRS 47643

Control of Transformation Ratio Using a Regulator with Logic Elements, by M. G. Rozhkov, Ye. L. Sirotinskiy.
RUSSIAN, per, Elekt Stantsiy, Vol 38, No 4, 1967, pp 70-75.
NLL Ref: 9022.09 (4691)

Operation of Shielded Conductors in 300 MW Turbo-generators, by R. A. Marinov.
RUSSIAN, per, Elekt Stantsiy, Vol 39, No 2, 1968, pp 85-87.
NLL Ref: 9022.03 (4278)

Electrical Repair Enterprises Use New System, by S. L. Pruzner, N. G. Orlova, 8 pp.
RUSSIAN, per, Elektricheskkiye Stantsii, Moscow, No 2, 1969, pp 2-5.
JPRS 47832

Some Special Features of Synchronous Machines with a Super-conductive exciting Winding, by I. I. Treshep.
RUSSIAN, per, Elektrichestvo, No 2, 1967, pp 42-46.
NLL Ref: 3774.5 (1753)

The Electrical Characteristics of Three-Phase Busbars With Hollow Cylindrical Conductors, by G. S. Borchaninov, A. Ya. Virkovskiy.
RUSSIAN, per, Elektrichestvo, No 3, 1968, pp 1-6.
NLL Ref: 5828.4F (M.13058)

Additional Losses in the Stator Frame of a 3-phase Electrical Machine, by A. K. Chernovets.
RUSSIAN, per, Elektrichestvo, No 3, 1968, pp 73-75.
NLL Ref: 9022.03 (4276)

Longitudinal Plasma Streams in an Electric Arc, by O. B. Bron, L. K. Sushkov.
RUSSIAN, per, Elektrotekhnik, Vol 37, No 12, 1966, pp 1-5.
NLL Ref: 9022.09 (4692)

Starting a Roll Rotor Motor, by A. I. Bertinov, V. V. Varlay.
RUSSIAN, per, Elektrotekhnik, No 12, 1966, pp 19-22.
NLL Ref: 3774.5 (1847)

Transformers With Windings of Non-Circular Cross Section, by A. O. Shmidt.
RUSSIAN, per, Elektrotekhnik, No 1, 1968, pp 23-25.
NLL Ref: 3774.5 (1845)

The Informational Principles of the Transmission of Messages, by N. I. Klyuyev, 315 pp.
RUSSIAN, bk, Informatsionnyye Osnovy Peredachi Soobshcheniy, 1966, pp 1-360.
AIR/FTD/HT-23-1642-67

New Assignments of the Metrological Service, 9 pp.
RUSSIAN, per, Izmeritel'naya Tekhnika, Moscow, No 1, Jan 1969, pp 3-6.
JPRS 47830

Progress in Electrical Engineering Discussed, by N. Obolenskiy, 5 pp.
RUSSIAN, np, Izvestiya, Moscow, 20 Feb 1969, p 2.
JPRS 47708

Tuned Filter in a Waveguide, by P. Kard, 10 pp.
RUSSIAN, per, Izvestiya AN ESTSSR. Fizika, Matematika, Vol 16, No 3, 1967, pp 330-336.
AIR/FTD/MT-24-342-68

Nonstationary Processes in Electric-arc Heaters, by L.A. Safronov, V. L. Lebsak, 16 pp.
RUSSIAN, per, Izvestiya AN SSSR. Sibirskoye Otdeleniye. Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 102-111.
AIR/FTD/MT-24-219-68

Electrode Voltage Drops During Interaction of Plasma With Electric Field in an Electric Discharge Tube, by Yu. P. Kashkin, 10 pp.
RUSSIAN, per, Izvestiya AN SSSR. Sibirskoye Otdeleniye. Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 129-134.
AIR/FTD/MT-24-219-68

12-Channel High Sensitivity Spectrum-Analyzer for Measuring Low Frequency Noise, by V. Ye. Yamnyy.
RUSSIAN, per, Izv VUZ Priborostroyeniye, Vol 10, No 2, 1967, pp 34-36.
ACSI J-6314
FSTC-HT-23-569-68

Ceramic High-Voltage Capacitors K-15Y-1, K15Y-2, and K15Y-3.

RUSSIAN, bk, Kondensatory k Ramicheskiye Vysokovoi'tnyye K-15Y-1, K-15Y-2, K-15Y-3, 1 Jan 1968, 53 pp.
ACSI J-6108
FSTC-HT-23-762-68

Turbulent Heating of Plasma by a Current, by Ye. K. Zavoytskiy, S. L. Nedoseyev, et al. 17 pp.
RUSSIAN, rpt, Konferentsiya po Issledovaniyam v Oblasti Fiziki Plazmy i Upravlyayemykh Termoyadernykh Reaktsiy, 3d Novosibirsk, 1968. Doklady, Mezhdunarodnoye Agentstvo po Energii, 1968, pp 1-24.

AIR/FTD/HT-23-1159-68

The Ideal Magnetization of Ferrite Cores With Rectangular Hysteresis Loops Used as Analog Memory Elements, by V. P. Zinkevich. 9 pp.

RUSSIAN, per, Moscow. Institut Avtomatiki Telekomunikatsii. Voprosy Tekhnicheskoy Kibernetiki, 1966, pp 80-85.

AIR/FTD/HT-23-421-68

Third All-Union Conference on Information Search Systems and Automated Processing of Scientific and Technical Information. 12 pp.

RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya. Seriya 2. Informatsionnyye Protsessy i Sistemy, No 6, 1967, pp 26-29.

AIR/FTD/HT-23-676-68

A Method of Increasing the Accuracy and Speed of a Digital Integrator, by V. V. Kokhanov, T. M. Andreyeva. 9 pp.

RUSSIAN, per, Nauchno-Tekhnicheskaya Konferentsiya po Avtomaticheskomy Upravleniyu i Elementam vychislitel'noy Tekhniki. Materialy, 1965, No 8, 1967, pp 78-85.

AIR/FTD/HT-23-705-68

Planning of Combat Actions and Control of Troops With the Help of Pert Charts, (Selected Sections), by P.G. Skachko, G.T. Volkov, et al. 39 pp.

RUSSIAN, bk, Planirovaniye Voyevykh Deystviy i Upravleniye Voyskami s Pomoshch'yu Setevykh Grafikov, 1968, pp 37-44 and 123-142.

AIR/FTD/MT-24-406-68

The Use of Electronic Computers in Architectural and Structural Design, by G. G. Patruncov. 14 pp.

RUSSIAN, rpt, Primenie Elektronnykh Vychislitel'nykh Mashin v Arkhitekturm-Stroitel'nykh Proektirovani, 1966, pp 7-18.

AIR/FTD/MT-24-319-68

Programming for the M-20, Besm-3M, Besm-4, M-220 Digital Computers, by V.F. Lyashenko. 439 pp.

RUSSIAN, bk, Programirovaniye dlya Tsifrovyykh Vychislitel'nykh Mashin (M-20, BESM-3M, BESM-4, M-220), 1967, pp 1-432.

AIR/FTD/MT-24-242-68

Determination of the Spatial and Frequency Separation Between Radio Equipment Producing Mutual Interference in the Ultra-Short Wave Band, by V. F. Fchelkin, 21 pp.

RUSSIAN, per, Radiotekhnika, Moscow, No 1, 1969, pp 1-11.

JPRS 47777

Data Processing Applied to Plant Management, by A. Zaturenskiy, 5 pp.

RUSSIAN, no, Sovetskaya Belorussiya, Minsk, 21 Jan 1969, p 2.

JPRS 47648

Radar Fundamentals, Automatic Systems, and Reliability Theory, by A. M. Pedak, 47 pp.

RUSSIAN, bk, Spravochnik po osnovam radio-lokatsionnoy tekhniki, Moscow, 1967, pp 29-39; 51-67; 170-174; 464-467; 583-585.

JPRS 47864

ODRA-1003 Universal Digital Computer, by S. Tomaszewski. 5 pp.

RUSSIAN, rpt, Sredstva i Metody Mekhanizatsii Podgotovki i Poliska Nauchno-Tekhnicheskoy Informatsii, Inzhenernogo i Upravlencheskogo Truda. Lektsii, Prochitaniye na Wystavke "Inforga-65", 1965, pp 167-170.

AIR/FTD/HT-23-281-68

Statistical Characteristics of the Quadrature Components of Signals Reflected From a Randomly Rough Surface, by S. G. Zubkovich, 28 pp.

RUSSIAN, bk, Statisticheskiye Kharakteristiki Radiosignalov Otrazhennykh ot Zemnoy Poverkhnosti, Moscow, 1968, pp 74-103.

JPRS 47663

An Information and Control System by Inter-connected Computers, by S. R. Buachidze. 7 pp.

RUSSIAN, per, Trudy Gruzinskiy Politekhnikheskiy Institut, No 1, 1965, pp 95-100.

AIR/FTD/HT-23-278-68

The Problem of Automating the Collection, Processing, Storage and Dissemination of Information on the Hydrometeorological Regime, by N. K. Klyukin.
RUSSIAN, per, Trudy Nauchno-Issled Inst Aeroklimatologii, No 54(4), 1968, pp 3-17.
NAV/NIC/TRAN-2772-69

Computing Media, by Ye. V. Yevmainov. 5 pp.
RUSSIAN, rpt, Trudy Simpozium po Vychislitel'nyy Sistemam, 1966, pp 109-112, 1967
AIR/FTD/MT-24-385-68

Analog and Quasi-Analog Computing Media, by G. Ye. Pukhov, B. A. Borkovskiy. 12 pp.
RUSSIAN, rpt, Trudy Simpozium po Vychislitel'nyy Sistemam, 1966, 1967, pp 152-164.
AIR/FTD/MT-24-374-68

The Adaptation Principles in Uniform (Iterative Circuit) Structures, by A. V. Veyts. 7 pp.
RUSSIAN, per, Trudy Simpozium po Vychislitel'nyy Sistemam, 1966, 1968, pp 177-182.
AIR/FTD/MT-24-386-68

Investigating Superconducting Memory Elements, by V. F. Kuznetsov, V. V. Nikitin, et al. 7 pp.
RUSSIAN, rpt, Trudy Simpozium po Vychislitel'nyy Sistemam, 1966, 1967, pp 278-283.
AIR/FTD/MT-24-374-68

Digital Method of Optimal Processing of Radar Signals, by S. V. Samsonenko, 285 pp.
RUSSIAN, bk, Tsifrovyye Metody Optimal'noy Obrabotki Radiolokatsionnykh Signalov, Moscow, 1968, 319 pp.
JPRS 47627

Radiometer Measurements of Water Surface Temperature, by N. P. Sadimova, L. D. Konovalova, 18 pp.
RUSSIAN, per, Vestnik Leningradskogo Universiteta, Leningrad, Vol 1, No 6, 1968, pp 108-120.
JPRS 47698

Computers Used to Figure Yield of Grain Harvest, by L. Vashchukov, G. Novikov, 9 pp.
RUSSIAN, rpt, Vestnik Statistiki, Moscow, Dec 1968, pp 14-19.
JPRS 47836

Transmission of Vocoder Signals Over Small-capacity Binary Channels, by V. I. Kulya.
RUSSIAN, bk, Vsesoyuznaya Nauchnaya Sessiya Posvyaschennaya Denyu Radio 22d, 1966, pp 48-53.
ACSI J-6308
FSTC-HT-23-48-69

Computers Proposed for use in Choreography, by Yevgeniy Maslin, 7 pp.
RUSSIAN, rpt, Znaniye -- Sila, Moscow, Dec 1968, pp 24-26.
JPRS 47572

Possibilities of a Sensitometric System in Electroradiography, by R. A. Kavalyayskas, I. V. Syrelevich.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 24-28.
NLL Ref: 5828.4F (12959)

Matrix of a Memory Device on Cylindrical Thin Magnetic Tape, by O.V. Roenitskiy. 3 pp.
RUSSIAN, Patent No. 187,839, 26 Oct 1965, pp 1-2.
AIR/FTD/MT-23-30-68

Device for the Syntactical Control of Programs in Algol, by I.V. Vel'bitskiy, G.A. Mikhaylov, et al 5 pp.
RUSSIAN, Patent No. 191,230, 20 Sep 1965, pp 1-3.
AIR/FTD/MT-23-30-68

Thin-Tape Memory Matrix, by G.P. Zharikov, V.V. Zvyagintsev. 2 pp.
RUSSIAN, Patent No. 191,637, 15 Oct 1965, pp 1-2.
AIR/FTD/MT-23-30-68

A Magnetic Disk Unit, by V. I. Fel'dman. 2 pp.
RUSSIAN, Patent No. 195,500, 2 Apr 1966, pp 1-2
AIR/FTD/MT-23-273-68B

Employment of Properties of Ge Magneto-diodes to Measure Magnetic Induction, by J. Betko.
CZECH, per, Elektrotechnicky Casopis, Vol 19, No 2, 1968, pp 144-147.
NTC 69-10761-09A

The Switching Network of the Pericles-Michelet Automatic Exchange, by J. Duquesne.
FRENCH, per, Commutation et Electronique, No 20, 1968, pp 17-35.
NLL Ref: 922281 (2490)

Details of the Long-distance Measurement System from the ESRO-1/AURORAE Satellite.
by J. Toussaint.
FRENCH, per, ESRO/ELDO Bulletin, Apr 1969, p 5, pp 17-22.
*NASA TT F-12,355

Analysis of Methods of Loss Elimination in the Metallic Sheathing of Single-core a.c. Cables, by M. Fallou.
FRENCH, per, Rev Gen Elect, Vol 74, No 6, 1965, pp 481-489.
NLL Ref: 9022.09 (4916)

Gaseous Dielectrics, by G. Wind.
FRENCH, per, Rev Gen Elect, Vol 77, No 1, 1968, pp 52-56.
NLL Ref: 9022.09 (4192)

How to Meet the Requirements for E.H.V. Circuit-breakers: Design Possibilities and Future Trends, by E. Thuries.
FRENCH, per, Rev Gen Elect, Vol 77, No 1, 1968, pp 77-84.
NLL Ref: 9022.09 (4874)

Achievements and Ideas of Delle-Alsthom in E.H.V. Circuit-breaker Design, by E. Thuries.
FRENCH, per, Rev Gen Elect, Vol 77, No 1, 1968, pp 85-88.
NLL Ref: 9022.09 (4872)

CEM-Gardy Circuit-Breakers, by J. Passaquin
FRENCH, per, Rev Gen Elect, Vol 77, No 1, 1968, pp 92-98.
NLL Ref: 9022.09 (4913)

Protection of Semi-Conductors in the Event of Internal Short Circuits in a High Power Rectifier, by J. Bekink.
FRENCH, per, Rev. Gen. Elect., Vol 77, No 2, 1968, pp 213-216.
NLL Ref: 3774.5 (1857)

Technical Developments in Overhead Transmission Lines - Part II, by F. Quey, M. Lorin.
FRENCH, per, Technique Moderne, Vol 60, No 2, 1968, pp 65-75.
NLL Ref: 9022.09 (4908)

A New Method of Discrimination in Roentgenography (Planigraphy),
GERMAN, per, Acta Radiologica, Vol 13, 1932, pp 182-192.
Dept of Navy APL/JHU T-2248

Geometric Fourpole Representation of a Double Transformer, by Johann de Buhr, 13 pp.
GERMAN, per, Arch Elek Uebertrag, Vol 10, 1956, pp 45-49.
AEC/SLAC-Tr-91-69

A Bi-stable Multivibrator Circuit for the Gigahertz Range, by H. Jungmeister.
GERMAN, per, Archiv der Elekt Ubert. Vol 21, No 9, 1967, pp 447-458.
NLL Ref: 5809.95 (T.6061)

The Nonlinear Distortion of a Noise Signal with Normal Distribution, by E. Kettel.
GERMAN, per, Archiv der Elekt Ubert. Vol 22, No 4, 1968, pp 165-170.
NLL Ref: 9022.81 (2489)

Article on the Calculation of the Thermal Runaway Voltage of Insulating Systems With a Solid Dielectric, by W. Taschner, W. Widmann.
GERMAN, per, E.T.Z., Vol 87A, No 20, 1966, pp 713-717.
NLL Ref: 3774.5 (1836)

The High Performance free-jet Air-blast Circuit Breaker, by K. Kriechbaum.
GERMAN, per, E.T.Z., Vol 88 A, 1967, No 9, pp 213-217.
NLL Ref: 9022.09 (4724)

Thyristor Excitation of Large Synchronous Machines, by W. Hochstetter, P. Roesner.
GERMAN, per, E.T.Z., Vol 89 A, No 6, 1968, pp 121-128.
NLL Ref: 3774.5 (1789)

Rating of Thyristors with High Inverse Voltages, by G. Kohl.
GERMAN, per, E.T.Z., Vol 89 A, No 6, 1968, pp 131-135.
NLL Ref: 3774.5 (1791)

The Probability of Breakdown of High Voltage Insulation, by P. Dokopoulos.
GERMAN, per, E.T.Z., Vol 89 A, No 7, 1968, pp 145-150.
NLL Ref: 9022.09 (4891)

Semiconductor Converters for High Voltage d.c. Transmission, by E. Anwander.
GERMAN, per, ETZ, Vol 89 A, 1968, pp 183-189.
NLL Ref: 9022.09 (4952)

Reactive Power Requirements and Filter Circuits for h.v.d.c. Power Transmission, by C. Berger.
GERMAN, per, E.T.Z., Vol 89 A, 1968, pp 197-203.
NLL Ref: 9022.09 (4964)

The Performance of a d.c. Transmission System with Externally Controlled Invertors, by C. Bader.
GERMAN, per, E.T.Z., Vol 89 A, 1968, No 11, pp 263-265.
NLL Ref: 3774.5 (1818)

Considerations on the Accidental Initiation of Electric Detonators by Static Electricity, by W. Scharwachter.
GERMAN, per, Nobel Heft, Vol 33, No 5/6, 1967, pp 231, 237-243.
NLL Ref: 8313.4 (5557)

Method of Determination of Errors of AC voltage Dividers Up to 350V with Frequencies from 0.5 to 10 kc/s, by H. Schlinke.
GERMAN, per, PTB Mitteilungen, No 2, 1968, pp 111-120.
NLL Ref: 5809.95 (T.6099)

The Design of Filter Circuits for h.v.d.c. Transmission, by D. Povh, M. Schraudolph.
GERMAN, per, Siemens Zeit, Vol 41, No 12, 1967, pp 953-959.
NLL Ref: 9022.09 (4906)

Time Probabilities of Tolerances in the Video Channel, by H. Dobesch.
GERMAN, per, Tech Mitt des RFZ, Vol 12, No 2, 1968, pp 57-59.
NLL Ref: 9022.81 (2506)

Shielded Microphone, by Alfred Much, 4 pp.
GERMAN, Patent No 822,251.
Dept of Comm
Patent Office

The Relationship Between the Recovery Pattern in Auditory Fatigue and Noise Susceptibility, by Kazuo Tsundoa.
JAPANESE, per, Vol 69, 1966, pp 2088-2096.
ACSI J-6404
FSTC-HT-23-870-68

Automation and Cybernetics in a Modern Army, by A. Iwaszkiewicz, M. Stolarski, et al. 134 pp.
POLISH, bk, Automatyka i Cybernetyka We Wspolczesnej Armii, 1965, pp 1-344.
AIR/HT/HT-23-896-67

New Datika-1 Electronic Accounting Computer Described, by Janez Korenini, 14 pp.
SERBO-CROATIAN, per, Elektrotehnicki vjesnik, Ljubljana, Jun-Aug 1968, pp 61-65.
JPRS 47816

Electronic Data-Processing Center in Karlovac Described, 7 pp.
SERBO-CROATIAN, per, Komuna, Belgrade, No 12, Dec 1968, pp 34-36.
JPRS 47676

Energy Conversion (Non-Propulsive)

Power Resources of Angara Basin Discussed, by S. Karmukhov, 5 pp.
RUSSIAN, per, Proraucheskaya Gazeta, Moscow, Feb 1969, p 27.
JPRS 47720

CEMA Fuel, Power Problem Tied to Technical Gains, by M. Sokolov, 9 pp.
RUSSIAN, per, Ekonomicheskoye Nauki, Moscow, No 1, 1969, pp 68-73.
JPRS 47837

Overall Power supply to City Consumers, by A. A. Glazunov, Yu. A. Fokin, 14 pp.
RUSSIAN, per, Elektrichestvo, Moscow, No 2, 1969, pp 29-34.
JPRS 47832

Deaeration of Make-up Water in Turbine Condensers, by G. D. Bukhman.
RUSSIAN, per, Elekt Stantsiy, Vol 30, No 7, 1959, pp 38-41.
NLL Ref: 9022.09 (4876)

Operation of Turbo-generators with Under-excitation, by G. M. Khutoretskiy, V. I. Kosachevskiy.
RUSSIAN, per, Elektrotehnika, Vol 39, No 2, 1968, pp 6-9.
NLL Ref: 9022.03 (4283)

Production, Operation of Starobeshevskaya Gres, by A. I. Kul'chitskiy, 6 pp.
RUSSIAN, per, Energetika i Elektrifikatsiya, Kiev, No 1, 1969, pp 6-9.
JPRS 47868

Scientific
Energy Conversion (Non-Propulsive) (Contd)

The Influence of Nozzle Angle on the Efficiency of Impulse Stages, by V. D. Pshenichnyy. 10 pp. RUSSIAN, per, Energomashinostroyeniye, No 12, 1966, pp 20-22.
AIR/FTD/MT-24-344-68

Projected Plans for Moscow Heat and Electric Power, by L. Ya. Solovov, A. G. Yanovskiy, 14 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 4-11.
JPRS 47750

Increased Use of Electric Household Appliances, by A. V. Ryabushin, I. A. Kulikov, 5 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 15-18.
JPRS 47750

United System to Operate Central Heating Urged, by A. S. Khor'kov, M. L. Vornovitskiy, 5 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 23-24.
JPRS 47750

Moscow Heat Supply Problems Discussed, by A. A. Iyamin, 5 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 24-26.
JPRS 47750

Improving the Central Heating System in Moscow, by V. A. Chugreyev, 6 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 27-28.
JPRS 47750

Consolidation of Boiler Houses Planned, by A. D. Tsoy, 5 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 31-33.
JPRS 47750

Contact-Surface Boiler Efficiency Analyzed, by M. I. Tsysin, 6 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 34-36.
JPRS 47750

Reliability and Safety of Moscow Gas Supply, by A. I. Skorniyakov, 8 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 40-45.
JPRS 47750

Scientific
Energy Conversion (Non-Propulsive) (Contd)

Automation, Remote Control in Gas Service, by A. F. Noarov, Yu. Ye. Grigor'yev, 8 pp. RUSSIAN, per, Gorodskoye Khozyaystvo Moskvyy, Moscow, No 11, 1968, pp 45-58.
JPRS 47750

Capacitors for Fluorescent Lighting, by V. T. Renne, V. A. Akopyan. RUSSIAN, per, Izv VUZ Energetika, No 12, 1967, pp 120-123.
NTC 69-10940-10C

Potentialities of Hydrocracking Process Analyzed, by L. I. Yerkina, S. A. Faygin, 9 pp. RUSSIAN, per, Khimiya i Tekhnologiya Topliv i Masel, Moscow, No 3, 1969, pp 29-33.
JPRS 47930

Use of Radioisotope Indicators in Delayed Coking, by D. Ya. Muchinskiy, K. A. Krestinskiy, 5 pp. RUSSIAN, per, Neftepererabotka i Neftekhimiya, Moscow, No 2, 1969, pp 39-41.
JPRS 47907

Planning of Fuel and Power Balance Outlined, by S. Fel'd, V. Shul'ga, 19 pp. RUSSIAN, per, Planovoye Khozyaystvo, Moscow, Feb 1969, pp 66-77.
JPRS 47720

Standards for High-Voltage Electrical Insulation, by A. V. Sapozhnikov, 5 pp. RUSSIAN, per, Standarty i Kachestvo, Moscow, No 12, 1968, pp 20-21.
JPRS 47669

Proceedings of World Power Conference Noted, by K. D. Lavrenenko, 8 pp. RUSSIAN, per, Teplotoenergetika, Moscow, No 12, 1968, pp 85-87.
JPRS 47669

Increasing Large System Heat Supplies Proposed, by V. A. Kinkov, 17 pp. RUSSIAN, per, Teplotoenergetika, Moscow, No 2, 1969, pp 2-7.
JPRS 47832

1969 Soviet Coal Industry Plan Outlined, by B. F. Bratchenko, 8 pp. RUSSIAN, per, Ugol', Moscow, No 1, 1969, pp 2-7.
JPRS 47669

Pump Unit for Two-Circuit Fuel Systems for Power Plants, by L. S. Arinushkin, V. I. Dumov, et al. 2 pp.
RUSSIAN, Patent No. 187,527, 5 Oct 1963, p 194.
AIR/FTD/MT-23-721-68

'Energo-projekt' Develops Construction of Power Plants, 6 pp.
CZECH, np, Energetik, Prague, 20 Feb 1969, p 2.
JPRS 47730

North Moravian Power Production Discussed, by Karel Malina, 5 pp.
CZECH, rpt, Energetik, Prague, 6 Mar 1969, pp 3-4.
JPRS 47825

Powerful Sonic and Ultrasonic Generators With Coupled Emitters, by Vladimir Gavreau, Albert Calasora. 18 pp.
FRENCH, rpt, Generateurs Puissants de Sons et d'Ultra-sons a Emetteurs Couples.
Enclosure to IR 1 832 0213 68 18 Sept 1968
NAV/NIC/Tran-2785-69

Problems and Options Concerning Helium Turbines, by Jean Chaboseau, E. Maillet, 13 pp.
FRENCH, rpt, Symposium on Advanced and Gas-cooled High-Temperature Reactors, IAEA, SM-111/52, Oct 1968
AEC/ORNL/Tr-3011-69

Water Problems in Steam Power Stations - Recent Discoveries and Progress, by H. G. Heilmann.
GERMAN, per, Mitteilungen VGB, No 90, 1964, pp 171-190.
NLL Ref: 9091.9F (WH Trans 226)

Investigations of Flow at Turbine Blades, by O.-A. von Schwerdtner.
GERMAN, per, Siemens Zeitschrift, No 41, 1967, (Supplement 113-115).
NLL Ref: 3774.5 (1841)

Semiconductors in Heavy Current Industry, by Jozsef Ambrozy, 14 pp.
HUNGARIAN, per, Muszaki Fejlesztés, Budapest, 7 Mar 1969, pp 13-19.
JPRS 47909

Yugoslav Electrical Institute's Work Outlined, by Vekoslav Korosec, 6 pp.
SERBO-CROATIAN, per, Elektrotehnicki Vesnik, Ljubljana, Sept-Oct 1968, pp 158-160.
JPRS 47737

Tikves Hydroelectric Power Plant Discussed, by Djordje Srna, 5 pp.
SERBO-CROATIAN, per, Gradjevinar, Zagreb, Jan 1969, pp 1-3.
JPRS 47737

Investigation of Shipbuilding Concretes, by V. A. Mishutin.
RUSSIAN, bk, 1967, pp 173-179.
*Dept of Navy NavShips Trans No 1174

Automation of Electric Arc Welding of Curvilinear Joints, by N.S. L'vov. 8 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protsessov Svarki i Obrabotki Davleniyem, 1966, pp 48-52.
AIR/FTD/MT-24-200-68

Prospects for Automation Gas-Flame Oxygen Cutting, by S. G. Guzov. 7 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protsessov Svarki i Obrabotki Davleniyem, 1966, pp 96-99.
AIR/FTD/MT-24-200-68

Measuring of Thermal Conductivity of Metals at High Temperature, by V. Ye. Ivanov, V. M. Anonov, et al. 13 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii, Eksperimental'naya Tekhnika i Metody Vysokotemperaturnykh Izmereniy, 1966, pp 30-37.
AIR/FTD/MT-24-354-68

Preliminary Results of Study of High Temperature Adhesive Action and Friction of Oxides and High Melting Metals With Oxides in a Vacuum and in Gas Media, by A.P. Serenov, V.V. Pozdnyakov. 8 pp.
RUSSIAN, rpt, AN SSSR, Institut Metallurgii, Struktura i Svoystva Zharcoprochnykh Metallicheskikh Materialov, 1967, pp 109-114.
AIR/FTD/MT-23-656-68

Fatigue of Alloys at High Temperatures in Statistical Aspects, by S.V. Serensen, L.A. Kozlov. 12 pp.
RUSSIAN, rpt, AN UKSSR, Institut Problem Materialovedeniya, Temprochnost' Materialov i Konstruktsionnykh Elementov, 1965, pp 137-146
AIR/FTD/MT-24-355-68

Aircraft Materials Research (Selected Chapters), by B. K. Vil'f, K. P. Romadin. 136 pp.
RUSSIAN, bk, Aviatsionnoye Materialovedeniye, 1967, pp 210-233; 241-301.
AIR/FTD/MT-23-832-68

The Effect of High Strength Concrete Moulding Technology on the Physico-Mechanical Properties, by A. Ye. Golikov.
RUSSIAN, per, Beton i Zhelezobeton, No 9, 1967, pp 34-35.
NLL Ref: 5828.4F (M.13038)

Use of Maraging Steels for the Surfacing of Forging, by K. V. Gorev.
RUSSIAN, per, Dok AN BSSR, Vol 12, No 1, 1968, pp 43-46.
NLL Ref: 9022.4 (68/246)

Critical Parameters of Alkali Metals, by P. L. Kirillov. 29 pp.
RUSSIAN, per, Doklady Obninsk. Fiziko-Energeticheskiy Institut, No 52, 1966, pp 1-32.
AIR/FTD/MT-24-392-68

Effect of Oil Flow on Thrust Bearing Temperatures, by Ye. I. Zaretskiy, Yu. I. Mishchenko.
RUSSIAN, per, Elekt Stantsiy, Vol 39, No 2, 1968, pp 36-38.
NLL Ref: 9022.03 (4272)

Tendency to Brittle Fracture of High-strength Structural Steel Rotors, by P. D. Khinskiy.
RUSSIAN, per, Energomashinsotroyeniye, No 12, 1966, pp 33-37.
NLL Ref: 9022.09 (4754)

Effect of Lacing Wire Couplings in the Vibrational Stability of Turbine Blades, by D. A. Arkad'yev.
RUSSIAN, per, Energomashinostroyeniye, No 3, 1968, pp 6-9.
NLL Ref: 3774.5 (1813)

Development of Polygonization in Silicon Iron With Fatigue, by M. G. Lozinskiy, A. N. Romanov. 12 pp.
RUSSIAN, per, Fizika i Khimiya Obrabotki Materialov, No 3, 1967, pp 67-74.
AIR/FTD/MT-24-515-68

Effect of Temperature and Degree of Deformation in Thermomechanical Working of Nickel on its Heat Resistance, by M. G. Lozinskiy, N. Z. Pertsovskiy. 10 pp.
RUSSIAN, per, Fizika Metallov i Metallovedeniye, Vol 23, No 2, 1967, pp 262-267.
AIR/FTD/MT-23-366-68

Changes in Structure and Substructure of Deformed Molybdenum on Heating, by M. L. Bershteyn, V. G. Lyuttsau, et al. 5 pp.
RUSSIAN, per, Fizika Metallov i Metallovedeniye, Vol 23, No 2, 1967, pp 340-342.
AIR/FTD/MT-23-366-68

Production by Electroforming of Thin-Walled models in Nickel, by G. Rohde.
RUSSIAN, per, Galvanotekhnika, Vol 59, 1968, pp 407-420.
NLL Ref: 9022.4 (68/230)

Prognosis of the Deepest Local Scour in Cohesive Materials, by Ts. E. Mirtskulava. 5 pp.
RUSSIAN, per, Gidrotekhnicheskoe Stroitelstvo, No 8, 1968, pp 54-58.
*CFSTI TT 69-53032

Removal of Non-Metallic Inclusions During Electro-slag Remelting, by S. A. Iodovskiy, V. V. Panin.
RUSSIAN, per, Izv AN SSSR, Metally, No 2, 1968, pp 115-121.
NLL Ref: 9022.4 (68/252)

Flow Process and Break-Up of a Metal Jet into Drops, by A. A. Ryzhikov.
RUSSIAN, per, Izv. VUZ Chern. Met., No 3, 1967, pp 140-143.
BISI 6556

Ductility of Iron-Chromium-Nickel Alloys, by M. A. Zaikov.
RUSSIAN, per, Izv VUZ Chern Met, Vol 11, No 4, 1968, pp 98-101.
NLL Ref: 9022.4 (68/239)

An Increase in the Mechanical Properties of Low Alloy Steels by Small Additions of Calcium-Silicon, by L. M. Kuznetsova, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 5, 1968, pp 139-142.
BISI 6864

On the Influence of Dimensions and Weight of Ingots on the Productivity of a Blooming Mill, by N. I. Baimov.
RUSSIAN, per, Izv. VUZ Chern. Met., No 6, 1968, pp 86-91.
*BISI 7167

The Interaction of Nitrogen with Molten Alloys of Types E1617, EP220 and EP109, by A. G. Fridman.
RUSSIAN, per, Izv. VUZ Chern. Met., No 7, 1968, pp 49-53.
BISI 6887

Relationship Between Desulphurisation and Temperature During the Refining Period of a Heat, by V. G. Kocho, et al.
RUSSIAN, per, Izv. VUZ, Chern. Met., No 8, 1968, pp 50-55.
BISI 6868

Scientific
Materials (Contd)

Dust Formation in the Tandem Steelmaking Furnace, by F. D. Voronov, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 8, 1968, pp 62-64.
*BISI 6869

Calculation of Idling Time (Including Edging Time) During Blooming Mill Rolling, by V. L. Mukhomorov.
RUSSIAN, per, Izv. VUZ Chern. Met., October 1968, pp 81-85.
*BISI 7203

Investigation of the Continuous Plate Rolling Process Based on a Mathematical Model Employing an Electronic Computer, by V. P. Polukhin.
RUSSIAN, per, Izv. VUZ Chern. Met., October 1968, pp 86-92.
*BISI 7204

Influence of Slag Viscosity Upon Elimination of Non-Metallic Inclusions in the Electroslag (Steelmaking) Process, by V. V. Khlynov, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 9-13.
*HB 7765

Interaction of Nitrides with Oxygen and Oxides, by Yu. G. Gurevich.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 18-22.
*HB 7759

Distribution of Blast and Natural Gas Over the Tuyeres and Composition of Gas Across the Blast Furnace Section, by A. D. Gotlib, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 23-27.
*HB 7758

Effect of Rare-Earth Metals on Rate of Crystallization of Continuous-Cast Carbon Steel Billets, by A. P. Molchanov, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., 1968, No 12, pp 41-43.
*HB 7770

Kinetics of Surfacing of Non-Metallic Inclusions in Liquid Steel, by D. Ya. Povolotskiy.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 42-46.
*HB 7763

Scientific
Materials (Contd)

Effect of Synthetic Slag on the Non-Metallic Inclusions in Ball-Bearing (1%C, 1.5%Cr) Steel, by V. G. Pegov, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 59-62.
*HB 7771

Effect of Slag Composition and Deoxidizing Practice on Quality of Ball-Bearing Steel, by N. M. Chuiko, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 59-63.
*HB 7765

Effect of Initial Structure on Service Performance of Cast Cutting Tools, by N. F. Kalashnikova, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 120-122.
*HB 7761

Effect of Carbon on Properties of Cast High-Speed Steels, by I. A. Erofeev, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, 136-139.
*HB 7762

Desulphurization of Pig Iron in Ladle by Injecting Powdered Lime with Air, by A. N. Pokhvisnev, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 144-149.
*HB 7768

Factors Governing the Ultrasonic Treatment of Liquid and Solidifying Alloys, by E. V. Vygodskiy.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 150-153.
*HB 7769

Supervision of Steel (Bath) Composition by the Thermal EMF Method, by V. Yu. Kaganov, et al.
RUSSIAN, per, Izv. VUZ Chern. Met., No 12, 1968, pp 182-185.
*HB 7767

The Vulcanisation of General Purpose and Special Rubbers by P-Quinonedioxime, by S. G. Zhavoronok.
RUSSIAN, per, Izv. VUZ Khim. i Tekhnol., Vol 11, No 2, 1968, pp 225-231.
NIL Ref: 5828.4F (M.13048)

Infiltration Method for Production of TiC-Based Cermet, by S. S. Kiparisov, et al.
RUSSIAN, per, Izv. VUZ-Tsvetn. Met., No 6, 1968, pp 127-130.
*HB 7744

Some Peculiarities of the Mechanism of Detergency of the Succinimides, by I. F. Blagovidov.
RUSSIAN, per, Khim i Tekh Topliv i Masel, No 7, 1968, pp 41-45.
NLL Ref: 9022.9 (1147)

Polypyromellitimide Fibers; Their Obtainment and Their Physical and Mechanical Properties, by A. P. Rudakov, M. I. Bessonov, et al. 8 pp.
RUSSIAN, per, Khimicheskiye Volokna, No 5, 1966, pp 20-23.
AIR/FTD/MT-23-371-68

Causes of Radial Pore Formation in Polyacrylonitrile Fibers, by M. S. Mezhirov, Ye. A. Pakshver.
RUSSIAN, per, Khim Volokna, No 3, 1968, pp 13-16.
NTC 69-10866-11E

The Hydromechanical Extrusion of Thin-Walled Tubes, by V.I. Zalesskiy, B. S. Verkshin. 10 pp.
RUSSIAN, per, Kuznechno-Shtampovoye Proizvodstvo, No 4, 1967, pp 1-4.
AIR/FTD/MT-23-274-68

Perfecting Methods of Planning Hot Forging Techniques, by V. N. Trubin, et al.
RUSSIAN, per, Kuznechno-Shtampov, Vol 10, April 1968, pp 6-9.
BISI 7128

Optimum Life of Forging Dies, by M. E. Popov, M. O. Shtanko.
RUSSIAN, per, Kuznechno-Shtampov, Vol 10, October 1968, pp 11-13.
*BISI 7195

Ingot Moulds from Blast-furnace Conversion Pig Iron Treated with Magnesium, by Ye. G. Nikolayenko.
RUSSIAN, per, Liteinoe Proizvodstvo, No 3, 1968, pp 6-9.
NLL Ref: 9022.4 (68/229)

Precipitation-hardening Aluminium-Nickel Bronzes for Castings, by K. P. Lebedev.
RUSSIAN, per, Liteinoe Proizvodstvo, No 4, 1968, pp 8-11.
NLL Ref: 9022.4 (68/223)

Inelastic Constants of Oriented Glass-Fiber Reinforced Plastic as a Function of the Temperature, by D.V. Zambakhidze, A. L. Rabinovich, 11 pp.
RUSSIAN, per, Mekhanika Polimerov, No 2, 1967, pp 79-85.
AIR/FTD/MT-23-666-58

Relationship Between Structural and Strength Characteristics of Fiber-Glass Laminates, by A. S. Pranch, V. P. Tamuzh. 12 pp.
RUSSIAN, per, Mekhanika Polimerov, No 2, 1967 pp 302-308.
AIR/FTD/MT-23-662-68

The Influence of Molecular Weight on Deformation-Strength Properties of Oriented Amorphous Polymers, by L. A. Layus, Ye. V. Kuvshinskiy. 12 pp.
RUSSIAN, per, Mekhanika Polimerov, No 4, 1967, pp 579-585.
AIR/FTD/MT-24-314-68

Structural Stability and Phase Composition of 15/25/4W/Ti (EPI64) Steel, by Y. V. Latyshov.
RUSSIAN, per, Metallov Term Obr Met, No 2, 1968, pp 34-37.
NLL Ref: 9022.4 (68/244)

The Effect of Vacuum Arc Remelting on Properties of Heat-Resistant Alloys for Disks, by Ye. I. Belikov, G. G. Guley. 10 pp.
RUSSIAN, per, Moscow. Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii. Sbornik Trudov, No 52, 1967, pp 81-89.
AIR/FTD/MT-23-936-68

A Study of the Structure and Phase Composition of Heat-Resistant Alloys From Open and Vacuum Melts, by Ye. I. Belikova, V.S. Mal'tseva, et al. 7 pp.
RUSSIAN, per, Moscow. Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii. Sbornik Trudov, No 52, 1967, pp 90-94.
AIR/FTD/MT-23-936-68

A Study on the Quality of Heat-Resistant Alloys EP109 and EP220, Melted by Various Methods, by Ye. I. Belikova, G. S. Chernyak, et al. 6 pp.
RUSSIAN, per, Moscow. Tsentral'nyy Nauchno-Issledovatel'skiy Institut Chernoy Metallurgii. Sbornik Trudov, No 52, 1967, pp 108-112.
AIR/FTD/MT-23-936-68

Uzen' Oil in Mangyshlak Peninsula Desalted, by R. A. Filina, R. K. Khabibulina, 7 pp.
RUSSIAN, per, Nefteperabotka i Neftekhimiya, Moscow, No 1, 1969, pp 1-4.
JPRS 47669

The Processing Conditions for the Copolymer of Styrene with α -Methyl Styrene, by V. S. Kim, N. Kh. Rustayeva.
RUSSIAN, per, Plasticheskiye Massy, No 12, 1967, pp 58-61.
NTC 69-10953-111

Application of Polymeric Materials in Structures Operating Under Load, by P. M. Kozlov. 336 pp.
RUSSIAN, bk, Primeneniye Polimernykh Materialov v Konstruksiyakh, Rabotayushchikh pod

Nagruzkoy, 1966, pp 1-361.

AIR/FTD/HT-23-277-68

Mathematical Analysis of Diffusion Combustion in the Boundary Layer of a High-Velocity Stream, by L. P. Yarin.

RUSSIAN, per, Problemy Teploenergetiki i Prikladnoy Teplofiziki, No 3, 1966, pp 80-88.

Dept of Navy APL/JHU CLB-3 T-575

Heating of Open-Hearth Furnaces by Means of Natural Gas With Auto-Carburization in the Flame, by B. S. Belokurov, V. G. Chernyavskiy.
RUSSIAN, per, Proizv. Stali. Inst. Chern. Met., Vol 25, 1966, pp 13-18.
BISI 7181

Heating of Open Hearth Furnaces by Means of Natural Gas With Auto-Carburization, by V. F. Pankratov.
RUSSIAN, per, Proizv. Stali. Inst. Chern. Met., Vol 25, 1966, pp 22-26.
BISI 7182

Research on Cellular Concrete Discussed, by L. M. Rozenfel'd, 5 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow, Jan 1969, pp 10-11.
JPRS 47741

State of Nonmetallic Materials Industry Discussed, 6 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow, Jan 1969, pp 16-17.
JPRS 47741

Use of New Insulating Panels Increasing, 5 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow, Jan 1969, p 28.
JPRS 47741

Urgent Problems Arise in Rock-Wool Industry, 5 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow, No 2, 1969, pp 6-7.
JPRS 47902

Evaluation of Anisotropy in Glass-Reinforced Plastics, by R. Ya. Ivanova, V. D. Popov. 9 pp.
RUSSIAN, per, Sudostroyeniye, No 12, 1967, pp 3-6.

AIR/FTD/HT-23-929-68

A New Method for Calculating Glass Melt Flows, by D. B. Ginzburg, A. Ya. Rapoport.

RUSSIAN, per, Trudy Khimiko Tekhnologicheskoy Inst, No 50, 1966, pp 47-54.
NTC 69-10987-11B

Powder Materials, by B. I. Matveyev. 17 pp.
RUSSIAN, per, Tsvetnyye Metally i Splavy, Vol 1, 1967, pp 102-112.
AIR/FTD/MT-24-307-68

Solid Molybdenum-Disulfide Lubricants, by L. N. Sentyurikhina.
RUSSIAN, bk, Tverdye Disulfid-Molibdenovyye Smazki, 1966.
*Dept of Navy NTC

Dicarbides of Europium and other Rare Earth Metals, by M. M. Matiushenko.
RUSSIAN, per, Ukrainskiy Fizicheskiy Zhurnal, Vol 13, 1968, pp 1083-1085.
*AEC/LASL

Strengthening Rail Steel by Inoculation, by L. I. Tushinskiy.
RUSSIAN, per, Uprochnenie Rel'sovoy Stali (Novosibirsk), 1966, pp 3-16.
BISI 6649

Machine Building Aids Nonferrous Metallurgy, by P. F. Lomako, 8 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, Moscow, No 1, 1969, pp 3-5.
JPRS 47647

Aging and Stabilizing of Chemical Fibers, by L. G. Tokareva, N. V. Mikhailov.
RUSSIAN, per, Vsesoyuznoye Khim Obshch Zhurnal, Vol 11, No 3, 1966, pp 293-302.
NTC 69-10842-11E

Determination of the Concentration of Crosslinks in the Structure Formation of Rubbers With Alkylphenol Formaldehyde Resins, by L. M. Kurachenkova, A. G. Schvarts.
RUSSIAN, per, Vysok Soed, Vol 10B, No 2, 1968, pp 104-108.
NLL Ref: 5828.4F (M.13049)

Physical and Chemical Properties of Polystyrene,
by M. P. Korshavin.
RUSSIAN, per, Zh. Prikl. Khim., No 10, 1937,
pp 676-682.
NLL Ref: 5828.4F (M.13066)

**Development of the Rubber Industry in the USSR
and Abroad,** by F. I. Yashunskaya,
V. P. Yevstratov.
RUSSIAN, per, Zh. Vses. Khim. Obshch., Vol 13,
No 1, 1968, pp 2-12.
NLL Ref: 5828.4F (M.13062)

**The Dependence of Dynamic and Strength Properties
of Rubbers on the Structure of the Vulcanisation
Network,** by Z. N. Tarasova, B. A. Dogadkin.
RUSSIAN, per, Zh. Vses. Khim. Obshch., No 13,
1968, pp 87-94.
NLL Ref: 5828.4F (M.13054)

**A Method of Increasing the Wear Resistance and
Corrosion Resistance of Metals and Alloys by
Saturating Their Surface Layers With Halides,**
by B. P. Grigor'yev. 2 pp.
RUSSIAN, Patent No. 189,278, 20 May 1963, p 1.
AIR/FTD/HT-23-373-68

Lubricating Cooling Liquid for Machining Metals,
by A.N. Istratenkov, L.M. Kirsanov, et al. 2 pp.
RUSSIAN, Patent No. 197,075, 11 Jan 1966, 1967,
pp 1-2.
AIR/FTD/HT-23-358-68C

**Method of Improving the Antifriction Properties
of Oil,** by S. V. Ventsel', Ye. V. Turchak,
et al. 1p.
RUSSIAN, Patent No. 198,831, 13 Dec 1965, 1967,
pp 1-2.
AIR/FTD/HT-23-358-68D

Abu Dhabi Petroleum Production Expands, 11 pp.
ARABIC, per, al-Ahram, Cairo, 8 Feb 1969,
pp 4, 5.
JPRS 47745

**Yarn of Improved Quality Obtained from
a Polyamide Containing A Gel,**
BELGIAN, Patent No 661,192.
NTC 69-10783-11E

Multilobate Filaments.
BELGIAN, Patent 663,574.
NTC 69-10784-11E

**Hardening of Ethylene-Vinyl Chloride Co-
polymers,** by R. H. Bachderf.
BELGIAN, Patent No 665,970.
NTC 69-10777-11J

Fireproofing Products,
BELGIAN, Patent No 669,341.
NTC 69-10817-11C

Finely Divided Products, by J. P. Brown.
BELGIAN, Patent No 707,755.
NLL Ref: 5828.4F (13014)

Finely Divided Products, by J. P. Brown.
BELGIAN, Patent No 707,756.
NLL Ref: 5828.4F (13015)

**Cracked Ammonia Atmosphere and Its Applications
in Metallurgy,** by Z. Janda.
CZECH, per, Hutnik, Vol 18, No 5, 1968
pp 182-186.
*BISI 7233

**Determination of Blast Temperature Drop Before its
Entry into the Combustion Zone of Blast Furnace,**
by J. Sobotka.
CZECH, pr, Hutnik, Vol 18, No 5, 1968, pp 211-216.
*BISI 7228

Complex Automation of Blooming Mills Abroad,
by V. Pokorny.
CZECH, per, Hutnik, Vol 18, No 5, 1968,
pp 225-232.
*BISI 7229

**Operation Experiences with Application of High-
Alumina Refractories in Push Furnace Hearth,**
by J. Fiala, et al.
CZECH, per, Hutnik, Vol 18, No 5, 1968,
pp 232-239.
*BISI 7230

**Mixing the Charge Before the Homogenization
Stock Yard and in the Sintering Plant,**
by M. Snejdar.
CZECH, per, Hutnik, Vol 18, No 9, 1968,
pp 417-422.
*BISI 7222

Future of Universal Mill Plate Production,
by J. Petr.
CZECH, per, Hutnik, Vol 18, No 9, 1968, pp 432-425.
*BISI 7224

First Experiences with the Operation of a 150 Ton Tandem Furnace in the NIKG Steel Works in Ostravakuncicich, by Z. Bohm, et al.
CZECH, per, Hutn. Listy, Vol 23, No 1, 1968, pp 16-20.
*BISI 7210

Behaviour of Gases in the Oxygen Converter Steel Bath, by J. Skala, et al.
CZECH, per, Hutn. Listy, Vol 23, No 5, 1968, pp 313-319.
BISI 6801

Influence of Some Elements and Production Conditions on Hot Workability of Carbon Steels, by P. Benda.
CZECH, per, Hutn. Listy, Vol 23, No 7, 1968, pp 473-478.
*BISI 7145

A Control System of Open-Hearth Plant Operation, by J. Jenik.
CZECH, per, Hutn. Listy, Vol 23, No 8, 1968, pp 535-541.
*BISI 7147

Production of Creep Resisting Steels in Maerz-Boelens Type Open-Hearth Furnaces, by A. Abruz.
CZECH, per, Hutn. Listy, Vol 23, No 8, 1968, pp 548-555.
*BISI 7148

Technological Conditions for the Hot-Forming of Silicon Steels, by M. Foltyn.
CZECH, per, Hutn. Listy, Vol 23, No 10, 1968, pp 688-693.
*BISI 7239

More Accurate Mean Pressure Calculation for the Rolling of Highly Alloyed Steels, by D. Sichova.
CZECH, per, Hutn. Listy, Vol 23, No 10, 1968, pp 694-699.
*BISI 7240

Analogue Computer Solution of Reheating Steel Passing Through Continuous Hearth Furnaces, by J. Kunes, et al.
CZECH, per, Hutn. Listy, Vol 23, No 10, 1968, pp 700-706.
*BISI 7241

Structure and Properties of the Interlayer Originating During Hot Tin-Plating and Electrolytical Tin-Plating of Steel Sheet, by J. Teindl.
CZECH, per, Hutn. Listy, Vol 23, No 10, 1968, pp 707-713.
*BISI 7242

Effect of Small Additions of Nb, V, Ti and Zr on Steel Toughness at Reduced Temperatures, by M. Sicha.
CZECH, per, Hutn. Listy, Vol 23, No 10, 1968, pp 714-719.
*BISI 7243

Properties of CSN 17481, 17482 and 17483 Fe-Mn-Cr-Base Heat-Resisting Austenitic Steels, by F. Poboril.
CZECH, per, Hutn. Listy, Vol 23, No 11, 1968, pp 781-791.
*BISI 7234

Cold-Rolled Non-Oriented Electrical Sheet, by E. Janda.
CZECH, per, Hutn. Listy, Vol 23, No 11, 1968, pp 797-804.
*BISI 7235

Some Automation Installations for Metallurgical Workshops, by B. Dubsky.
CZECH, per, Hutn. Listy, Vol 23, No 11, 1968, pp 809-814.
*BISI 7237

A Study of the Balanced States in the NiCrTiAlW System, by A. Havalda. 24 pp.
CZECH, per, Kovove Materialy, Vol 5, No 1, 1967 pp 3-21.
AIR/FTD/HT-23-361-68

A Study of the Morphology and Fineness of the Dispersion of a Precipitate in Low U-Al and U-Si Alloys, by J. Truchly, J. Novak. 16 pp.
CZECH, per, Kovove Materialy, Vol 5, No 2, 1967 pp 135-147.
AIR/FTD/HT-23-362-68

New Phenomena in Recrystallization of Austenite, by J. Pluhar, P. Zuna.
CZECH, per, Kovove Mat., Vol 6, No 3, 1968, pp 209-221.
BISI 6781

The Oxidation Kinetics of Nickel-Chromium Alloys, by P. Hoch, V. Cihal.
CZECH, per, Kovove Mat., Vol 6, No 3, 1968, pp 236-257.
BISI 6802

The Austenite Nucleation During High Rate Continuous Heating of Malleable Cast Iron, by E. Dorazil.
CZECH, per, Kovove Mat., Vol 6, No 3, 1968, pp 252-262.
BISI 6803

Recovery in Creep of Alpha Iron, by M. Pahutova, J. Cadek.
CZECH, per, Kovove Mat., Vol 6, No 3, 1968, pp 263-279.
BISI 6804

The Effect of Delta Ferrite on the Properties of Electro-Slag Welded Joints in 13% Chromium Steel, by L. Vehnér.
CZECH, per, Kovove Mat., Vol 6, No 3, 1968, pp 280-289.
BISI 6805

The Growth of Austenite into Ferrite in the Fe-N System, by A. Silbernagel, et al.
CZECH, per, Kovove Mat., Vol 6, No 4, 1968, pp 373-390.
*BISI 7221

Chipping of Wood Waste and Processing of Screened-out Oversize Chips, by J. Jaros, L. Becka.
CZECH, per, Papir a Celuloza, Vol 21, 1966, pp 75-77.
NLL Ref: 5828.4F (7457)

The Quantitative Determination of Bis-Phenol Antioxidant Additives in Petroleum Oils by Infrared Spectroscopy, by A. A. Kadushin, Sh. Kordchek. 8 pp.
CZECH, rpt, Sbornik Prac Chemickotechnologickej Fakulty Syst, Bratislava, Slovenske Vydavatelstvo Technickej Literatury, 1966, pp 195-200.
AIR/FMD/HI-23-629-68

Scatter of Creep-Test Results, by J. Pribyl.
CZECH, rpt, Sbornik Praci Vyzkumneho Ustavu Leninovych Zavodu v Plzni, 1965, pp 413-421.
BISI 5637

The Technical and Economical Effect of Increasing the Enrichment of Blast Furnace Charges in the VSKG, by V. Rimmel, J. Ranny.
CZECH, rpt, Sbornik VZKG Zpracovani Zelezorudnych Koncentratu, Mezinarodni Vedecko-Technicke Konf. III, Oct. 1967, pp 16-20.
BISI 6955

Studies of Surface Properties of Powders, Ores and Concentrates, by V. Maly, N. Konopleva.
CZECH, rpt, Sbornik VZKG Zpracovani Zelezorudnych Koncentratu, Mezinarodni Vedecko-Technicke Konf. III, Oct. 1967, pp 68-72.
BISI 6957

Contribution to the Theory of Lumping of Ore Mixtures for Sintering, by Z. Demcik, J. Hancil.
CZECH, rpt, Sbornik VZKG Zpracovani Zelezorudnych Koncentratu, Mezinarodni Vedecko-Technicke Konf. III, Oct. 1967 pp 73-80.
BISI 6958

The Influence of Glass Composition and Some Physico-Chemical Properties Upon the Efficiency of the Grinding and Polishing Process, by A. S. Potes, L. F. Grigorjeva.
CZECH, per, Sklar a Keramik, Vol 15, No 12, 1965, pp 370-373.
NTC 69-10789-11B

Some Observations on the Determination of Gases in Technical-Grade Glasses, by J. Goetz, Z. Strnad.
CZECH, per, Sklar a Keramik, Vol 17, 1967, pp 74-75.
NTC 69-10954-11B

Increased Resistance to Water of Glass Fibers Designed for Insulation Purposes, by V. Simova, P. Braikova.
CZECH, per, Sklar a Keramik, Vol 18, No 1, 1968, pp 11-15.
NTC 69-10750-11B

The Self Lubricating Properties of Sintered Bearings, by S. Glezl.
CZECH, per, Strojirenstvi, Vol 17, No 12, 1967, pp 905-911.
*BISI 7206

Characteristic Operational Factors of Porous Bearings, by S. Glezl.
CZECH, per, Strojirenstvi, Vol 18, No 2, 1968, pp 113-121.
*BISI 7207

Vacuum Metallization of Steel Springs, by J. Moravec.
CZECH, per, Strojirenstvi, Vol 18, No 7, 1968, pp 528-532.
BISI 6954

Possibilities of Further Developments in the Technology of Ingot Casting, by J. Kasper.
CZECH, per, Uspora Kovu v Ocelarnach (Ostrava), 1968, pp 10-27.
BISI 6963

Decarburised Steel Sheet as Material for Enamelling, by G. de Witte.
DUTCH, per, Constructiematerialen, No 4, April 1967, pp 23-27.
BISI 6535

The Corrosion of Stainless Steel in Practice, by L. M. Reintsma.
DUTCH, per, Metalen (The Hague), Vol 40, No 12, 1966, pp 401-404.
BISI 6381

Precipitation in Alloy Steels, Part 1: Precipitation of Carbides, by A. J. Zuitaoff.
DUTCH, rpt, Metalen en andere Constructiemat (Delft), Special Issue, TNO, 1966, pp 42-47.
BISI 6464

Structure and Mechanical Properties of Iron-Aluminium Alloys, by P. Morgand, et al.
FRENCH, per, Acta Met., Vol 16, No 6, June 1968, pp 867-875.
BISI 6824

Vacuum Heat Treatment for Metals, by J.J. Huet.
FRENCH, per, AIB Met., Vol 5, No 7, 1965-66, pp 251-258.
BISI 6767

New Interpretation of "Side-Band" Diagrams, by A. Guinier, 5 pp.
FRENCH, per, Acta Met., No 3, 1955, pp 510-512.
AEC-ORNL-Tr-1788

Commission on Investigative Methods, Part 1: Impact strength Tests, Schnadt Tests, Impact Tensile Tests, by M. Grumbach, et al.
FRENCH, per, C. D. S. Circ., No 9, 1968, page 1996-..
*BISI 7252

Practical Interest in the Measurement of Oxygen in Steel, by P. Goureau.
FRENCH, per, C.D.S. Circ., No 10, 1968, pp 2217-2240.
*BISI 7169

Investigation of the Optimum Construction and Operating Conditions of the Hot Blast Stove, by C. Holstein.
FRENCH, per, C.D.S. Circ., No 11, 1968, pp 2419-2449.
*BISI 7168

Warping of Oxygen Converter Shelves, by G. Hallet.
FRENCH, per, Circulaire d'Information Techniques, Vol 11, 1968, pp 2505-2510.
*BISI 7174

Preparation and Biological Behavior of a Colloid of Radioactive Gold Protected with Poly-Vinylpyrrolidone, by R. A. Caro.
FRENCH, rpt, CNEA-213, 1968
*AEC/ORNL

Development of Mechanical Properties During the Recovery and Recrystallisation of an Extra-Soft Steel, by R.-M. Couzinet.
FRENCH, per, Comptes Rend., Ser. C, Vol 266, 22 January 1968, pp 262-265.
BISI 6557

The Electrochemical Behavior of Austenitic Stainless Steels Containing Molybdenum in Sea Water, by J. M. Defranoux.
FRENCH, per, Corrosion Science, Vol 8, 1968, pp 245-258.
NLL Ref: 3774.5 (1827)

A Cast Steel Resistant to Abrasive Wear, by T. Sala.
FRENCH, per, Fonderie, No 8, August 1968, pp 344-354.
BISI 6888

Determination of the Fluidity of Metals by the Fluidity Index, by Niko Malesevic, 35 pp.
FRENCH, per, Fonderie No 268, 1968, pp 248-266.
AEC/ORNL-Tr-3018

Corrosion of Low Alloy Steels in Carbon Dioxide at Medium Temperatures, by H. Loriers.
FRENCH, per, Journal Nuclear Materials, No 25, 1968, pp 144-159.
NLL Ref: 3774.5 (1784)

Role of Niobium in the Improvement of the Mechanical Properties of Weldable Constructional Steels, by P. Mandry.
FRENCH, per, Metaux Corr Ind, Vol 43, No 1, 1968, pp 24-48.
NLL Ref: 9022.4 (68/254)

Effect of Ultrasonic Waves on Chemical and Physico-Chemical Processes, by A. Le Bras.
FRENCH, per, Rev. Chimie Minérale, Vol 4, No 1
1967, pp 283-315.
BISI 6196

A Study of Expansion Pressure on the Walls of Coke Ovens, by C. Meltzheim, M. Buisine.
FRENCH, per, Rev. Gen. Therm., Vol 7, No 2, February 1968, pp 147-166.
BISI 6820

Infra-Red Radiation Analysers, by H. Pierrard.
FRENCH, per, Rev. Met., Vol 64, No 2, February 1967, pp 119-125.
BISI 6634

Statistical Study of the Factors Governing the Impact Strength of Turbine Rotors and Alternators, by J. Comon, et al.
FRENCH, per, Rev. Met., Vol 64, No 4, April 1967, pp 361-370.
BISI 6093

Fracture Mechanisms in Disperse-Phase Metals, by J. Plateau.
FRENCH, per, Mem. Sci. Rev. Met., Vol 64, 1967, pp 965-971.
*AEC/AERE

Experimental Study of the Relation Between Solidification and Heterogeneities in Steel Ingots of 3 to 30 Tons, by J. Comon, B. Bastien.
FRENCH, per, Rev. Met., Vol 65, No 1, January 1968, pp 13-24.
BISI 6732

Considerations Concerning the Anisotropy of the Mechanical Characteristics of Forged Steel Parts, by W. Nicodemi, et al.
FRENCH, per, Rev. Met., Vol 65, No 3, March 1968, pp 205-210.
BISI 6826

Resistance to Pitting Corrosion of Chromium-Nickel-Molybdenum Stainless Steel Produced in the Normal Way with High Frequency or Remelted Under Electro-Conductive Slag (ESR), by S. Steinemann.
FRENCH, per, Rev. Met., Vol 65, October 1968, pp 651-658.
BISI 7100

A New Method for the Determination of the Viscosity of Glass in the Transformation Range, by P. G. Gerard.
FRENCH, per, Revue Universelle des Mines Ser 9, Vol 7, No 11, 1951, pp 393-396.
NTC 69-10823-11B

Non-destructive Control of the Texture of Refractory Products, by A. Baudran, C. Deplus.
FRENCH, per, Silicates Industriels, Vol 23, No 11, 1958, pp 561-572.
NTC 69-10796-11B

The Measurement of Thickness of Sheets of Glass by Absorption of Radiation From Artificial Radioisotopes, by J. Brav.
FRENCH, per, Silicates Industriels, Vol 30, No 12, 1965, pp 539-645.
NTC 69-10797-11B

Heat Treatment of Structural Steels by Hardening and Tempering, by J. Marty.
FRENCH, per, Techn. Mod., Vol 58, No 2, February 1966, pp 42-46.
BISI 6385

Contribution to the Knowledge of Silica Glass in the Ultra-Violet, by V. Garino Canina.
FRENCH, per, Verres et Refractaires, Vol 10, No 3, 1956, pp 151-158.
NTC 69-10831-11B

The Glass and the "Verrogenecous" Liquid, by A. Winter-Klein.
FRENCH, per, Verres et Refractaires, Vol 13, No 3, 1959, pp 125-130.
NTC 69-10900-11B

Migration of Hydrogen Ions in Glasses, by F. Ehrmann, M. Billy.
FRENCH, per, Verres et Refractaires, Vol 15, No 3, 1961, pp 131-139.
NTC 69-10829-11B

Dynamic Study of Tank Furnaces for Melting Glass, by J. Kelly.
FRENCH, per, Verres et Refractaires, Vol 19, No 1, 1965, pp 3-12.
NTC 69-10751-11B

New Industrial Products Utilizing Sole or Sheathing of Cellulosic Sponge and Process for Their Manufacture, by H. Billioque.
FRENCH, Patent No 906,946.
NTC 69-10813-11G

Treating the Surface of Plastics Before Bonding.
GERMAN, per, Adhaesion, Vol 10, No 6, 1966, pp 255-260.
NTC 69-10999-111

Explanation of Internal Lattice Deformation in Plastically Deformed α -Iron, by F. Bollenrath.
GERMAN, per, Arch. Eisenh., Vol 38, October 1967, pp 793-.
*BISI 7258

Dephosphorization of Steel During Injection of Powered Limestone by Oxygen, by E. Forster, et al.
GERMAN, per, Arch. Eisenh., Vol 39, No 1, January 1968, pp 1-8.
BISI 6394

Properties of Non-Stabilized All-Austenitic Steels for use in the Construction of Nuclear Reactors and Steam Boiler Plants, by H. R. Kautz, H. Gerlach.
GERMAN, per, Arch. Eisenh., Vol 39, February 1968, pp 151-158.
BISI 6445

Properties of High-Purity Iron-Silicon Alloys Containing Up to 5% Silicon, by A. Hoffmann.
GERMAN, per, Arch. Eisenh., Vol 39, March 1968, pp 191-199.
BISI 6552

Effect of Hydrostatic Pressure of up to 34 KBAR on Diffusion in the Cobalt-Nickel and Iron-Nickel Systems, by E. Schmidtman, K. H. Dorner.
GERMAN, per, Archiv Eisenhüttenwesen, No 39, 1968, pp 469-476.
NLL Ref: 9022.401 (746-7)

Application of the Linear Programming Method to the Power Supply Planning of Integrated Iron and Steel Works with Particular References to the Optimization of Fuel Balance, by M. Ussar, H. Tichy.
GERMAN, per, Arch. Eisenh., Vol 39, August 1968, pp 605-610.
BISI 6873

Comparative Studies on the Corrosion Resistance of Galvanized and Aluminized Steel Sheets, by G. Burgmann.
GERMAN, per, Arch. Eisenh., Vol 39, August 1968, pp 623-628.
*BISI 7251

Maraging Nickel Steels of High Strength, by K. Bungardt, et al.
GERMAN, per, Arch. Eisenh., Vol 39, October 1968, pp 719-731.
*BISI 7208

Importance of the Temperature and Ferrous Oxide Content of the Slag During the Dissolution of Lime in the Basic Open Hearth Process, by E. Schurmann, et al.
GERMAN, per, Arch. Eisenh., Vol 39, No 11, November 1968, pp 815-821.
BISI 7058

Study of the Problem of Heat Treating Cold-Bent Tube Bends Made from Steels Having High-Temperature, by G. Lautenbusch, et al.
GERMAN, per, Arch. Eisenh., Vol 40, Feb 1969, pp 131-138.
*BISI 7183

Uranium from Phosphates, a Way of Improving the German Uranium Supply, by H. Huber, 8 pp.
GERMAN, per, Atomwirt Atomtech, Vol 13, Mar 1968, pp 127-127
AEC-Tr-6962-69

Ore Transport in Winter from the Mines of LKAB in No North Sweden, by B. Fagerberg.
GERMAN, per, Aufbereitungs-Technik, Vol 6, No 1, 1965, pp 23-29.
*BISI 7198

Pelletising of Iron Ore Worldwide, by W. Pietsch.
GERMAN, per, Aufbereitungs-Tech., 1969.
*BISI 7165

Indication of Corrosion in Welded Steel Joints, by H. Wirtz.
GERMAN, per, Bänder Bleche, No 9, September 1968, pp 526-532.
BISI 6923

Effects of Small Additions of Vanadium on the Mechanical Properties and the Structure of Weldable Structural Steels and the Binding of Vanadium as Carbonitride, by F. Schmitt, et al.
GERMAN, per, Bänder Bleche, Vol 9, October 1968, pp 602-610.
*BISI 7264

Electric Seam Welding with Pressure of Tubes and Sections, by H. Cammerer.
GERMAN, per, Bänder Bleche, Vol 9, November 1968, pp 654-664.
BISI 6949

New Progress in Workable Iron-Nickel-Chromium Permanent-Magnet Alloys, by G. Rassmann, O. Herkel.
GERMAN, per, Ber. Arbeitsgemeinschaft. Ferromagnetismus, 1958, pp 120-126.
BISI 6794

Results of Electrochemical Investigations of Stress Corrosion Cracking and Its Practical Application, by H. Grafen.
GERMAN, per, Corros. Sci., Vol 7, No 4, April 1967, pp 177-195.
BISI 6192

Electron-Microscope Study of Deformation Processes of Pearlitic Structures During Wire Drawing, by K. L. Maurer, R. Rossegger.
GERMAN, per, Berg.-Hutten. Monatsh., Vol 111, September 1966, pp 412-420.
BISI 6521

Corrosion Resistant Steels for Severe Service in Nitric Acid, by H. Zitter.
GERMAN, per, Dechema Monograph, Vol 45, 1962, pp 129-158.
*BISI 7261

Continuous Measurement of Bath Temperature in the LD Crucible, and Derived Knowledge of Melting Progress, by R. F. Rinesch, G. Strohmeier.
GERMAN, per, Berg.-Hutten. Monatsh., Vol 112, No 1, 1967, pp 1-7.
BISI 6019

Control of Production of High Speed Steel, by E. Kunze, H. Brandis.
GERMAN, per, DEW Techn. Ber., No 2, 1964, pp 98-105.
*BISI 7150

Determination of the Oxygen Content of Steel by Hot Extraction, by W. Schwarz, H. Zitter.
GERMAN, per, Berg.-Hutten. Monatsh., Vol 113, No 1, January 1968, pp 1-10.
BISI 6676

Porous Parts Produced by Sintering of Chromium-Nickel Steel, by L. Elssner.
GERMAN, per, DEW Techn. Ber., Vol 7, No 2, 1967, pp 120-125.
BISI 6529

The Hot Torsion Test---The Best Appraisal of Hot Workability, by J. Langerweger, H. Trenkler.
GERMAN, per, Berg.-Hutten. Monatsh., Vol 113, March 1968, pp 104-114.
BISI 6547

Use of Stainless Steels in the Cellulose Industry, by P. Schierhold.
GERMAN, per, DEW Techn. Ber., Vol 7, No 6, June 1968, pp 137-141.
BISI 6510

Possibilities of Improving the Hot Plasticity of Alloy Steels, by G. Kuhnelt.
GERMAN, per, Berg.-Hutten. Monatsh., Vol 113, March 1968, pp 114-124.
BISI 6598

Accuracy of Measurement and Capacity of an All-Sheet Measuring and Sorting Device for Electrical Sheet, by W. Krug.
GERMAN, per, ETZ-A., Vol 78, No 11, November 1957, pp 829-833.
BISI 7002

Vacuum Lifting and Handling for Sheets, by K. Ziesling.
GERMAN, per, Blech, Vol 15, No 5, May 1968, pp 270-274.
BISI 6641

Investigations into the Reaction Between Slags and Filler Wires in the Arc Welding Process, by W. Hummitzsch, et al.
GERMAN, per, Fachbuchreihe Schweisstechnik, Vol 27, 1962, pp 21-28.
*BISI 7220

Complex Aluminium Bronzes: Corrosion, Resistance and Applications, by J. Baier.
GERMAN, per, Chem Ing Tech, Vol 40, 1968, pp 365-370.
NLL Ref: 9022.4 (68/202)

Formulation of Unsaturated Polyester Resin Coatings, by W. A. Riese.
GERMAN, per, Farbe und Lack, Vol 72, No 2, 1966, pp 140-148.
NTC 69-10942-11C

Some Relationships in the Dynamics of the Process of Viscose Fiber Spinning, by A. T. Serkov.
GERMAN, per, Faserforsch und Textiltech, Vol 19, No 3, 1968, pp 129-133.
NLL Ref: 5828.4F (7446)

Measurement of the Cutting Forces in the Model 1110 Staple Fiber Cutters, by K. Pestel.
GERMAN, per, Faserforsch und Textiltech, Vol 19, No 5, 1968, pp 197-201.
NLL Ref: 5828.4F (7448)

Technological Preparations for Plate Rolling, by S. Bala, et al.
GERMAN, per, Freiberger Forschungsh., B87, 1963, pp 57-87.
*BISI 7152

The Processing of High Nickel Alloy Scrap, by H. Gotze, R. Wagenmann.
GERMAN, per, Freiberger Forschungsh., Vol 134B, 1968, pp 41-49.
NLL Ref: 9022.4 (68/231)

Classification, Grading and Processing of Non-Ferrous Metal Scrap in the East German People's Republic, by W. Schrieder.
GERMAN, per, Freiberger Forschungsh., Vol 134, 1968, pp 7-17.
NLL Ref: 9022.4 (68/232)

The Production of Large Castings in Ferritic S. G. Iron, by H. Mayer.
GERMAN, per, Giesserei, Vol 55, 14 March 1968, pp 121-126.
BISI 6458

A New Cast Steel Material for Hydraulic Machines, by R. Kupfer.
GERMAN, per, Giessereiforschung, Vol 19, No 2, 1967, pp 85-93.
BISI 6490

Eutectic Solidification of Iron-Carbon Alloys, by F. Henke.
GERMAN, per, Giesserei-Praxis, No 11, November 1967, pp 391-407.
BISI 6188

Chromium in Special Cast Irons, by F. Henke.
GERMAN, per, Giesserei-Praxis, 10 December 1968, Part 1: pp 471-481, Part 2: 487-495.
BISI 7159

Gravity Die Casting for Producing High Value Gr Castings, by E. Bakowsky.
GERMAN, per, Giessereitechnik, Vol 2, No 10, 1956, pp 225-233.
*BISI 7190

Tests in the Production of Prof-led Grey Iron Die Castings, by G. Schwarz, D. Junghans.
GERMAN, per, Giessereitechnik, Vol 5, No 2, 1959, pp 35-36.
*BISI 7193

Occurrence of Defects in Grey Gravity Die Castings, by D. Junghans, G. Schwarz.
GERMAN, per, Giessereitechnik, Vol 5, No 6, 1959, pp 179-185.
*BISI 7191

Some Materials Problems of Die, Grey, and Malleable Iron Castings, by J. Czikel.
GERMAN, per, Giessereitechnik, Vol 6, No 9, 1960, pp 13-23.
*BISI 7194

Fluorine Opals - Practical Experience and Melting Experiments, by F. Jochmann.
GERMAN, per, Glas-Email-Keramo-Technik, Vol 5, No 11, 1954, pp 399-403, 437-440.
NTC 69-10800-11B

Viscosity of Glasses, by H. Schulz.
GERMAN, per, Glas-Email-Keramo-Technik, Vol 18, No 2, 1967, pp 41-48.
NTC 69-10847-11B

Fatigue Behaviour of Case-Hardened Samples, by H. Wiegand, G. Tolasch.
GERMAN, per, Hart.-Techn. Mitt., Vol 22, No 12, December 1967, pp 330-338.
BISI 6329

Effect of Microstructure on Hardness and Toughness of Structural Steels, by A. Legat, A. Moser.
GERMAN, per, Hart.-Techn. Mitt., Vol 23, April 1968, pp 10-14.
BISI 6511

Fatigue Tests With High-Strength 35 NCD 16 ("AFNOR") Steel, by G. Ladoux.
GERMAN, per, Hart.-Techn. Mitt., Vol 23, No 4, April 1968, pp 14-21.
BISI 6530

Radio-Active Recording of the Quantity of Return Fines and Coke Moisture Content in a Sinter Plant, by G. Buchholz, G. Sommerkorn.
GERMAN, per, Hoesch Ber., No 3, 1968, pp 98-105.
BISI 6774

The Influence of Non-Metallic Inclusions on the Machinability of Unalloyed Structural Steels, by W. Konig.
GERMAN, per, Industrie Anzeiger, Vol 87, Various Issues: No 26, pp 61-68; No 43, pp 31-36; No 51, pp 165-170, 1965.
*BISI 7177

Optimising the Rolling Programmes for Blooming Mills, by J. Lydyga, et al.
GERMAN and FRENCH, per, Kalibreur, September 1968, pp 3-24.
*BISI 7202

Weighing and Measuring of Bulk Materials, by A. Oberhauser, R. Haack.
GERMAN, per, Kleppig Fachber., Vol 76, September 1968, pp 563-567.
*BISI 7197

The Future of Electric Steelmaking, by F. W. Mollenkamp.
GERMAN, per, Kleppig Fachber., Vol 76, October 1968, pp 581-586.
*BISI 7263

Physical Investigations on Molded Objects from Polyacrolein, by H. Schilling.
GERMAN, per, Kolloid-Zeitschrift, Vol 175, 1961, pp 110-119.
NTC 69-10935-111

Strength Calculations for Closed Rod Eyes, by A. Pocza.
GERMAN, per, Konstruktion, Vol 19, No 9, 1967, pp 361-364.
NLL Ref: 3774.5 (1811)

The Ageing Behavior of Glass Fiber Reinforced Plastics, Part 1, by G. Menges, F. Hesselt.
GERMAN, per, Kunststoffe, Vol 58, No 7, 1968, pp 509-514.
NLL Ref: 8313.4 (5653)

Studies on a High-Strength Stainless Maraging Steel, by K. Bungardt, W. Spyra.
GERMAN, per, Luftfahrttechnik Raumfahrttechnik, Vol 13, No 3, 1967, pp 63-67.
BISI 6810

Steel Wire Patenting in Plants of Novel Design, by R. Bruhl.
GERMAN, per, Maschinenmarkt, Vol 72, No 64, 1966, pp 11-15.
BISI 6788

Evaluation of Strength Values of Brittle Materials by Means of Extreme-Value Statistics, by H. E. Exner.
GERMAN, per, Materialprufung, Vol 7, No 10, 1965, pp 375-379.
*BISI 7201

Influence of Specimen Size on Tensile Characteristics and on Tendency to Brittle Fracture of Steel, by G. Schneeweiss.
GERMAN, per, Materialprufung, Vol 8, No 11, November 1966, pp 410-416.
BISI 5926

Present State and Trends of Non-Destructive Testing in the Federal Republic of Germany, by F. Michalski.
GERMAN, per, Materialprufung, Vol 9, April 1967, pp 113-119.
BISI 6874

The Determination of Hardness, Plasticity and Resistance to Cracking in Relation to Wear and Some Nonmetallic Materials, by G. Gommel.
GERMAN, per, Materialprufung, Vol 9, No 10, 1967, pp 365-371.
NLL Ref: 5196 (1419)

Strain Measurement With Strain Gauges at High Temperatures, by C. Roubach, K. Knublauch.
GERMAN, per, Materialprufung, Vol 10, No 4, 1968, pp 105-115.
NLL Ref: 9022.09 (4971)

Birefringence in Cross Sections of Individual Nylon-6 Yarns with Special Reference to Change in the Lateral Orientation of the Chain Molecules Due to the Texturing Process, by W. Wegener, H. Jammers.
GERMAN, per, Melliand Textilberichte, Vol 48, No 5, pp 513-517; No 6, pp 633-641; No 7, pp 741-745; No 9, pp 1003-1011; No 10, pp 1153-1161, 1967. Parts I-IV.
NTC 69-10899-11E

Electrolytic Precipitation of Aluminum with Electrolytic Hydrides, by J. Elze, G. Lange, 12 pp.
GERMAN, per, Metall, Vol 13,(6), 1959, pp 541-545.
AEC-Tr-6973-69

The Corrosion-Resistance of Electro-Deposit of Rhodium on Nickel, by K. E. Becker. GERMAN, per, MetallOberfläche, Vol 22, 1968, pp 145-153.
NLL Ref:9022.4 (68/213)

The Stress-Corrosion Behaviour of Stainless and Corrosion-Resistant Austenitic Steels in Alkaline Earth Halide Solutions, by H. Wiegand. GERMAN, per, MetallOberfläche, Vol 22, No 12, December 1968, pp 353-361.
*BISI 7156

Studies on Electrochemical Processes Occurring During Corrosion-Fatigue of Steels in Acids, by K. Endo. GERMAN, per, MetallOberfläche, Vol 22, No 12, December 1968, pp 378-384.
*BISI 7160

Low-Cycle Pulsating Fatigue Tests on Notched Specimens in the Endurance Strength Range, by W. Wellinger, G. Luft. GERMAN, per, Mitt. VGB, Vol 48, No 6, June 1968, pp 210-215.
BISI 6695

Zinc Chloride as a Glass Former, by I. Schulz. GERMAN, per, Naturwissenschaften, Vol 44, No 20, 1957, pp 536.
NTC 69-10827-11B

Decarburising of Electrical Steel Sheet by Heat Treatment in a Protective Atmosphere, by P.H. Ebner. GERMAN, per, Neue Hütte, Vol 10, March 1965, pp 174-177.
BISI 6679

Present State of the Art and Tendencies in the Development of Arc-Furnace Processes, by H. Maschler, et al. GERMAN, per, Neue Hütte, Vol 13, No 9, September 1968, pp 513-517.
*BISI 71844

Problems of Optimum Efficiency of Blast Furnaces, by R. Ebert, et al. GERMAN, per, Neue Hütte, Vol 13, No 9, September 1968, pp 518-523.
*BISI 7163

Carburisation of Cracker Tubing for Ethylene Production, by K. Muller. GERMAN, per, Nickel-Berichte, Vol 26, 1968, pp 121-128.
NLL Ref: 9022.4 (68/211)

The Properties of Steels Produced from Atomized Alloyed or Unalloyed Powders, by N. Dautzengerg. GERMAN, rpt, Paper Presented to the Second European Symposium on Powder Metallurgy, Vol 2, 8-10 May 1968, pp 1-27.
BISI 6666

Magnesite in Glass Tanks, by S. Guss. GERMAN, per, Radex-Rundschau, No 1, 1955, pp 320-326.
NTC 69-10903-11B

Microscopic Investigation of Magnesite Refractory After Use in Colorless Glass, Tank, by F. Trojer. GERMAN, per, Radex Rundschau, No 1, 1955, pp 327-332.
NTC 69-10904-11B

On the Influence of Oxide Impurities in Ferro-Chromium on the Degree of Purity of Chromium Steels, by A. Schöberl, et al. GERMAN, per, Radex Rund., No 2, February 1966, pp 34-50.
BISI 6217

The Austenite Grain Size of Steels Heat Treated in the Transformation Range, by R. Mitsche, A. Legat. GERMAN, per, Radex Rund., No 3/4, 1967 pp 695-698.
BISI 7009

Contribution to the Problem of the Influence of the Austenite Grain Size on Transformation Behaviour in the Martensite Stage, by K. Swoboda. GERMAN, per, Radex Rund., No 3/4, 1967, pp 819-824.
BISI 7010

Application of Optical Contrast Methods in Metallography, by F. Jeglitsch, R. Mitsche. GERMAN, per, Radex Rund., August 1967, pp 587-596.
BISI 6404

The Television Microscope in the Steelworks, by F. Hofer. GERMAN, per, Radex Rund., August 1967, pp 794-805.
BISI 6403

Ladle Linings, by W. Deilmann. GERMAN, per, Radex Rund., Vol 1, January 1969, pp 402-415.
*BISI 7186

A Survey of Carriers Used With Disperse Dyes in the Dyeing of Polyester Fibres, by E. P. Frieser. GERMAN, per, Bayon Zellwolle und Andere Chemiefasern, No 37, 1959, pp 378-383. NLL Ref: 5828.4F (M.7469)

Effect of Different Content of Nb in SK and K Steels in the Range 36-46 Kp/mm² and Yield on the Weldability of Plates, by K. Fabian, H. Krautmacher. GERMAN, per, Schweissen Schneiden, Vol 19, November 1967, pp 528-532. *BISI 7153

The Use of Ultrasonic Testing Method for the Inspection and Acceptance of Welds, by R. Trumpfheller. GERMAN, per, Schweissen und Schneiden, Vol 18, No 6, 1968, pp 1-12. NLL Ref: 9022.09 (4852)

The Shaping and Welding of Sound Insulating Sandwich Panels, by D. Kohtz. GERMAN, per, Schweissen Schneiden, Vol 20, No 2, 1968, pp 72-77. BISI 7212

Hard Facing of Rolling Mill Rolls, by W. Hummiltzsch. GERMAN, per, Schweissen Schneiden, Vol 20, No 12, 1968, pp 626-634. *HB 7731

Creep Testing of Welds Joining Creep Resisting Steels, by W. Ruttman, et al. GERMAN, per, Schweissen Schneiden, Vol 21, No 1, 1969, pp 8-17. *BISI 7185

On the Low Temperature Notch Ductility of Various Low Hydrogen Weld Metals, by A. Neumann, et al. GERMAN, per, Schweisstechnik, Vol 18, No 9, 1968, pp 385-390. NLL Ref: 5828.4F (M.7470)

New Development in Copper and Nickel Bearing Sintered Steels, with Special Reference to Applications of Such Steels, by G. Zanz, B. D. Hahn. GERMAN, per, 2nd European Symp on Powder Metallurgy, Stuttgart, 1968, 30 pp. NLL Ref: 9022.4 (68/167)

The Physical-Chemical Properties of the Production of Powder Metallurgical Products with Pre-Set Properties, by G. V. Samsonov. GERMAN, rpt, Second European Symposium on Powder Metallurgy, Stuttgart, Vol 1, 8-10 May 1968, 17 pp. BISI 7004

Combustion in Sintering Behaviour of Iron Alloys, by W. Thomas, F. Thummel. GERMAN, rpt, Second European Symposium on Powder Metallurgy, Stuttgart, Vol 1, 8-10 May 1968, 23 pp. BISI 7005

Bonding of Textile Fibers with Rubber, by H. Hadert. GERMAN, per, Seifen-Oele-Fette-Wachse, Vol 94, No 1, 1968, pp 17-20. NLL Ref: 5828.4F (13016)

An All-Sheet Tester for Sorting Transformer Sheet, by A. Fiebiger. GERMAN, per, Siemens Z., Vol 30, No 9, September 1956, pp 443-448. BISI 7001

Fire-Resistant Concrete with Low Thermal Expansion, by E. Gugel. GERMAN, per, Sprechsaal fur Keramik, Glas Email Silikate, Vol 100, No 21, 1967, pp 824-830. NTC 69-10965-11B

The Present Methods of Producing Iron Powders, by H. Buchholtz. GERMAN, per, Stahl Eisen, Vol 69, No 8, 1949, pp 247-256. *BISI 7205

Production and Properties of Pulverised Electrolytic Iron, by I. Ljunberg. GERMAN, per, Stahl Eisen, Vol 74, No 5, 1954, pp 279-285. *BISI 7157

Present State of Scalping Machine Technique, by E. Becker. GERMAN, per, Stahl Eisen, Vol 84, 22 October 1964, pp 1424-1437. BISI 6817

A New Operational Method of Hot and Cold Rolling of Strip with High Carbon Content, by E. Grass, P. U. Schmithals. GERMAN, per, Stahl Eisen, Vol 86, 16 June 1966, pp 705-709. HB 6911

**New Rod and Bar Mill for Special Steels, by
T. Schmidt.**

GERMAN, per, Stahl Eisen, Vol 86, 14 July 1966,
pp 877-887.
*BISI 7219

Corrosion of Carbon Steel in Sea-Water,

by E. Brauns, W. Schwenk.
GERMAN, per, Stahl Eisen, Vol 87, 15 June 1967,
pp 713-718.
BISI 5830

**The Simulation of Heat-Treatment Processes in
Large Forgings, by F. Hengerer.**

GERMAN, per, Stahl Eisen, Vol 88, 25 July 1968,
pp 813-818.
BISI 6795

**Contribution to the Technique of Soaking Pit
Operation, by H. Lehr, et al.**

GERMAN, per, Stahl Eisen, Vol 88, 31 October
1968, pp 1203-1208.
BISI 7060

Cooling Conditions of Cooling Beds, by

W. Degenhard, et al.
GERMAN, per, Stahl Eisen, Vol 88, 31 October
1968, pp 1216-1224.
BISI 7099

**Pickling Wire Coil with Vibration, H.-L. Kremer,
H.-E. Mobius.**

GERMAN, per, Stahl Eisen, Vol 88, 31 October 1968,
pp 1229-1234.
BISI 7098

**The Use of Simulation Methods in Ferrous Metallurgy
Part 2: Improving the Flow of Materials in a
Steel Bar Finishing Shop by Simulation on an
Electronic Computer, by A. Schreiner, et al.**

GERMAN, per, Stahl Eisen, Vol 88, No 23, 1968,
pp 1309-1315
*BISI 7257

**The Water Gas and Carburizing Reactions Taking
Place in the Open-Coil, Bell-Type Annealing**

Furnace, by E. Schurmann, J. M. Wesseling.
GERMAN, per, Stahl Eisen, Vol 88, 28 November 1968,
pp 1338-1348.
BISI 7121

**Structural Features of the Steel Industry,
by H. Schenck.**

GERMAN, per, Stahl Eisen, Vol 88, 12 December
1968, pp 1393-1400.
BISI 6942

**New Results of the Experimental Low-Shaft Furnace
at Ougree, by A. Decker, A. Poos.**

GERMAN, per, Stahl Eisen, Vol 88, No 25, 1968,
pp 1407-1414.
*HB 7755

**A System of Long-Term Top-Management Planning in
a Combine of the Steel Producing and Processing
Industry, by A. Friedrich.**

GERMAN, per, Stahl Eisen, Vol 89, January 1969,
pp 1-6.
*BISI 7209

**Technical and Economic Bases for Comparative
Assessment of Coking Coals, by G. W. Lask.**

GERMAN, per, Stahl und Eisen, No 1, 9 January
1969, pp 6-14.
*BISI 7175

**Sealing and Pickling Properties of Hot-Rolled
Strip, by P. Funke.**

GERMAN, per, Stahl Eisen, Vol 89, 6 February 1969,
pp 101-114.
*BISI 7180

**Contribution to the Problem of Welding Cold
Formed Sections, by P. U. Schmithals, et al.**

GERMAN, per, Der Stahlbau, No 1, 1965, pp 13-19.
BISI 7061

Gear Couplings, by Von Karl Stolzle.

GERMAN, per, Technische Mitteilungen, Vol 7,
July 1962, pp 316-325.
*BISI 7173

Friction Weld Joints in Steel, by

F. Eichhorn, R. Schaefer.
GERMAN, per, Technische Mitteilungen,
Vol 61, No 1, 1968, pp 5-13.
NLL Ref: 5828.4F (M.7464)

**Segregation Phenomena During Solidification of Steel
in Small Moulds, by M. Wahlster, H. Brocker.**

GERMAN, per, Techn. Mitt., Krupp. Forschungsber.,
Vol 20, No 10, October 1962, pp 73-82.
BISI 6610

The Fatigue Strength of Reinforcing Bars in Concrete, by H. Wascheidt.
GERMAN, per, Techn. Mitt. Krupp Forschungsber., Vol 24, No 4, November 1966, pp 173-194.
BISI 5969

Gas Evolution and Formation of Skin Bloholes in the V Casting and Freezing of Killed Steel Ingots, by W. Volker.
GERMAN, Techn. Mitt., Krupp Forschungsber, Vol 26, No 3/4, 1968, pp 96-109; also in Stahl Eisenh., Vol 88, No 26, 1968, pp 1455-1463.
*HB 7728

Internal Stresses in Steel---A Practical Survey, by H. Buhler, A. Peiter.
GERMAN, per, Techn. Rundschau, Nos 40 & 42, 1961, pp 7-28.
BISI 5349

Determination by Means of Static Bend Tests of Mechanical Properties of Gas-Carburized and Gas-Carbonitrided 18 NiCrMo 14 Case-Hardening Steel, by H. J. Laudenberg.
GERMAN, rpt, Thesis Presented to Munich Techn. Hochschule, 19 July 1967, 162 pages.
*BISI 7178

Effect of Pouring and Solidification of Rimming Steel on Slab F Surface and on Cleaness, by Th. Kootz.
GERMAN, per, Thyssen Forschung, Vol 1, No 1, 1969, pp 1-10.
*HB 7747

The Notch-impact Ductility of Ferritic S.G. Iron, Part 1, Fundamentals, by H. Muhlberger.
GERMAN, per, VDI Zeit., Vol 110, 1968, pp 729-737.
NLL Ref: S022.4 (68/240)

Permanent Mould Castings From Iron Carbon Alloys, by F. Stadler.
GERMAN, per, VDI Zeitschrift, Vol 110, No 18, 1968, pp 745-749.
NLL Ref: 3774.5 (1848)

Structure and Properties of Heat Resisting Steels, by H. Gerlach, H.-R. Kautz.
GERMAN, per, V.D.I. Zeit., Vol 110, No 11, November 1968, pp 1371-1378.
BISI 6981

Centrifugal State of Rotating Bodies.
GERMAN, rpt, Verein Deutscher Ingenieure, Report No VDI 2060.
*BISI 7176

Kinetics of the Corrosion of Iron Accompanied by Hydrogen or Oxygen Depolarisation, by J. Sedzimir.
GERMAN, per, Werks. Korros., Vol 17, No 7, July 1966, pp 556-567.
BISI 5710

Bromine-Methanol as an Aid for Oxide Isolation from Steel and Related Alloys, Part 4: Operating Instructions for Bromination, by U. Bohnstedt.
GERMAN, per, Z. Fur Anal. Chemie, Vol 199, No 10, 1964, pp 114-117.
BISI 7011

Spectrographic Analysis of Steel Chips of Different Form and Hardness, by K. H. Koch.
GERMAN, per, Z. Anal. Chem., Vol 231, No 3, 1967, pp 173-181.
*BISI 7259

Contact Resistance and Contact Surface, by K. Millian, W. Reider.
GERMAN, per, Zeit Angew Phys, Vol 8, 1956, pp 28-34.
NLL Ref: 9022.09 (4962)

Stroboscopical Observations of Ferromagnetic Domains by Magnetisation in Alternating Fields up to 20kcpsec., by B. Passon.
GERMAN, per, Z. Angew. Phys., Vol 25, No 2, 1968, pp 56-61.
*BISI 7215

Contribution to the Testing of Consumer Goods From Plastics. Identification of Antioxidants of UV Absorbents in Plastics, by H. Woggon, D. Jehle.
GERMAN, per, Zeit. Lebensm. Uters. Forsch., Vol 136, No 2, 1968, pp 77-82.
NLL Ref: 528.4F (M.13050)

Metallographic Studies at the Physikalisch-technische Reichsanstalt, Berlin Survey, by A. Schulze.
GERMAN, per, Zeit fur Metallkunde, Vol 26, No 5, 1934, pp 119-120.
NTC 69-10763-11F

The Effect of Quenching Rate on the Ageing Characteristics of Some Aluminium-Zinc-Magnesium Alloys, by A. J. Bryant.
GERMAN, per, Zeit. Metallkunde, Vol 58, No 10, 1967, pp 684-691.
NLL Ref: 5828.4F (M.13061)

Work-Hardening and Internal Stresses in Copper-Nickel Alloys, by G. Faninger.
GERMAN, per, Zeit Metallkunde, Vol 59, 1968, pp 277-283.
NLL Ref: 9022.4 (68/201)

Photoeffect in Lead Sulphide and Allied Compounds, by R. Stein, B. Reuter.
GERMAN, per, Zeit Naturforsch., Vol 10 A, 1955, pp 655-656.
NLL Ref: 5828.4F (12955)

To the Theory of Coercive Force, by M. Kersten.
GERMAN, per, Zeitschrift Physik, Vol 124, September 1948, pp 714-741.
*BISI 7214

The Application of the Tenifer Process to the Manufacture of Cutting, Punching and Drawing Tools, by R. Schneek.
GERMAN, per, Z. Wirtschaftliche Fertigung, Vol 59, November 1964, pp 515-520.
BISI 7036

Intensification of Pulp Bleaching with Sulfamic Acid, by G. Fiehn.
GERMAN, per, Zellstoff und Papier, Vol 17, No 3, 1968, pp 67-71.
NTC 69-10977-11L

New Investigations on the Quality Properties of Limes with Different Degrees of Burning, by G. Pohl.
GERMAN, per, Zement, Kalk, Gips, No 12, 1959, pp 566-572.
*BISI 7216

Method of Producing Homogeneous Pieces of Tantalum or Other Metals Difficult to Melt,
GERMAN, Patent No 188,466.
NLL Ref: 5828.4F (M.13029)

Process for the Preparation of Plastics for Electrotechnical Aims, by F. Weigel.
GERMAN, Patent No 967,246.
NTC 69-10785-11I

Process for the Preparation of Expandable Styrene Polymers, by B. Anilin, et al.
GERMAN, patent, 1,273,199.
NLL Ref: 5828.4F (M.13063)

Vitroceraams, by O. Knapp.
HUNGARIAN, per, Epitoanyag, Vol 1, No 9, 1960, pp 324-328.
NTC 69-10881-11B

Lowering of the Crystallization Temperature of Vitrified Ceramic Materials, by B. Locsei.
HUNGARIAN, per, Epitoanyag, Vol 19, No 4, 1967, pp 126-130.
NTC 69-10753-11B

Primary Mills, by F. Artuso.
ITALIAN, per, Boll. Tecn. FINDIDER, No 253, March 1968, pp 169-187.
*BISI 7166

Morphological-Structural Metamorphism of Refractory Silica and Aluminosilicate Products During Metallurgical Use, by G. Grungo.
ITALIAN, per, Met. Ital., Vol 59, No 1, 1967, pp 18-27.
BISI 6101

A Contribution to the Study of How Aluminium and Nitrogen Affect Crack Formation in Medium Carbon Steel Ingots, by E. Colombo, B. Cesari.
ITALIAN, per, Met. Ital., Vol 59, No 2, Feb 1967, pp 71-75.
BISI 6008

Specification and Control of the Transformation of Defects in Rail Steel in Ingot and Finished Product, by P. L. Panciatici, A. Guerrieri.
ITALIAN, per, Met. Ital., Vol 59, No 3, 1967, pp 157-162.
BISI 6100

Contribution to the Development of New High Strength Constructional Steels with Good Toughness, by P. Brozzo, V. Berruti.
ITALIAN, per, Met. Ital., Vol 59, April 1967, pp 247-255.
BISI 6189

Chlorinating Roasting of Calcined Pyrites Containing Copper and Zinc, by G. Drigo, et al.
ITALIAN, per, Met. Ital., Vol 59, No 10, 1967, pp 852-860.
BISI 6497

Comparison of Various Metal Roofing Materials in a Highly Corrosive Marine Industrial Atmosphere.
ITALIAN, per, Montevecchio, Vol 17, January-June, 1966, pp 1-9.
BISI 6680

On the Atmospheric Stress Corrosion Cracking of Low-Alloy High Strength Steels and Stainless Steels, by K. Horikawa, et al.
JAPANESE, per, J. Soc. Mat. Sci. Japan, Vol 17, August 1968, pp 723-728.
BISI 6936

Corrosion of Stainless Steels in Boiling Concentrated Nitric Acid Containing Chromium Ions, by S. Kishima.
JAPANESE, per, J. Soc. Mat. Sci. Japan, Vol 17, No 8, August 1968, pp 729-736.
BISI 6930

Studies on the Characteristics of Fe-Si Alloys in Potentiostatic Polarization, by O. Tajima, et al.
JAPANESE, per, J. Soc. Mat. Sci. Japan, Vol 17, August 1968, pp 737-742.
BISI 6940

On the Measurement of Residual Stress in Heat Treated Steels by X-Ray Method, by M. Motoyama.
JAPANESE, per, J. Soc. Mat. Sci. Japan, Vol 17, December 1968, pp 1077-1082.
*BISI 7265

Installation and Operation of Pelletizing Plant at Kobe Works, by W. Taguchi, K. Takeda.
JAPANESE, per, Kobe Seiko Giho, Vol 17, No 4, 1967, pp 120-128.
BISI 6524

Dynamic Properties of Concrete Subjected to High Temperatures, by T. Kawahara.
JAPANESE, per, Konkurito Janaru, 7(3), 1969, pp 12-19
*AEC/ORNL/Tr-2124

The Hydrogen Reduction of Hematite Ores at Lower Temperatures, by Y. Hara, et al.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 1, January 1968, pp 77-83.
BISI 6941

Study on the Phase Analysis of Vanadium in Steel, by K. Kawamura, et al.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 4, 1968, pp 375-378.
BISI 6857

The Temperature Dependence of the Impact Extrusion Punch Pressure of Carbon Steels in γ Range, by M. Ishii.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 5, pp 464-469 - adapted.
BISI 6806

Stress Corrosion Cracking of Austenitic Stainless Steels in High Temperature Water, by M. Okazaki, et al.
JAPANESE, per, Nihon Kinzoku Gakkaishi, No 29, 1965, pp 340-345.
NLL Ref: 9022.09 (4730)

Studies on Synthetic Fibers. Part VIII. Synthesis of Polycapramide Intermediate Products, by K. Hoshino, I. Moissiki.
JAPANESE, per, Nippon Kagaku Zasshi, Vol 63, No 9, 1942, pp 1170-1174.
NTC 69-10843-11E

The Hardenability of Plain Carbon Steel is Improved by the "Deform-Quenching" Treatment. The T-T-T Curve is Shown and Discussed from Microstructural Observations of Specimens of a Drawn 0.42% C Steel Wire 2.0 mm in Diameter, by S. Yamada, et al.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 5, 1968, pp 487-492.
*BISI 7149

Identification of Initial Oxide Films on 18-8 Stainless Steel, by Y. Tsuji, et al.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 6, pp 577-580.
*BISI 7179

On Behaviours of Alloy Elements in Steel Due to Carburizing Gas Atmosphere, by M. Ichihara.
JAPANESE, per, Nippon Kinzoku, Vol 32, No 8, 1968, pp 745-751.
*BISI 7172

Studies of Polyester Resin Paints. Part IX. Polyester resin Modified with Tetrahydrophthalic Anhydride, by K. Noma, R. Yosomiya.
JAPANESE, per, Shikizai Kyokaishi, Vol 37, No 5, 1964, pp 165-168.
NTC 69-10890-111

β -Ray Coating Thickness Gauge, by S. Ishii, et al.
JAPANESE, per, Sumi. Met., Vol 17, No 4, 1965, pp 83-87.
BISI 6532

Elevated Temperature Strength of Tubes and Pipes for High Temperature Service, by E. Miyoshi, et al. JAPANESE, per, Sumitomo Metals, Vol 19, No 2, pp 229-244.
*BISI 6483

Modification of Stainless and Heat Resisting Steels by Means of Rare Earth Additions, by M. Hasegawa. JAPANESE, per, Tetsu to Hagane, Vol 51, May 1965, pp 1162-1174.
*BISI 7154

Cutting Short the Time of Spheroidization of Ball-Bearing Steel by Austempering Annealing, by E. Miyoshi. JAPANESE, per, Tetsu to Hagane, Vol 51, June 1965, 1260-1267.
BISI 6825

Theory of Solidification and Segregation, by K. Niwa. JAPANESE, per, Tetsu to Hagane, Vol 53, No 10, October 1967, pp 1425-1441.
BISI 6655

Study on the Manufacture of Self Fluxed Pellets and the Use to Blast Furnace, by S. Fujii, et al. JAPANESE, per, Tetsu to Hagane, Vol 54, No 10, October 1968, pp 1241-1259.
*BISI 7158

Oxide Inclusions in 18-8 Stainless Steel Deoxidized with Aluminium, by T. Fukuyama, K. Segawa. JAPANESE, per, Tetsu to Hagane, Vol 55, No 2, 1969, pp 39-44.
*HB 7756

Study on Radial Velocity Distribution of Particle Flow in Shaft Kiln. Part I., by M. Takatsu. JAPANESE, per, Yogyo Kyokaishi, Vol 73, No 4, 1965, pp 87-90.
NTC 69-10792-11B

Stress Distribution in Hermetic Compression Seals, by Y. Sameshima, M. Nishiyama. JAPANESE, per, Yogyo Kyokaishi, Vol 73, No 7, 1965, pp 156-161.
NTC 69-10787-11A

1971-1975 Tasks of Nonferrous Metals Industry, by Slawomir Kalerbka, Franciszek Stysz, 13 pp. POLISH, per, Gospodarka Planowa, Warsaw, No 1, Jan 1969, pp 33-37.
JPRS 47730

Goals of Polish Nonferrous Industry Outlined, by H. Stasikowski, 5 pp. POLISH, np, Pracowni Techniczny, Warsaw, 12 Jan 1969, p 2.
JPRS 47716

Phenomena Occurring on Contact Surface of Silica Glasses and Refractory Materials. Part III. Studies Concerning Corrosion of Refractory Materials Other Than Fire Clay, by J. Chmielenski. POLISH, per, Szklo i Ceramika, Vol 14, No 11, 1963, pp 291-294.
NTC 69-10788-11B

The First Continuous Casting Plant for the Production of Material of Round Cross-Section, by H. G. Baumann. PORTUGUESE, per, Eng. Miner. Met., Vol 47, No 1, January 1968, pp 13-16.
BISI 6588

Thermic Aspects of Sinterization with (Vegetable) Charcoal, by J. Wscieklica. PORTUGUESE, per, Metalurgia, Vol 18, November 1962, pp 939-958.
*BISI 7245

The Use of Sinter and of High Percentages of Charcoal (Wood-Carbon) in Acesitas Reducing Furnace, by A. C. da Fonseca. PORTUGUESE, per, Metalurgia, Vol 22, April 1966, pp 272-280.
*BISI 7246

Behaviour of Iron Ore Pellets Submitted for Reduction, by R. Pimental de Souza. PORTUGUESE, per, Met. A.B.M., Vol 22, No 9, Sept 1966, pp 723-728.
BISI 5873

Radioactive Isotopes Used in the Glass Industry, by A. Bujini. RUMANIAN, per, Industria Usoara, Vol 13, No 11, 1966, pp 691-693.
NTC 69-10754-11B

The Efficiency of Self-Carburetting of Natural Gas Flames in Open-Hearth Furnaces, by D. Gracov, I. Iordache. RUMANIAN, per, Met. (Bucharest), Vol 17, No 8, 1965, pp 410-414.
BISI 6434

The Causes of Brittleness in Steels,
by T. Negrescu, et al.
ROMANIAN, per, Studii Cerc. Mat., Vol 5, No 1, 1961
pp 7-32.
BISI 6089

Friction and Adhesion, by M. F. Dumas.
SPANISH, rpt, International Symposium on
Prestressing Steels, Rpt No 8, 1968,
pp 79-90.
NLL Ref: 9022.09 (4954)

New Prospects in Steelworks of the Near Future---
Continuous Refining of Hot Metal, by
J. M. Kindelan, P. Vaysiere.
SPANISH, per, Rev. Met.-CENIM, Vol 3,
Nov-Dec 1967, pp 489-495.
BISI 6268

The Value of Charcoal for Blast Furnace Operation,
by H. Bergstrom.
SWEDISH, per, Jernkon. Ann., Vol 122, No 6, 1938,
pp 221-242.
*BISI 7248

Charring in Charcoal Furnaces and So-Called
Home Charring, by H. Bergstrom.
SWEDISH, per, Jernkon. Ann., Vol 124, No 6,
1940, pp 265-273.
*BISI 7248

X-Ray Method for Residual-Stress Measurements,
by G. Alpsten, P. Spiegelberg.
SWEDISH, per, Jernkon. Ann., Vol 151, No 1,
1967, pp 62-83.
BISI 6007

Changes in Steels for Reactor Pressure Vessels
After Neutron Irradiation, by H. P. Myers, et al.
SWEDISH, per, Jernkon. Ann., Vol 151, No 3,
1967, pp 197-215.
BISI 6191

The Swedish Charcoal Furnaces, by I. Bohm.
SWEDISH, per, Jernkon. Ann., Vol 151, No 6/7,
1967, pp 445-458.
*BISI 7250

Creep of Concrete Under a Multiaxial State of
Stress, by Lauge F. Nielsen, 25 pp.
SWEDISH, per, Nord Betong, No 2, 1968, pp 169-192.
ABC-CRNL-Tr 2065

The Coagulation of Viscose During Ripen-
ing, by A. Lyselius, O. Samuelson.
SWEDISH, per, Svensk Papperstidn, Vol 62,
1959, pp 751-752.
NLL Ref: 5828.4F (7451)

Nature and Effects of Volatile Charcoal Materials
Used in the Monlevade High Blast Furnaces, by
J. Burrell.
PORTUGUESE, per, Metalurgia, Vol 17, July 1961,
pp 645-666.
*BISI 7244

Mathematical Sciences

Use of Chebyshev Polynomials for Computing a
Cartographic Projection From a Draft Grid, by
A. A. Paplov. 9 pp.
RUSSIAN, rpt, AN SSSR. Geograficheskoye Osh-
chestvo Novyye Problemy i Metody Kartografii,
1967, pp 32-39.
AIR/FTD/HT-23-654-68

On Differential Equations and Inequalities with
Discontinuous Right Members. I., by V.M. Matrosov,
30 pp.
RUSSIAN, per, Differentsial'nyye Uravneniya,
Vol 3, No 3, 1967, pp 395-409.
ARM/RSIC/Tr-893-69

An Electrical Analog for Nonstationary Heat
Exchange in a Dispersed System, by
N. V. Antonishin, L. Ye. Simchenko. 9 pp.
RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal,
Vol 12, No 5, 1967, pp 592-598.
AIR/FTD/HT-23-857-68

Progress in Mathematics, Vol 7: Probability
Theory, Mathematical Statistics, and Theoretical
Cybernetics.
RUSSIAN, bk, Itogi Nauki, Seriya Matematika:
Teoriya Veroyatnostei, Matematicheskaya Statis-
tika, Teoreticheskaya Kibernetika. 1968.
CONSULTANTS BUREAU/PLENUM PRESS

On Linear Differential Equations with
Randomly Perturbed Parameters, by
M. G. Shur.
RUSSIAN, per, Izv AN SSSR, Ser Mat.,
Vol 29, No 4, 1965, pp 783-806.
Dept of Navy APL/JHU T-2260

Optimal Threshold for a System of Binary Storage With Independent Errors, by T.A. Valiyev. 7 pp.
RUSSIAN, per, Izvestiya AN UzSSR, Seriya Tekhnicheskikh Nauk, No 4, 1967, pp 41-45.
AIR/FTD/MT-23-885-68

Analysis of Markov Stochastic Processes in Linear and Non-linear Systems Using Analog Computers, by V. D. Razevig.
RUSSIAN, per, Izv. Vuzov Radiofizika, Vol 11, No 3, 1968, pp 59-474.
Dept of Navy APL/JHU T-2249

The Principle of Increasing of the Degree of Indeterminacy of Boolean Functions, an Algorithm for Determining the Shortest Disjunctive Normal Form, by Yu. N. Komev. 22 pp.
RUSSIAN, per, Kibernetika, no 4, 1967, pp 9-16.
AIR/FTD/MT-24-333-68

Development of a Method of Integral-Differential Equations in the Theory of Plates and Shells, by B. N. Fradlin. F. A. Tsykunov.
RUSSIAN, per, Prikl Mekh, Vol 3, No 12, 1967, pp 10-15.
NTC 69-10762-128

On Some Methods of Linearization and Approximate Solution of Nonlinear Functional Equations, by B. A. Vertgeim.
RUSSIAN, per, Sibirskiy Mat Zhurnal, Vol 6, No 3, 1965, pp 686-691.
Dept of Navy APL/JHU T-2250

Oscillation of a Linear Vibrator as a Random Process, by V. I. Osorin. 37 pp.
RUSSIAN, per, Trudy Leningrad. Politehnicheskii Institut, No 210, 1966, pp 171-198.
AIR/FTD/MT-24-199-68

Uniqueness of the Solution of Cauchy's Problem for Systems of Partial Differential Equations, by N. N. Chaus.
RUSSIAN, per, Ukr Mat Zh, Vol 17, No 1, 1965, pp 126-130.
Dept of Navy APL/JHU T-2254

On the Convergence of the Collocation Method, by M. F. Kaspshitskaya, N. I. Tukalevskaya.
RUSSIAN, per, Ukr. Mat Zh, Vol 19, No 4, 1967, pp 48-56.
Dept of Navy APL/JHU T-2253

Asymptotic Formulas for Spherical Legendre Functions of Large Degree, by L. N. Karmazina.
RUSSIAN, per, Vychislitel'naya Matematika, No 6, 1960, pp 3-16.
Dept of Navy NRL Trans No 1167

Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol 12, An Extension of the Skolem-Goodstein Program in constructive Mathematics, by N. A. Shanin.
RUSSIAN, bk, Zapiski Nauchnykh Seminarov Leningradskogo Otdeleniya Matematicheskogo Instituta im. V. A. Steklova AN SSSR: Ob Odnom Rasshirenii Programy Skolema-Gudsteina v Konstruktivnoi Matematike, 1969.
CONSULTANTS BUREAU/PLENUM PRESS

On the Stability of Difference Schemes for the Cauchy Problem, by S. G. Kreyn, L. N. Shablitskaya.
RUSSIAN, per, Zh Vychislitel'noy Mat i Mat Fiz, Vol 6, No 4, 1966, pp 648-664.
Dept of Navy APL/JHU T-2259

Formulas of Numerical Differentiation, by N. N. Gudovich.
RUSSIAN, per, Zh Vychislitel'noy Mat i Mat Fiz, Vol 6, No 4, 1966, pp 760-762.
Dept of Navy APL/JHU T-2258

On Asymptotic Stability According to Lyapunov in Some Critical Cases, by V. V. Kostin. 5 pp.
UKRAINIAN, per, Dopovidi Akad Nauk URSR, Vol 35, No 1, 1967, pp 21-25.
ARM/RSIC/Tr-892-69

The Use of Statistical Methods for a Mathematical Algorithm to Describe the Control of the Oxygen Converter Process at M. K. Kremicovtzi, by D. Boyadzhiev, et al.
BULGARIAN, per, Rudodobiv Met., Vol 23, No 8, 1968, pp 35-39.
*BISI 7162

Program for Development of Mathematics Outlined, by Lyubomir Iliev. 36 pp.
BULGARIAN, per, Spisanie na Bulgarskata Akademiya na Naukite, Sofia, No 3, 1968, pp 3-35.
JPRS/47887

A Concise Handbook of Mathematics, Vol 1 of 2, by I.N. Bronstein, K.A. Semendjajew. 623 pp.
GERMAN, bk, Taschenbuch der Mathematik, 1966, pp 1-296.
AIR/FTD/MT-23-178-68

A Concise Handbook of Mathematics, Vol 2 of 2, by I.N. Bronstein, K. A. Semendjajew. 623 pp. GERMAN, bk, Taschenbuch der Mathematik, 1966, pp 297-623.
AIR/FTD/MT-23-178-68

Considerations of the Critical History of the Theory of Relativity. First Part, by F. Kottler. ITALIAN, per, Scientia, Vol 26, No 2, 1924, pp 230-242.
*AEC/ORNL/Tr-2066

Considerations of the Critical History of the Theory of Relativity. Second Part, by Henri Poincare. ITALIAN, per, Scientia, Vol 26, No 2, 1924, pp 300-316.
*AEC/ORNL/Tr-2122

Mechanical, Industrial, Civil & Marine
Engineering

Artificial Air Cooling for Building Pile Foundations in Permafrost, by G. N. Maksimov. RUSSIAN, per, No 55, 1964, pp 103-105. ACSI J-6370
FSTC-HT-23-780-68

Marine and Stationary Liquid Metal Power Plants, by A. A. Kanayev. RUSSIAN, bk, 1968.
*Dept of Navy NIC

Development of Light Industry Discussed, by N. Tarasov, 10 pp. RUSSIAN, per, Agitator, Moscow, No 4, Feb 1969, pp 16-19.
JPRS 47837

Problems of Welders in the Field of Automation, by G.A. Nikolayev. 5 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 3-4.
AIR/FTD/MT-24-200-68

Development of Complex Automation of Assembly-Welding Processes in Machine Construction, by P.I. Sevbo. 21 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 5-16.
AIR/FTD/MT-24-200-68

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Automated Welding in Carbon Dioxide, by N.M. Novozhilov, I.L. Brinberg. 12 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 16-22.
AIR/FTD/MT-24-200-68

Automated Equipment for Butt Welding, by A.S. Gel'man, S.N. Mel'bard, et al. 9 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 23-28.
AIR/FTD/MT-24-200-68

Programmed Control of Shifts in Welding Equipment, by V. A. Timchenko, 27 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 28-42.
AIR/FTD/MT-24-200-68

Methods of Program Control of Argon Arc Welding of Nonturning Pipe Joints, by V.N. Volchenko, Yu. S. Ishchenko. 8 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 43-47.
AIR/FTD/MT-24-200-68

New Principles in Construction of Phototracing Systems and Prospects for Their Application in Industry, by Sh. A. Vayner. 17 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 52-61.
AIR/FTD/MT-24-200-68

Highly-Mechanized Production Line for Welding I-Beams and Specialized Sections for Production of Welded Structures, by V.G. Okara. 14 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 62-69.
AIR/FTD/MT-24-200-68

Mechanization and Automation of Welding Processes at the Gor'kiy Automobile Plant, by M. N. Levin. 12 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 70-76.
AIR/FTD/MT-24-200-68

Automation and Mechanization of Welding of Railroad Tank Cars, by D. P. Antonets. 7 pp. RUSSIAN, bk, AN SSSR, GNIIM, Automatizatsiya Protessov Svarki i Obrabotki Davleniyem, 1966, pp 76-79.
AIR/FTD/MT-24-200-68

Organization of Mechanized and Automated Welding Lines, by A. G. Logvinenko, 6 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Avtomatizatsiya Protseessov Svarki i Obrabotki Davleniyem, 1966, pp 79-82.
AIR/FTD/MT-24-200-68

Creation of a Complex of Automatic and Semi-automatic Resistance Welding Machines and Mechanized Production Lines for Welding Large Sheet Structures, by V. V. Verzhinskiy, 15 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Avtomatizatsiya Protseessov Svarki i Obrabotki Davleniyem, 1966, pp 82-90.
AIR/FTD/MT-24-200-68

Automatic Welding of Silver Contacts, by R.B. Rudzit, Ye. V. Burbiyeris, et al. 10 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Avtomatizatsiya Protseessov Svarki i Obrabotki Davleniyem, 1966, pp 90-95.
AIR/FTD/MT-24-200-68

Mechanization of the Process of Production of Glue-welded Connections, by V. N. Shavyrin, 11 pp.
RUSSIAN, bk, AN SSSR, GNIIM, Avtomatizatsiya Protseessov Svarki i Obrabotki Davleniyem, 1966, pp 99-105.
AIR/FTD/MT-24-200-68

Recent Advances in Automatic Control Reviewed, 8 pp.
RUSSIAN, per, Avtomatika i Telemekhanika, Moscow, No 1, 1969, pp 164-168.
JPRS 47747

Motor Vehicle Production Tasks for 1969 Defined, by A. A. Anders, 10 pp.
RUSSIAN, rpt, Avtomobil'naya Promyshlennost', Moscow, Jan 1969, pp 1-3.
JPRS 47668

Capital Construction Plan Must be Fulfilled, 5 pp.
RUSSIAN, per, Beton i Zhelezobeton, Moscow, No 2, Feb 1969, pp 1-2.
JPRS 47902

Tasks Assigned to Rural Construction Workers, by G. A. Dralo, 6 pp.
RUSSIAN, per, Beton i Zhelezobeton, Moscow, No 2, Feb 1969, pp 3-4.
JPRS 47902

MVSh-1 and 3 for Unloading Railroad Freight Cars, by A. I. Yefremov.
RUSSIAN, per, Byulleten Tekhniko-Ekon Informatsiy, No 2, 1961, pp 67-69.
ACSI J-6325
FSTC-HT-23-058-69

New Directions in Soviet Tire Production, by L. Morozov, 8 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No 6, Feb 1969, pp 5-6.
JPRS 47710

Equipment Design for Meat, Dairy Industry Lags, by S. Bobylev, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, Moscow, Mar 1969, p 16.
JPRS 47837

Progress Made in Eastern Siberian Construction, by B. Brodskiy, A. Romas, 5 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, Moscow, No 12, 1968, pp 41-43.
JPRS 47623

Methods of Organizing Engineering Research Cited, by P. Iarlykov, S. Mikhnikov, 6 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, Moscow, Dec 1968, pp 44-47.
JPRS 47623

Great Expansion of Uzbek Light Industry Planned, 9 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, Oct 1968, pp 3-6.
JPRS 47624

Weak Uzbek Chemicals to Rise in 1971-1975, by A. Dul'man, 10 pp.
RUSSIAN, per, Ekonomika i Zhizn', Tashkent, No 11, 1968, pp 73-78.
JPRS 47668

Repair of Hydrogen-Cooled Synchronous Condenser Slip-rings, by Yu. N. Gerasimenko.
RUSSIAN, per, Energetik, Vol 15, No 10, 1967, pp 13-14.
NLL Ref: 9022.09 (48390)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Buckling of the KhtGZ K-300-240 Turbine Casings During the First Period of Operation, by G. T. Shkol'nik.
RUSSIAN, per, Energetik, Vol 16, No 1, 1968, pp 9-12.
NLL Ref: 9022.03 (4273)

Selection of the Relative Thickness of Profiles of Blades of an Axial-Flow Compressor, by V. V. Semov. 9 pp.
RUSSIAN, per, Energomashinostroyeniye, No 9, 1966, pp 6-8.
AIR/FTD/MT-24-326-68

Three-Stage Throttling Devices for Warming and Draining Main Steam Pipes of 300 MW Units, by P. I. Starostin, I. G. Gorbenko.
RUSSIAN, per, Energomashinostroyeniye, Vol 13, No 10, 1967, pp 36-38.
NLL Ref: 9022.09 (4812)

Effect of Diaphragm Power Supports on the Flow Coefficient and Stage Efficiency of H.P. Steam Turbines, by Ye. Yu. Yushkevich.
RUSSIAN, per, Energomashinostroyeniye, Vol 14, No 2, 1968, pp 14-16.
NLL Ref: 9022.03 (4280)

Development of Studies on Noise and Vibrations in Railroad Transportation and Their Results, by A. M. Volkov. 7 pp.
RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolvaniya, No 11, 1967, pp 58-60.
AIR/FTD/MT-24-358-68

Operations of the Baltic Railroad in 1968, by N. Krasnobayev, 5 pp.
RUSSIAN, rpt, Gudok, Moscow, 4 Mar 1969, pp 1-2.
JPRS 47837

Detecting Sources of Binding on the Friction Surfaces of Machine Parts by Spectral Analysis, by B.I. Kostetskiy, N.P. Ryzhikh, et al. 5 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Mashinostroyeniye, No 9, 1967, pp 51-53.
AIR/FTD/MT-24-327-68

Static Response of Radial Gas Dynamic Bearing to Angular Displacement of Journal Axis, by Yu. R. Ivanov. 6 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Priborostroyeniye, Vol 10, No 7, 1967, pp 112-115.
AIR/FTD/MT-23-417-68

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Planning Given for Long-Range Equipment Needs, by V. Fal'tsman, 14 pp.
RUSSIAN, rpt, Material'no-Tekhnicheskoye Snabzheniye, Moscow, Jan 1969, pp 23-31.
JPRS 47639

Greater Efficiency of Freight Transport Urged, by E. Lazarenko, 10 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, Moscow, No 1, 1969, pp 32-37.
JPRS 47733

Computerized Automatic Control of Power Plants, by M.A. Dual'. 12 pp.
RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Upravleniya, No 5, 1967, pp 20-24.
AIR/FTD/MT-24-402-68

Construction Machinery for Extreme North Shown, by A. Ye. Volkova, 10 pp.
RUSSIAN, per, Mekhanizatsiya Stroitel'stva, Moscow, No 2, 1969, pp 25-27.
JPRS 47881

Meat Industry 1969 Tasks, Operations Planned, by P. Boldyrev, 8 pp.
RUSSIAN, rpt, Myasnaya Industriya SSSR, Moscow, Feb 1969, pp 1-5.
JPRS 47837

Shortcomings in Cattle Deliveries Discussed, by A. Savchenko, 5 pp.
RUSSIAN, rpt, Myasnaya Industriya SSSR, Moscow, Feb 1969, pp 38-39.
JPRS 47837

Technical Progress in Meat Industry Described, by L. Surtsev, 11 pp.
RUSSIAN, per, Myasnaya Industriya SSSR, Moscow, No 1, Jan 1969, pp 4-7.
JPRS 47774

Outlook for Design Development in Construction, by A. Dekhtyar', 6 pp.
RUSSIAN, per, Na Stroykakh Rossii, Moscow, No 1, 1969, pp 25-27.
JPRS 47623

Certain Problems of the Mechanics of High Parameters, by P. M. Ogibalov, I. A. Kiyko. 47 pp.
RUSSIAN, rpt, Ocherki po Mekhanike Vysokikh Parametrov, 1966, pp 211-249.
AIR/FTD/MT-24-353-68

Shortcomings in Construction Industry Cited,
by A. Mitrofanov, 19 pp.
RUSSIAN, per, Plavovoye Khozyaystvo, Moscow,
No 1, 1969, pp 66-77.
JPRS 47902

Experimental Investigation of Deformation of
Constructions by Means of Curvature Gauges With
Pneumatic Contacts, by O.N. Chekin,
S.V. Malashenko. 10 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 3, No 9
1967, pp 99-100.
AIR/PTD/INT-23-1074-68

Strength of Turbine Disks, by V. R. Rahinovich.
121 pp.
RUSSIAN, bk, Prochnost' Turbinnykh Diskov, 1966,
pp 1-151.
AIR/PTD/INT-23-78-68

Machine Tool-Building Efficiency Must Increase,
by B. Manukyan, 5 pp.
RUSSIAN, per, Promyshlennost' Armenii, Yerevan,
No 12, 1968, pp 37-39.
JPRS 47943

Youth Urged to Become Machine Operators, by
V. Knyazyuk, 7 pp.
RUSSIAN, np, Rabochaya Gazeta, Kiev, 15 Feb 1969,
p 3.
JPRS 47668

Propagation and Damping of Sound Vibrations on
Ships, by A. S. Mikhiforov, S. V. Budrin, 254 pp.
RUSSIAN, bk, Rasprostraneniye i Pogloshcheniye
Zvukovoy Vibratsii na Sudakh, Leningrad, 1968,
216 pp.
JPRS 47803

Future Plans for RSFSR River Transport Reviewed,
10 pp.
RUSSIAN, per, Rechnoy Transport, Moscow, No 1,
1969, pp 1-3.
JPRS 47670

Better Utilization of Sea-River Fleets Needed, by
N. Semenov, 5 pp.
RUSSIAN, per, Rechnoy Transport, Moscow, No 1,
1969, pp 11-12.
JPRS 47670

Dynamic Programming of Transport Fleet,
by P. M. Zaglubotskiy, 5 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, Moscow,
No 12, 1968, pp 71-73.
JPRS 47859

Operator Model' for Calculating Loading
Losses of Fish, by D. Ya. Tenebaum, 6 pp.
RUSSIAN, per, Rybnoye Khozyaystvo, Moscow,
No 12, 1968, pp 73-75.
JPRS 47859

USSR Minister Discusses Rural Electrification,
13 pp.
RUSSIAN, np, Sel'skaya Zhizn', Moscow, 15 Feb
1969, p 3.
JPRS 47783

Differentiation of Bonuses in Machine Building,
by I. Batkayeva, 12 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, Moscow,
No 1, Jan 1969, pp 35-42.
JPRS 47783

Labor Discipline Studied in Industry, by
A. Barabash, N. Patrakeyev, 8 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, Moscow,
No 1, 1969, pp 134-138.
JPRS 47783

Professor Criticizes Estonian Machinery Industry,
by E. Kull', 5 pp.
RUSSIAN, np, Sovetskaya Estoniya, Tallin, 10 Jan
1969, p 2.
JPRS 47647

Progress at Tol'yatti Project Reviewed, by
S. Vinogradov, K. Vysokov, 9 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 12 Jan 1969,
p 3, 15 Jan 1969, p 3.
JPRS 47830

Minister Comments on Rural Construction Tasks,
by S. D. Khitrov, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, Moscow, 26 Jan
1969, p 1.
JPRS 47670

Special Construction Minister Outlines Goals,
by F. B. Yakubovskiy, 5 pp.
RUSSIAN, np, Stroitel'naya Gazeta, Moscow, 29
Jan 1969, p 1.
JPRS 47670

New Gas, Petroleum Pipelines Constructed, by
A. K. Kortunov, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, Moscow, 5 Feb
1969, p 1.
JPRS 47837

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Great Bendings of a Round Plate of Varying Thickness, by A. F. Smirnov. 14 pp.
RUSSIAN, rpt, Stroitel'naya Mekhanika, 1966, pp 277-285.
AIR/FTD/MT-23-650-68

Minister Criticizes Construction Industry, by I. A. Grishmanov, 13 pp.
RUSSIAN, per, Stroitel'nyye Materialy, Moscow, Jan 1969, pp 2-5.
JPRS 47741

Rural Construction Work in BSSR in Progress, by A. Ye. Balyko, V. I. Kozhar, 10 pp.
RUSSIAN, per, Stroitel'stvo i Arkhitektura, Kiev, No 1, 1969, pp 7-10.
JPRS 47902

Nomograms for Determining the Local Hydrodynamic Characteristics of Ship Hulls, by R. Ya. Pershits.
RUSSIAN, per, Sudostroyeniye, No 11, 1956, pp 4-8.
*Dept of Navy NavShips Trans No 1170

A Simplified Method of Ship Rolling Amplitude Calculation, by S. L. Karlinskiy.
RUSSIAN, per, Sudostroyeniye, No 2(363) Feb 1968, pp 11-14.
Dept of NavShips Trans No 1105

The Catamaran Crane Ship Kyor-Ogly, by V. Ye. Gubanov.
RUSSIAN, per, Sudostroyeniye, No 8, 1968, pp 3-11.
NAV/NIC/TRAN-2797(A)-69

Inrybprom-68 Around the Soviet Yards.
RUSSIAN, per, Sudostroyeniye, No 11, 1968, pp 71-87.
*Dept of Navy NIC

Technique of Designing Automation Systems, Vol 2 of 2, by K.A. Mironov, F.G. Khatsyanov, et al. 332 pp.
RUSSIAN, bk, Tekhnika Proektirovaniya Sistem Avtomatizatsii, 1966, 703 pp.
AIR/FTD/MT-23-303-68

The Heat Setting of High-bulk Nitron Yarn and Knitted Fabric, by N. A. Golovanova, A. B. Pakshver.
RUSSIAN, per, Tekstil Prom, No 6, 1968, pp 49-51.
NLL Ref: 5828.4F (7450)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Reforms Spur USSR Textile Labor Productivity, 8 pp.
RUSSIAN, rpt, Tekstil'naya Promyshlennost', Moscow, Jan 1969, pp 3-6.
JPRS 47837

Socialists Competition Spurs Automobile Industry, 6 pp.
RUSSIAN, np, Trud, Moscow, 22 Feb 1969, p 2.
JPRS 47668

Troitsk Lathe Plant Fails to Fulfill Plan, by Yu. Logachev, R. Urmansev, 6 pp.
RUSSIAN, np, Trud, Moscow, 1 Mar 1969, p 2.
JPRS 47943

The Radiation Balance of the Vertical Surfaces of a Building, by G. V. Cioenko.
RUSSIAN, per, Tr Glav Geofiz Observ, No 209, 1967, pp 94-100.
NLL Ref: 5828.4F (M.7486)

Electron-Beam Welding of Molybdenum With Niobium and Molybdenum With Stainless Steel Kh18N10T, by G. V. Terebikhin. 12 pp.
RUSSIAN, per, Trudy Leningrad. Politehnicheskii Institut, No 283, 1967, pp 157-164.
AIR/FTD/MT-24-251-68

Reduction of the Effectiveness of a Propulsion Unit as a Result of Connecting the Propeller Shroud to the Ship's Hull, by L.B. Sandler. 6 pp.
RUSSIAN, per, Trudy Novosibirsk. Institut Inzhenerov Vodnogo Transporta, No 25, 1966, pp 19-23.
AIR/FTD/MT-23-282-68

Cement Workers Set 1969 Production Goals, 5 pp.
RUSSIAN, per, Tsement, Moscow, No 1, 1969, pp 1-2.
JPRS 47670

Extrusion of Metal by Means of a Device Having Independent Container Movement, by Ya. M. Okhrimenko, V. L. Berezhniov, 9 pp.
RUSSIAN, per, Tsvetnyye Metally, No 5, 1967, pp 76-79.
AIR/FTD/MT-23-279-68

Collable Dies for the Extrusion of Metals, by A. I. Baturin. 6 pp.
RUSSIAN, per, Tsvetnyye Metally, No 5, 1967, pp 79-81.
AIR/FTD/MT-23-279-68

Methods of Governing Helicopter Gas Turbine Engines, by A. V. Mikerov.
RUSSIAN, bk, Vertoletnyye Gazoturbinnyye Dvigateli: Sbornik Statey, 1966, pp 72-89.
ACSI J-6350
FSTC-HT-23-156-69

Soviet Metallurgical Machine Building Over the Last 50 Years, by A. I. Tsolidov. 17 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 11, 1967, pp 28-34.
AIR/FTD/MT-23-1037-68

Machinery for Chemical and Petroleum Industries, by A. G. Ritskoy, 7 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, Moscow, No 1, 1969, pp 6-8.
JPRS 47668

Protection of Packing Material Against Mold Fungi During Shipment of Museum Valuables, by D. S. Kuritsyna, 11 pp.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 6, 1966, pp 76-84.
ARM/FSTC/ET-23-473-68

Water Desalination in Power, Refrigeration Complex, by K. V. Fedotov, 5 pp.
RUSSIAN, per, Vodosnabzheniye i Sanitarnaya Tekhnika, Moscow, No 1, 1969, pp 1-3.
JPRS 47832

Malpractices in Construction Industry Cited, by V. Nekrasov, 9 pp.
RUSSIAN, per, Voprosy Ekonomiki, Moscow, No 2, 1969, pp 123-128.
JPRS 47902

Hardening Frog Points by Explosive Energy, by V.I. Vlasov, A.A. Asaturov, et al. 7 pp.
RUSSIAN, per, Zheleznodorozhnyy Transport, No 1, 1968, pp 64-65.
AIR/FTD/MT-24-329-68

Meet — Aeroflot, by V. Gavrilenko, I. Chudakov. 66 pp.
RUSSIAN, bk, Znakom'stes' — Aeroflot. 1968, pp 1-48.
AIR/FTD/MT-24-254-68

An Electric Heater for a Gas Stream, by V. P. Kharitonov. 2 pp.
RUSSIAN, Patent No. 193,628, 15 Jul 1965, pp 1-2
AIR/FTD/MT-23-273-68C

Electromagnetic Pump, by G. I. Kabakov. 2 pp.
RUSSIAN, Patent No. 195,320, 25 Mar 1965, 1967, pp 1-2.
AIR/FTD/MT-23-358-68B

Plastic Travelers for Spinning and Twisting Machines.
BELGIAN, Patent No 475,412 .
NTC 69-10816-131

Industrial Design Institute Achievements Listed, by Yanka Dobrova, 6 pp.
BULGARIAN, per, Arkhitektura, Sofia, No 10, Dec 1968, pp 4-5.
JPRS 47825

20-Year Development of Energoproekt Traced, by Milko Todorov, 5 pp.
BULGARIAN, rpt, Energetika, Sofia, Nov 1968, pp 1-2.
JPRS 47579

Making Better Use of the State's Dams Stressed, by Aleksandur Marinov, 6 pp.
BULGARIAN, per, Kooperativno Zemedelie, Sofia, Jan 1969, pp 22-24.
JPRS 47882

History of Construction Union Reviewed, by M. Markov, 6 pp.
BULGARIAN, per, Stroitelstvo, Sofia, No 11, Nov 1968, pp 1-3.
JPRS 47579

Problems of Supply, Processing of Crude Oil Discussed, by E. Kudlicka, 7 pp.
CZECH, rpt, Reporter, Prague, 13 Mar 1969, pp 6-8.
JPRS 47844

Recent Developments in the Field of Process Instrumentation, by A. Delsman.
DUTCH, per, Ingenieur, Vol 78, No 29, 1966, pp 55-62.
NTC 69-1086707A

Device for Measuring the Flow of Pulverised Coal, by G. Malherbe, S. Silberberg.
FRENCH, per, Automatisme, Vol 13, No 3, 1968, pp 114-122.
NLL Ref: 9022.09 (4938)

Traffic, Modernization of Bangui Port Described,
by Ange Patasse, 6 pp.
FRENCH, rpt, Europe-France Outremer, Paris, Jan
1969, pp 41-43.
JPRS 47718

Continuously Operating Press.
FRENCH, Patent No 911,244.
NTC 69-10780-131

Design and Calculation of Apertures in Cylinders
and Spheres, by K. Wellinger, E. Krageloh,
19 pp.
GERMAN, per, Baender Bleche Rohre, Vol 9(1),
1968, pp 25-32.
AEC/ORNL/Tr-1933-69

Joint Design of Reinforced Concrete Tubbing in
Tunnel Construction, by Wilfried Krabbe, 28 pp.
GERMAN, per, Die Bautechnik, Vol 42, No 3, 1965,
pp 79-86.
AEC/ORNL/Tr-2081-69

Turbo-charged Turbines with High Compression
Ratio, by F. Kasser, M. Nauvib.
GERMAN, per, Brown Boveri Mitt, Vol 51,
No 12, 1964, pp 783-788.
NLL Ref: 3774.5 (1808)

Hans Beimler Locomotive Plant Previews its
Tasks, by Horst Mueller, 6 pp.
GERMAN, per, Deutsche Eisenbahntechnik,
East Berlin, Feb 1969, pp 55-58.
JPRS 47882

Director General Assesses Rail Vehicle Industry,
by Karl-Heinz Schulz, 5 pp.
GERMAN, per, Deutsche Eisenbahntechnik, East Berlin
Mar 1969, pp 103-104.
JPRS 47844

Experiments with T-beams of Higher Tangen-
tial Stress, by F. Leonhardt, R. Walther.
GERMAN, rpt, Deutscher Ausschuss fuer
Stahlbeton. Veroeffentlichungen, No 152,
1962, pp 1-71.
NTC 69-10982-13M

Experience Gained with New Dispersing
Machines, by T. Dooreest.
GERMAN, per, Farbe und Lack, Vol 73,
1967, pp 1103-1111.
NLL Ref: 5828.4F (M.7463)

Special Methods in Canal Construction, by
Ernst Kuntze, 19 pp.
GERMAN, per, Gas Wasser, Vol 105(20), 1964,
pp 533-539.
AEC/SC/Tr-69-1013

Dust Control During Blasting, by Heinz W. Wild,
19 pp.
GERMAN, per, Glueckauf, Vol 101, 1965, pp 706-717.
AEC/ORNL/Tr-3007-69

State of Research in the Field of Mine Ventilation,
by Eberhard Linsel, 14 pp.
GERMAN, per, Glueckauf, Vol 101, 1965, pp 1517-1521.
AEC/ORNL/Tr-3006-69

Machinery for the Mining Industry at the Bauma
1967, by K. Hofherr, 16 pp.
GERMAN, per, Glueckauf, Vol 103, 1967, pp 525-530.
AEC/ORNL/Tr-2093-69

The Waterproof Sliding Reinforced Concrete Ring
Lining of the Frozen Auguste Victoria 8 Shaft,
by Hans O. Lutgendorf, 25 pp.
GERMAN, per, Glueckauf, Vol 103(12), 1967,
pp 553-560.
AEC/ORNL/Tr-2097-69

State of Underground Automation in the German
Coal Mining Industry, by Jorn Olaf, 15 pp.
GERMAN, per, Glueckauf, Vol 103, 1967, pp 631-635.
AEC/ORNL/Tr-2096-69

The State of Application of Carbide Metal in the
German Mining Industry, by Otto Muller, 27 pp.
GERMAN, per, Glueckauf, Vol 103, 1967, pp 636-645.
AEC/ORNL/Tr-2094-69

Practical Application of the Investigation
undertaken for Technical Mining Plans, by
Guenter Dorstewitz.
GERMAN, per, Glueckauf, Vol 103, 1967, pp 663-669.
*AEC/ORNL

The Vacuum-Concrete Method and Its Application
in the Construction of Sewage Canals, by
R. H. Beyrer.
GERMAN, per, Ingenieur, Vol 79(30), 1967,
pp 51-61.
AEC/ORNL/Tr-2092-69

Better Motor to be Installed in Trabant 601 Car,
by B. Weber, 13 pp.
GERMAN, rpt, Kraftfahrzeugtechnik, East Berlin,
2 Feb 1969, pp 34-37.
JPRS 47730

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Standard-Part Steam Turbine Assembly Explained,
by P. Kamps, 10 pp.
GERMAN, per, Maschinenbautechnik, East Berlin,
Vol 18, No 2, Feb 1969, pp 58-62.
JPRS 47706

Operation of Effective Engineering Bureau Noted,
by Erika Slangon, 5 pp.
GERMAN, np, Neues Deutschland, East Berlin, 12
Feb 1969, p 3.
JPRS 47706

Gas and Dual-fuel Engines in Today's Power
Industry, by M. Leiker.
GERMAN, per, M.T.Z., Vol 28, No 12, 1967,
pp 487-492.
NLL Ref: 3774.5 (1748)

Frankfurt Leaders Blamed for Construction Lags,
by Hans Rohfeldt, 5 pp.
GERMAN, np, Neues Deutschland, East Berlin, 21
Feb 1969, p 3.
JPRS 47706

Investigation of Materials for the Construct-
tion of Gas Turbines and Exhaust Gas Turbo-
Charger, by H. Gerlach, H. R. Kautz.
GERMAN, per, M.T.Z., No 2, 1968, pp50-57,
1968.
NLL Ref: 3774.5 (1781)

Explosion-Proof Friction Brakes, by H. Wintrich,
G. H. Degener.
GERMAN, per, PTB Mitteilungen, Vol 78, No 2,
1968, pp 95-100.
NLL Ref: 8313.4 (5636)

Report on Motor Accessories at the Car
Exhibition 1967 - Pistons,
GERMAN, per, M.T.Z., Vol 29, No 2, 1968,
pp 65-66.
NLL Ref: 3774.5 (1793)

Experimental and Theoretical Observations
on the Scale Effect with Model Propeller
Experiments, by K. Meyne.
GERMAN, per, Schiffstechnik, Vol 15, No
77, 1968,
NLL Ref: 5809.95 (T.6115)

Gas Turbines in Competition with Piston
Engines, by W. T. von der Nuell.
GERMAN, per, M.T.Z., Vol 29, No 5, 1968,
pp 216-.
NLL Ref: 3774.5 (1803)

The Construction of Motors, Compressors
and Propulsion Units Utilising Welded
Joints, by H. Behnisch.
GERMAN, per, Schweisstechnik, 1968,
pp 493-496.
NLL Ref: 9022.4 (68/206)

A Contribution to a Study on the Inlet
Valve Seat Wear Pressure Charged 4 Cycle
Diesel Engines, by W. Marx, R. Muller.
GERMAN, per, M.T.Z., Vol 29, No 6, 1968,
pp 237-240.
NLL Ref: 3774.5 (1821)

AROVA System Air-Supported Roof.
GERMAN, per, Schweiz. Bauztg., Vol 83, No 35,
1965, pp 610-612.
NLL Ref: 9022.58 (314)

A Gas-Turbine Power Plant in Compact Design
as Compared with Other Gas-Turbine Designs,
by Hans-Hermann Franzke.
GERMAN, per, Motortechnische Zeit, No 10,
1968, pp 422-427.
ACSI J-6375
FSTC-HT-23-1061-68

The Application of Powder Metals in Auto-
mobile Construction, by H. G. Appel.
GERMAN, rpt, 2nd European Congress on
Powder Metallurgy, 1968, 8 pp.
NLL Ref: 9022.4 (68/188)

Steam Turbines for Nuclear Power Stations,
by W. Hossli.
GERMAN, per, Neue Technik, Vol 10, No 2,
1968, pp 65-72.
NLL Ref: 3774.5 (1801)

New Variation of Type VI Freighter Described, by
H. Krause, 12 pp.
GERMAN, per, Seewirtschaft, Leipzig, Feb 1969,
pp 104-110.
JPRS 47804

Article Details Trends in Port Freight Handling,
by G. Schefe, 11 pp.
GERMAN, per, Seewirtschaft, Leipzig, Feb 1969,
pp 128-132.
JPRS 47804

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Future of Construction Materials Industry Viewed,
by Ingo Wolf, 6 pp.
GERMAN, per, Silikattechnik, East Berlin, Feb 1969,
pp 40-41.
JPRS 47844

Alnico Alloys for Use in Electric Motors
and Generators, by H. Stablein.
GERMAN, per, Tech Mitt Krupp Werks Ber.,
Vol 26, 1968, pp 7-17.
NLL Ref: 9022.4 (68/312)

Separation of Substances in Tubes and Drums of
Steam Boilers, by H. Kirsch, et al.
GERMAN, rpt, VOB Feed Water Conference, 1967,
pp 47-53.
NLL Ref: 9091.9F (Dowrey Trans 367)

Insertion of Small Drill Vehicles for Vertical
Drilling in the Chamber Construction of the
Rammelsberg Metal Mines, by Klaus Janssen.
GERMAN, per, Z. Erzbergbau Metallhuettenw.,
Vol 19, No 1, 1966, pp 5-8.
*AEC/ORNL

Blasthole Drilling in Breaking up Rock Z, by
Heribert Riedler.
GERMAN, per, Z. Erzbergbau Metallhuettenw.,
Vol 19, No 1, 1966, pp 9-12.
*AEC/ORNL

Requirements for Industrial Explosives Created,
10 pp.
HUNGARIAN, rpt, Koho es Gepipari Kozlony, Budapest,
5 Feb 1969, pp 33-36.
JPRS 47716

Development of Aluminum Industry Reviewed, by
Vilmos Fimar, 20 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, Budapest,
Jan 1969, pp 84-94.
JPRS 47804

Science and Industrial Development Viewed, by
Gyorgy Koranyi, 6 pp.
HUNGARIAN, rpt, Magyar Tudomany, Budapest, Feb
1969, pp 90-93.
JPRS 47676

Comparison Between Cavitation Tests on
Kaplan Turbine Models and a Prototype,
by J. Chevalier.
HUNGARIAN, rpt, 2nd Conf on Hydraulic
Mechanics, 1966, Budapest, pp 35-43.
NLL Ref: 6075.461 (1957)

The Estimate of the Admission and Momentum
of the Kaplan-turbine for the Working Order
of Developed Cavitation, by A. Fay.
HUNGARIAN, rpt, 2nd Conf on Hydraulic
Mechanics, 1966, Budapest, pp 98-105.
NLL Ref: 6075.461 (1959)

A Fiat Experimental Turbine Engine of the
Differential Type, by M. Wolf.
ITALIAN, per, ATA Magazine.
ACSI J-6216
FSTC-HT-23-896-68

The Operation of a Surge Shaft in a Pumped Storage
Installation, by G. Moseda.
ITALIAN, per, Energia Elettrica, Vol 44, No 10,
1967, pp 585-594.
NLL Ref: 9022.09 (4937)

Introducing New Models FG 10-10 and FG
15-10 Forklift Trucks, by Kazuo Ota.
JAPANESE, rpt, Japanese Industrial Standard,
1968, pp 84-91.
ACSI J-6313
FSTC-HT-23-69-69

Experimental Construction of a Machine for Direct
Rolling of Molten Metal and Preliminary Studies,
by Masataka Sugiyama, Tatsuchi Fukusako et al,
11 pp.
JAPANESE, per, Nippon Kinzoku Gakkaishi, Vol 32,
No 6, 1968, pp 590-594.
AEC/ORNL/Tr-3017-69

Studies of Ice Accumulation on Ships.
Part 2, by N. Ono.
JAPANESE, per, Teion Kagaku, Ser A, No 22,
1964, pp 170-181.
NLL Ref: 8732 (NRC TT-1319)

Report of the National Mining Convention on
"Scientific and Engineering Efforts to Improve
Safety in the Mining Industry", by Jozef Wanat,
61 pp.
POLISH, per, Arch Gorn, Vol 9, No 1, 1964,
pp 129-176.
AEC/ORNL-Tr-2079-69

Hydraulic Engineering Structures in the Light
of Test With Models, by Romuald Cebertowicz.
307 pp.
POLISH, bk, Budowle Hydrotechniczne w Swietle
Doswiadczen na Modelach, 1968.
CFSTI TT 66-57043

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Scientific
Mechanical, Industrial, Civil & Marine
Engineering (Contd)

Vibrations of Conductors of Transmission Line,
by Franciszek Szymik. 12 pp.
POLISH, per, Energetyka, No 11, 1969,
pp 332-336, 337.
CPSTI TT 67-56063

Highway Traffic Analyzed by Vehicle Type, Region,
by Stjepan Djurekovic, 20 pp.
SERBO-CROATIAN, per, Nafta, Zagreb, No 2, Feb
1969, pp 75-84.
JPRS 47716

Law Covers Rural Individual Construction, 8 pp.
POLISH, rpt, Monitor Polski, Warsaw, 1 Feb 1969,
pp 41-44.
JPRS 47756

River Transportation in 1968 Discussed, by
D. S. Jovanovic, 5 pp.
SERBO-CROATIAN, per, Transport, Belgrade,
Jan 1969, pp 47-49.
JPRS 47737

Goals of Small-Scale Electromachine Industry Given,
by Mieczyslaw Hoffmann, 16 pp.
POLISH, rpt, Przegląd Drobnej Wytworczosci, Warsaw,
16-31 Jan 1969, pp 1-5.
JPRS 47706

Paper Industry Results, Plans Described, 7 pp.
SPANISH, rpt, Bohemia, Havana, 24 Jan 1969,
pp 32, 35-37.
JPRS 47576

Recent Reorganization of Ursus Plant Discussed,
by Jakub Kopec, 6 pp.
POLISH, rpt, Przegląd Techniczny, Warsaw, 9 Mar
1969, pp 1, 5.
JPRS 47844

Swedish Building Standards 67, by G. Essunger.
SWEDISH, per, Byggnastaren, No 47, March 4-10,
1968.
NLL Ref: 5196 (1429)

Lagging Expansion of Chemical Industry Viewed,
by Mirosław Kowalewski, 5 pp.
POLISH, np, Trybuna Ludu, Warsaw, 28 Feb 1969,
p 3.
JPRS/47825

Damp and Water Insulation, by M. Ronning.
SWEDISH, per, Byggnastaren, No 47, March 27-30,
1968.
NLL Ref: 5196 (1430)

Mismanagement, Theft at Industrial Sites Cited,
by Zenon Jakubowski, 9 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 23 Feb
1969, p 10.
JPRS 47766

Arrangement for Concentrating Solutions by
Freezing, 4 pp.
SWEDISH, Patent No. 102,539, Svenska Turbin-
fabriks Aktiebolaget Ljungstrom, Finspang.
Dept of Comm
Patent Office

Textile and Ready-Made Clothing Industry Surveyed,
by C. Koppich, 7 pp.
RUMANIAN, rpt, Industria Textila, Bucharest, Jan
1969, pp 9-12.
JPRS 47804

Methods & Equipment

Plans of Mechanical Engineering Industry Discussed,
by Gh. Oprea, 5 pp.
RUMANIAN, np, Scinteia, Bucharest, 25 Dec 1963,
pp 1, 7.
JPRS 47579

Redundancy in Complex Information System
Measuring Devices, by G.S. Britov,
M.B. Ignat'yev. 10 pp.
RUSSIAN, per, Avtometriya, No 5, 1965, pp 3-11.
AIR/PTD/HT-23-308-68

Development of the Railroad System, 1968-1969,
by Florian Danalache, 5 pp.
RUMANIAN, np, Scinteia, Bucharest, 16 Feb 1969,
pp 1, 5.
JPRS 47756

The Effect of the Color of the Object on
the Photogrammetric Refraction and the
Resolution of the Image, by
I. F. Kushtin.
RUSSIAN, per, Izv VUZ Geod i Aerofot,
No 5, 1966, pp 75-84.
NLL Ref: 8732 (NRC TT-1333)

A Device for Automatic Identification of the Color of Object, by V.A. Reschko, A.I. Petrenko. 13 pp.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Radioelektronika, Vol 10, No 8, 1967, pp 801-808

AIR/FTD/MT-24-349-68

Determination of Sensitivity in the Electrophotographic Process of Preparing Line Images, by A. B. Diavin.

RUSSIAN, per, Nauch Tekh Informats, No 11, 1964, pp 41-44.

NLL Ref: 5828.4F (12968)

The Inclusion of Tensio-Sensitive Lattice of an Attached Sensor During the Deformation of an Element Under Investigation, by A. I. Makeyev. 10 pp.

RUSSIAN, per, Samoletostroyeniye i Tekhnika Vozdushnogo Flota, No 8, 1966, pp 114-120.

AIR/FTD/MT-23-659-68

The Use of Phenidone in the Film Printing Industry, by S. Ye. Tikhonovich.

RUSSIAN, per, Tekh Kino i Televid, No 8, 1962, pp 40-46.

NLL Ref: 5207 (1299)

Characteristics Curves of Motion Picture and Photographic Materials and General Sensitometric Parameters, by G. S. Baranov, Ye. I. Klyuyenkova.

RUSSIAN, per, Tekh Kino i Televid, Vol 10, No 12, 1966, pp 3-11.

NLL Ref: 5828.4F (12991)

Investigation of the Shape of Characteristic Curves of Motion Picture and Photographic Materials, by G. S. Baranov, Ye. I. Klyuyenkova.

RUSSIAN, per, Tekh Kino i Televid, Vol 11, No 5, 1967, pp 61-65.

NLL Ref: 5828.4F (12990)

Direct Method of Determining the Sensitivity of Microcrystals to Charge Particles, by A.P. Zhdanov, I. M. Kuks. 7 pp.

RUSSIAN, per, Uspekhi Nauchnoy Fotografii, Vol 12, 1966, pp 49-52.

AIR/FTD/MT-24-347-68

Dependence of the Duration and the Rate of Development of Black-and-white Photographic Image Upon the pH Value, by P. I. Levina.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 161-165.

NLL Ref: 5828.4F (12989)

Reciprocity in Electrophotography, by S. G. Grenishin.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 179-186.

NLL Ref: 5828.4F (12987)

Investigation of the Natural Aging of Photographic Emulsions, by A. L. Kartuzhanskiy, A. F. Yurchenko.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 187-196.

NLL Ref: 5828.4F (12986)

Investigation of the Fog-forming Process, by B. G. Varshaver, K. V. Chibisov.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 196-207.

NLL Ref: 5828.4F (12985)

Investigation of the Mechanism of the Polyethylene Glycol Effect in Photographic Emulsions and Developers, by V. I. Sheverstov.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 207-216.

NLL Ref: 5828.4F (12984)

The Possibility of Improving the Signal-to-noise Ratio of Photographic Image, by M. A. Aingorn.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 255-263.

NLL Ref: 5828.4F (12995)

Photo-Observation Device of Great Magnification, by I. A. Tel'tevskiy, I. A. Chernyy. 9 pp.

RUSSIAN, per, Zhurnal Nauchnoy i Prikladnoy Fotografii i Kinematografii, Vol 12, No 4, 1967, pp 274-279.

AIR/FTD/MT-23-341-68

Measurement of Granularity on Rotating Samples of Photographic Materials, by I. G. Minkevich, K. V. Vendrovskiy.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 427-431.

NLL Ref: 5828.4F (13011)

Experimental Investigation of the Frequency Characteristics of the Transfer of Dye on Blank Film, without Fixer, by A. I. Veitman.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 451-456.

NLL Ref: 5828.4F (13007)

Effect of Some Phenyl Derivatives of the Elements of the V Group of Periodic Table on the Photographic Properties of Sensitized Emulsions, by M. A. Akhmedzyanov. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 462-463. NLL Ref: 5828.4F (13004)

Mechanism of Dyeing Gelatin Layers, by G. V. Velichko. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 39-43. NLL Ref: 5828.4F (12966)

Electron-Acceptor Capacity and Photographic Properties of Some Thia-tricarboyanine Dyes, by A. S. Kheinman. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 44-46. NLL Ref: 5828.4F (12963)

Effect of Polyethylene Glycol on the Redox Potential of the Fe^{2+}/Fe^{3+} Developing System, by V. I. Sheberstov, T. G. Ovechkina. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 47-48. NLL Ref: 5828.4F (12964)

Photographic Identity of Separate Emulsion Grains, by I. M. Kuks. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 50-51. NLL Ref: 5828.4F (12977)

Resolving Power of High Resolution Photographic Materials, by P. Kh. Pruss. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 52-54. NLL Ref: 5828.4F (12978)

Reactions of Photographic Gelatin with Polymer Coagulation, by N. A. Petrova. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 2, 1968, pp 86-88. NLL Ref: 5828.4F (12973)

Color Separation Characteristics of Psychologically (subjectively) Accurate four-color Images, by L. F. Artyushin. RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 2, 1968, pp 113-119. NLL Ref: 5828.4F (12970)

Effect of Chemical Ripening on the Photoelectromotive Force of Emulsion Layers, RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 2, 1968, pp 128-130. NLL Ref: 5828.4F (12971)

An Axisymmetric Profiled Nozzle for Aerodynamic Devices, by K.V. Chashchin-Semenov, V. G. Grigor'yev, et al. 3 pp. RUSSIAN, Patent No. 186,167, 22 Aug 1964, pp 1-2. AIR/FTD/FT-23-30-68

Method for the Preparation of a Processing Composition. DUTCH, Patent No 65-05 117. NTC 69-10755-14E

The Use of Semiconductor Strain-Gauges for Measurement in Hot-shot wind Tunnels, by J. M. Darmon, A. Devacht. FRENCH, per, Recherche Aerospatiale, No 120, 1967, pp 43-49. NLL Ref: 5809.95 (T.6084)

Process for Obtaining Photographic Images in Natural Colors Based on the Principle of the Trichrome Method, by S. Papadakis. FRENCH, Patent No 908,295. NTC 69-10781-14E

Photographic Products Based on Cyclopentadienyl Compounds and New Compounds Used for Their Production, by J.-P. Camille, G. Dubose. FRENCH, patent No 1,361,470. NTC 69-10764-14E

Improvements in Processes and Devices for Recording Information. FRENCH, Patent No 1,384,957. NTC 69-10756-14E

Application and Cost of Different Kinds of Handling Equipment in Lignite Mines, by Hans Bartholmai. GERMAN, per, Foedern Heben, Vol 17, No 14, 1967, pp 807-812. *AEC-ORNL

Zeiss Amplival Microscope Described, by L. Otto, 6 pp. GERMAN, per, Zeitsch. ft fuer Medizinische Labortechnik, East Berlin, No 6, 1968, pp 333-341. JPRS 47766

The Mechanism of Photographic Desensitization, by S. Daelne.
GERMAN, per, Zeit fur Wissen Photographie,
Photophysik und Photochemie, Vol 59,
No 4/12, 1965, pp 113-173.
NTC 69-10886-14E

Electrophotographic Platr for the Production of Halftone Images, by C. Hesse, W. Werner.
GERMAN, Patent No 1,229,846.
NTC 69-10757-14E

Process for the Preparation of Offset Printing Plates from Aluminium or Aluminium Alloys, by K. Jestl.
GERMAN, Patent No 1,238,049.
NTC 69-10973-14E

Navigation, Communications, Detection & Countermeasures

Navigation and Communications Equipment, by A. I. Strumpe.
RUSSIAN, per, No 91, 1968, pp 21-41.
*Dept of Navy NIC

Pulse-Phased Radio Navigation System Loran-C, by B. I. Bykow.
RUSSIAN, rpt, IR 5901018968.
*Dept of Navy NIC

Effectiveness of Applying Radio Relay Systems in Railroad Transportation, by A. I. Dzygalo.
N. Ye. Dotsenko, 6 pp.
RUSSIAN, per, Avtomatika, Telemekhanika i Svyaz,
Moscow, 1969, No 2, pp 9-11.
JPRS 47837

New Long-Distance Communications Cables, by V. V. Gavriluk, A. N. Malochinskaya, 7 pp.
RUSSIAN, per, Avtomatika, Telemekhanika i Svyaz,
Moscow, No 2, 1969, pp 12-14.
JPRS 47837

The Deviations of Marine Radars, by S. M. Latinskiy, 128 pp.
RUSSIAN, bk, Deviatsiya Sudovyykh Radiolokatsionnykh Stantsiy, 1966, pp 1-159.
AIR/FTD/MT-23-1671-67

The Optimum Shape of Noncoherent Radar Pulse Signals, by V. S. Trumov, 5 pp.
RUSSIAN, rpt, Doklady Vsesoyuznaya Nauchnaya Sessiya Poveyashchennaya Dryu Radio, 22nd, 1966, Sektziya Obshchey Radiotekhniki, 1966, pp 48-52.
AIR/FTD/MT-23-314-68

The Merchant Shipping Code of the USSR, RUSSIAN, per, Gazette of the Supreme Soviet of the USSR, No 39 (1437), 25 Spt 1968, 136 pp.
NAV/NIC/TRAN-2800-69

The Effect of Dry Friction on the Motion of a Gyroscope With Forced Rotation of the Cardan Suspension, by V. A. Yablonskaya, 6 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Priborstroyeniya, Vol 10, No 9, 1967, pp 80-83.
AIR/FTD/MT-23-448-68

Experimental Studies of the UTR-1 Radio Telescope's Multielement Antenna Arrays, by Yu. M. Burk, N. Yu. Goncharov, et al., 23 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Radiofizika, Vol 11, No 1, 1968, pp 28-43.
AIR/FTD/MT-24-255-68

Coding and Interference Stability in the Transmission of Telemechanical Information, by G. A. Shastova, 379 pp.
RUSSIAN, bk, Kodirovaniye i Pomakhoustoychivost' Peredachi Telemekhanicheskoy Informatsii, 1966, pp 1-455.
AIR/FTD/MT-23-1641-67

Means of Navigation of Nuclear-Powered Submarines, by D. I. Kholostov, 139 pp.
RUSSIAN, bk, Sredstva Korablevozhdeniya Podvodnykh Atomnykh Sudov, 1967, pp 75-211.
NAV/NOO Contract tr 15

Improvement in Telephones, 11 pp.
FRENCH, Patent No. 740,836.
Dept of Comm
Patent Office

Investigations to Reduce Network Disturbances Caused by Electric Arc Furnaces, by K. Kegel.
GERMAN, per, Elektrowarme, Vol 25, No 6, June 1967, pp 203-308.
BISI 6172

An Electronic Short-Distance Range Finder
A Review of the State of Development, by
L. Hallermann.
GERMAN, per, Zeit fur Vermessungswesen,
1968, pp 439-445.
ACSI J-6352
FSTC-HT-23-062-69

1971-1975 Telecommunications Plans Outlined, by
Zygmunt Zonik, 7 pp.
POLISH, np, Zycie Gospodarcze, Warsaw, 16 Feb
1969, p 3.
JPRS 47766

Telephone Communication Network Discussed, by
Nedjeljko Popara, 7 pp.
SERBO-CROATIAN, per, Komuna, Belgrade, No 12,
Dec 1968, pp 16-19.
JPRS 47766

Growth of Yugoslav Radio, Television Illustrated,
by I. P. 5 pp.
SERBO-CROATIAN, per, Nasa Stampa, Belgrade, No 164,
Feb 1969, p 4.
JPRS 47937

Post, Telegraph, and Telephone, 1969-1975, by
A. Zmijarevic, 11 pp.
SERBO-CROATIAN, per, Transport, Belgrade, Feb
1969, pp 51-54.
JPRS 47937

Nuclear Sciences & Technology

Isotopes in Industry, by Ye. Ye. Kulish,
A. S. Shtan', 10 pp.
RUSSIAN, per, Atomnaya Energiya, Moscow,
No 2, 1969, pp 122-127.
JPRS 47922

Radioisotope Thermoelectric Generators, by
G. M. Fradkin, V. M. Kodyukov, 12 pp.
RUSSIAN, per, Atomnaya Energiya, Moscow,
Vol 26, No 2, Feb 1969, pp 169-175.
JPRS 47922

Biological Action of High-Energy Protons, by
Yu. G. Grigor'yeva. Vol 1 of 2. 642 pp.
RUSSIAN, bk, Biologicheskoye Deystviye Protonov
Vysokikh Energiy, 1967, pp 1-508.
AIR/FTD/MT-24-150-68

Biological Action of High-Energy Protons, by
Yu. G. Grigor'yeva. Vol 2 of 2. 642 pp.
RUSSIAN, bk, Biologicheskoye Deystviye Protonov
Vysokikh Energiy, 1967, pp 322-642.
AIR/FTD/MT-24-150-68

Super-high-frequency and Infrared Radia-
tion Modulator, Class 21, by
Yu. K. Pozhela.
RUSSIAN, per, Byulletin Izobreteniy i
Tovarnykh Znajow, No 20, Oct 1965, p 30.
ACSI J-6324
FSTC-HT-23-194-68

Regeneration Process of $K_L^0 \rightarrow K_S^0$ at High Energy,
by Ye. Okonov, 8 pp.
RUSSIAN, rpt, JINR P1-3788, 1966.
AEC/BNL/Tr-243-68

Investigation of Electron-Photon Showers induced
by Gamma-Quanta at 100, 200, 500 and 2000 MEV in
Liquid Xenon, by B. Slovinskiy.
RUSSIAN, rpt, JINR-P1-3919, 1968, pp 1-19.
*AEC/ORNL-Tr-3022

Small Scale Reactor Shielding, by
D. L. Broder.
RUSSIAN, bk, Malogabaritnaya Zashchita
Reaktorov, 1967, pp 3-365.
ACSI J-6001
FSTC-HT-23-400-68

Atomic Energy and its Role in Technological
Progress, by A. P. Aleksandrov, 26 pp.
RUSSIAN, per, Priroda, Moscow, Jan 1969,
pp 14-24.
JPRS 47806

New Sources and Methods for Obtaining
Electric Power, by M. D. Millionshchikov,
16 pp.
RUSSIAN, per, Priroda, Moscow, Jan 1969,
pp 25-32.
JPRS 47806

USSR Power Resources, by A. N. Voznesenskiy,
Ya. S. Zenkis et al, 22 pp.
RUSSIAN, paper No 33, 7th World Power Conference,
Moscow, 20-24 Aug 1968.
AEC-Tr-6996

Rules for Predicting Fires After Nuclear Strike,
by N. Tarasov-Agalakov, 7 pp.
RUSSIAN, rpt, Voennoye Znaniya, Moscow, Feb 1969,
pp 28-29.
JPRS 47831

Processing of Nuclear Emulsions with a Magneto-strictive Ultrasonic Transducers, by A. S. Akopova.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 266-271.
NLL Ref: 5828.4F (12993)

Equilibrium Optical Density Formed when the Latent Photographic Image is Exposed to Long Wavelength Radiant Energy, by V. N. Zaitsev, R. I. Kazantsev.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 431-436.
NLL Ref: 5828.4F (13010)

Advances in Power, Atomic Energy (outlined, by Konstantin Popov, 5 pp.
BULGARIAN, per, Voenna Tekhnika, Sofia, Feb 1969, pp 8-9.
JPRS 47844

Corrosion Problems of Carbon Dioxide-Cooled Power Reactors, by V. Rypar, 39 pp.
CZECH, per, Jad Energ, No 6, 1969, pp 192-199.
AEC/UCRL/Tr-10326-69

Contribution to the Study of the System (U,Pu) C, N, by Robert Lorenzelli, 71 pp.
FRENCH, rpt, CEA-R-3536, May 1968, pp 1-58.
AEC/ORNL/Tr-3019-69

Programs and Economy of European Fast Reactors, by D. R. Berridge, 12 pp.
FRENCH, per, Energ Nucl, No 9, 1967, pp 275-278.
AEC/ORNL/Tr-1784

Electron Microscope Observations on Thin Films of Zirconium Oxide, Obtained by Oxidation of Zirconium, by G. Beranger, F. Duffaut, 21 pp.
FRENCH, per, J. Nucl. Mater, Vol 19, 1966.
AEC/WAPD/Tr-109-69

Contribution to the Economic Study of Multipurpose Plants: Power Production, Desalination of Sea Water and Chemical Industries, by R. Douvry, P. E. Dorges, 17 pp.
FRENCH, rpt, Symposium in Nuclear Desalination, IAEA, SM-113/22, Nov 1968.
AEC/ORNL/Tr-2078-69

The Pneumatic Handling of P.F. Ash at the Blenodles-Pont-a-Mousson Power Station, by B. Huglo.
FRENCH, per, Technique Moderne, Vol 59, 1967, pp 431-433.
NLL Ref: 9022.09 (4926)

Determination of the Radiation Fields in Reactor Shielding from Measurement on a Limited Parallel Beam, part 2, by G. Thuro.

GERMAN, per, Atomkernenergie, Vol 12, No 11/12, 1967, pp 409-414.
NLL Ref: 5828.4F (M.13033)

The Radiological Protection Problems of Tritium, by E. Dietrich, L. A. Konig.
GERMAN, per, Atompraxis, Vol 13, No 10, 1967, pp 454-457.
NLL Ref: 5828.4F (M.13024)

The Multi-Purpose Research Reactor MZFR, by J. Brandl, 8 pp.
GERMAN, per, Atomwirtschaft, No 8, 1963, pp 257-259.
AEC/NP-Tr-1730-67

The Wurgassen 670 MW Nuclear Power Station with AEG Boiling Water Reactor, by W. K. Ringels.
GERMAN, per, Atomwirtschaft, No 1, 1968, pp 40-49.
NLL Ref: 3774.5 (1787)

Reaction Rate of Atomic Hydrogen with Acetelyne, Part I, by K. Hoyeremann.
GERMAN, per, Berichte der Bunsengesellschaft, Vol 72, No 8, 1968, pp 1004-1008.
*Dept of Navy APL/JHU J-1287

Fundamentals and Construction of the First Nuclear Power Plant with Direct Cycle Gas Turbine, by C. Keller, 12 pp.
GERMAN, per, Brennst-Waerme-Kraft, Vol 20, No 6, 1968, pp 257-259.
AEC/WAPD/Tr-113

A Fast Neutron Flight Time Spectrometer With a Pulsed Neutron Source, by D. Seeliger, H. Pose.
7 pp.
GERMAN, per, Kernenergie, Vol 10, No 12, 1967, pp 366-368.
AEC/PTD/MT-23-457-68

On the Possibility of Isotope Separation of Intermediate and Heavy Elements Through Chemical Exchange, by D. A. Knyazev, A. A. Ivlev, et al, 21 pp.
GERMAN, per, Kernenergie, No 11, 1968, pp 229-238.
AEC/ORNL/Tr-2100-69

Duties of Radiation Protection Center Detailed, by H. Schoel, 19 pp.
 GERMANY, rpt, Kernenergie, East Berlin, Jan 1969, pp 25-34.
 JPRS 47841

Parity Violation by Nuclear Forces, by Hermann Waeffler, 15 pp.
 GERMAN, per, Naturwissenschaften, Vol 55, No 6, 1968, pp 255-261.
 AEC-NAL-Tr-698

The Production and Properties of Reactor Fuels, by W. Ermischer, 17 pp.
 GERMAN, per, Neue Hütte, No 8, 1967, pp 486-491.
 AIR/FTD/HT-23-646-68

First National Symposium on Nuclear Chemistry, Feb. 10-12, 1964, Warsaw. 464 pp.
 POLISH, rpt, I Krajowe Sympozjum Chemii Jadrowej, 10-12 Luty 1964, Warszawa.
 *CRSII TT 68-50015
 UC-4
 AEC-tr-7035 (amended number)

Second Nuclear Power Plant Contemplated, 8 pp.
 SPANISH, rpt, Clarín, Buenos Aires, 16 Feb 1969, pp 8-9, 15.
 JPRS 47705

Physics

Effect of Perturbations on the Magnetic Field in a Stellarator, by A. V. Komin.
 RUSSIAN, rpt, Novosibirsk, 1968, 22pp.
 NLL Ref: 9091.9F (CIC/541)

A region of Electron Containment in the Plasma in a Magnetic Mirror Trap in Electron Cyclotron Resonance Conditions, by B. V. Galaktionov, et al.
 RUSSIAN, rpt, A. F. Ioffe Inst Rpt 078, 1968, 9 pp
 NLL Ref: 9091.9F (CIC/519)

Aerogas dynamics (A Concise Textbook), by I. P. Ginzburg. 369 pp.
 RUSSIAN, bk, Aerogazodinamika (Kratkiy Kurs), 1966, pp 1-404.
 AIR/FTD/HT-23-490-68

Impact of a Body on a Plate Resting on an Elastic Base, by Ye. F. Afanas'yev. 10 pp.
 RUSSIAN, rpt, AN AZERBSSR. Im. Vsesoyuznyy Simpozium po Rasprostraneniyu Uprugo-Plasticheskikh Voln v Sploshnykh Sredakh. Baku, 1964. Materialy, 1966, pp 149-158.
 AIR/FTD/HT-23-445-68

Mass and Energy Distributions of Photofission Fragments of ^{238}U , ^{209}Bi and ^{197}Au Nuclei, by B. A. Bozhagov, A. P. Komar et al, 20 pp.
 RUSSIAN, preprint 123, Ak Nauk SSSR, Fiz-Tech Inst im A. F. Ioffe, 1968
 AEC/UCRL-Tr-1383-68

Measuring the Velocity of a Shock Wave, by M.K. Berezkina, B.M. Dobrynin, et al. 18 pp.
 RUSSIAN, rpt, AN SSSR. Fiziko-Tekhnicheskii Institut. Aerofizicheskoye Issledovaniya Sverkhzvukovykh Tsecheniy, 1967, pp 54-65.
 AIR/FTD/HT-23-340-68

Measurement of Electrical Conductivity in a Shock Tube by an Induction Method, by K.V. Donskoy, R.V. Vasil'yeva. 6 pp.
 RUSSIAN, rpt, AN SSSR. Fiziko-Tekhnicheskii Institut. Aerofizicheskoye Issledovaniya Sverkhzvukovykh Tsecheniy, 1967, pp 117-120.
 AIR/FTD/HT-23-340-68

The Unidimensional Problem of Thermal Stresses in Elasto-Plastic Media, by V. A. Lomakin.
 RUSSIAN, per, Akademiya Nauk SSSR, Inst Mekhaniki. Inzhenernyy Sbornik, Vol 25. 1959, pp 174-178.
 NTC 69-10941-20K

Certain Peculiarities of the Raman Spectra of Adsorbed Molecules, by Ye. V. Pershina, Sh. Sh. Raskin. 15 pp.
 RUSSIAN, per, AN SSSR. Otdeleniye Fiziko-Matematicheskikh Nauk. Optika i Spektroskopiya. Sbornik Statey, Vol 3, 1967, pp 328-337.
 AIR/FTD/HT-23-405-68

Temperature Diffusivity and Thermal Conductivity of Metals at High Temperatures, by O. A. Krayev, A. A. Stel'makh. 21 pp.
 RUSSIAN, rpt, AN SSSR. Sibirskoye Otdeleniye. Issledovaniya pri Vysokikh Temperaturakh, 1966, pp 55-74.
 AIR/FTD/HT-24-290-68

X-Ray Determination of Elastic Constants E and ν , by M. M. Shved. 9 pp.
 RUSSIAN, rpt, AN UkrSSR. Institut Mashinovedeniya i Avtomatiki Voprosy Mekhaniki Real'nogo Tverdogo Tela Kiev, 1964, pp 128-135.
 AIR/FTD/HT-23-1137-68

Growing of Single Crystals of Silicon Carbide of Cubic Modification, by M.S. Saidov, Kh. A. Shamuratov. 6 pp.
 RUSSIAN, rpt, AN UZSSR. Fiziko-Tekhnicheskii Institut. Fizicheskiye Svoystva Osobo Chistyykh Metallov i Poluprovodnikov. 1966, pp 13-17.
 AIR/FTD/HT-23-407-68

Influence of Annealing of Silicon in Antimony Vapor on the Density of Linear Dislocations, by M. S. Daidov, I. Shumakov. 4 pp.
RUSSIAN, rpt, AN UZSSR, Fiziko-Tekhnicheskiy Institut, Fizicheskiye Svoystva Otdo Chistykh Metallov i Poluprovodnikov, 1966, pp 39-41.
AIR/FTD/MT-23-407-68

Plasma Heating by Magneto-Acoustic Waves, by I. A. Kovan.
RUSSIAN, per, Atomnaya Energiya, Vol 25, No 6, 1968, pp 503-506.
Sci & Tech Info Facility
ST-PP-MAW-10825

Time of Establishment of Equilibrium Concentration of Vacancies, by B. S. Bokstein.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 183, No 6, pp 1280-1282.
*APCRL

Dispersion Correction in the Debye Theory of Heat Capacity of a Solid, by N. S. Adkhanova. 7 pp.
RUSSIAN, per, Doklady AN TadzhSSR, Vol 9, No 1, 1966, pp 13-17.
AIR/FTD/MT-23-957-68

Theory of Double Layer Cylindrical Shell Made of Glass-Fiber Reinforced Plastic, by O. A. Karpova.
RUSSIAN, per, Dopovodi AN UkrSSR, Seriya A, Fiziko-Tekh i Mat Nauki, No 12, 1967, pp 1101-1107.
NTC 69-10791-20K

Application of Potential Theory Methods to the Study of Stress Concentration Near Holes in Shells, by G. M. Savin, S. P. Gavelya. 6 pp.
RUSSIAN, per, Dopovodi. AN UkrSSR, Seriya A, Fiziko-Tekhnichni ta Matematichni Nauky, No 4, 1968, pp 352-356.
AIR/FTD/MT-23-758-68

Experimental Investigation of Electrical Conductivity of Products of Combustion, Stimulated by Solid Particles, by Ye. P. Zimin, V.A. Popov. 17 pp.
RUSSIAN, rpt, Ekspierimental'noye Issledovaniye Elektroprovodnosti Produktov Sgoraniya, Stimulirovannoy Tsvedym Chastitsami SM-107-154, pp 1-14.
AIR/FTD/MT-24-183-68

Experimental Investigation of the Influence of Boundary Layers and Certain Other Effects on the Characteristics of an MHD-Generator, by A. Ye. Sheyndlin, B. Ya. Shmyatkiy, et al. 25 pp.
RUSSIAN, rpt, Ekspierimental'noye Issledovaniye Vliyaniya Pogranichnykh Sloev i Nekotorykh Drugikh Effektiv na Kharakteristiki MHD-Generators, pp 1-31.
AIR/FTD/MT-24-177-68

Recording Shock Waves and Exploding Wire Electrical Characteristics, by Yu. A. Kotov, M. A. Mel'nikov. 9 pp.
RUSSIAN, per, Elektronnaya Obrabotka Materialov, No 3, 1966, pp 28-32.
AIR/FTD/MT-24-184-68

Thermal Stresses in Composite Pipe Joints, by V. L. Ingul'tsov, V. M. Mostoslavskaya.
RUSSIAN, per, Energomashinostroyeniye, Vol 11, No 11, 1965, pp 10-12.
NLL Ref: 9022.03 (4275)

Physical Processes in Electrophotographic Layers of Zinc Oxide, by V.I. Gaydalis, N.N. Markevich, et al.
RUSSIAN, bk, Fizicheskie Protssesy v Elektro-fotograficheskikh Sloyakh ZnO, 1968.
CONSULTANTS BUREAU/PLENUM PRESS

Role of the Leading Shock Wave in the Spread of Slow-Speed Detonation in Liquid Nitroglycerin Charges, by A. V. Dubovik, et al.
RUSSIAN, per, Fiz. Goren. i Vzryv., No 4, 1966, pp 105-110.
NLL Ref: 5828.4F (M.7479)

Detonation of Liquid Explosive Mixtures at Lowered Temperatures, by V. A. Letagin, V. S. Solovov.
RUSSIAN, per, Fiz. Goren. i Vzryv., No 3, 1967, pp 393-397.
NLL Ref: 5828.4F (M.7480)

X-Ray Analysis of the Dimensions of Blocks in Cast Monocrystals of Aluminium, by D. Ye. Ovisenko, Ye. I. Sosnina.
RUSSIAN, per, Fiz Metal i Metalloy, Vol 3, No 3, 1956, pp 516-526.
NLL Ref: 8732 (NRC TT-1330)

Toward a Theory of Nuclear Magnetic Resonance in Ferromagnetics With Low Magnetic-Nucleus Concentrations, I, by Ye. A. Turov, M.I. Kurkin, et al. 12 pp.
RUSSIAN, per, Fizika Metallov i Metallovedeniye, Vol 23, No 5, 1967, pp 786-795.
AIR/FTD/MT-23-390-68

On the Recrystallization of High-Coercivity Alnico and Ticonal Alloys, by G. I. Nikolayeva.
RUSSIAN, per, Fiz Metal Metalloy, Vol 24, No 6, 1967, pp 1127-1129.
NLL Ref: 9022.4 (68/227)

Transformation of the Electrical Field at Propagation of Acoustic Waves and Their Transition into Plasma Waves, by Yu. M. Nikolayev.
RUSSIAN, per, Geomagnetizm i Aeronomiya, Vol 8, No 6, 1968, pp 1031-1038.
NAS/GSFC/ST-WP-A1-10787

Energy Method for Studying the Transition from Laminar Flow to Turbulent Flow, by A. M. Shabin.
RUSSIAN, bk, High Velocity Hydrodynamics, No 5, 1968, pp 165-171.
NASA TT F-12,129

The Liquid-Vapor Equilibrium in an Ethane-Ethylene System, by F. F. Kharakhonin.
RUSSIAN, per, Inzhenerno-Fiz Zhurnal, Vol 2, No 8, 1959, pp 72-77.
NTC 69-10897-07D

Heating of a Cylinder with Internal Heat Generation and Variable Heating Transfer Coefficient, by Yu. V. Budin, 6 pp.
RUSSIAN, per, Inzh Fiz Zh, No 11, 1966, pp 166-170.
AEC/Tr-6969-69

Contributions to the Solution of Nonstationary Heat-Conduction Problems on Electrical Models, by M. M. M. Ivanshchenko, M. S. Zolotogorov, 6 pp.
RUSSIAN, per, Inzh Fiz Zh No 11, 1966, pp 225-229.
AEC-Tr-6970-69

Thermal Conductivity During the External Cooling of Gas Turbine Rotor Blades, by A. A. Levin, 10 pp.
RUSSIAN, per, Inzhenerno Fizicheskoy Zhurnal, Vol 13, No 2, 1967, pp 236-242.
AIR/FTD/MT-23-1051-68

Thermal Conductivity of Fibrous Systems, by G. N. Dul'nev, B. L. Muratova.
RUSSIAN, per, Inzh Fiz Zh, Vol 14, No 1, 1968, pp 29-35.
NLL Ref: 3774.5 (1790)

Measurement of Temperature of Plasma in MHD-Generators and in Combustion Chambers by the Method of Recording the Absolute Intensities of Spectral Lines, by S. Suchowar, 18 pp.
RUSSIAN, rpt, Izmereniya Temperatury Plazmy v MHD-Generatorakh i v Kamerekh Sgoraniya Metodom Registratsii Absolyutnykh Intensivnostey Spektral'nykh Linii St-107/94, pp 1-20.
AIR/FTD/MT-24-179-68

Asymmetric Vibrations of a Cylindrical Shell in a Magnetic Field, by G.Ye. Bogdasaryan, M. V. Belubekyan, 8 pp.
RUSSIAN, per, Izvestiya AN AZESR Mekhanika, Vol 20, No 5, 1967, pp 21-27.
AIR/FTD/MT-23-1084-68

Theory of Decreasing the Absorbance/Transmittance Ratio of Fabry-Perot-Type Light Filter, by P. Kard.
RUSSIAN, per, Izv AN est Ser Fiz Mat i Tekh Nauk, No 3, 1962, pp 159-166.
NLL Ref: 5828.4F (12974)

Supersonic Flow Around a Jet-Type Gaseous Obstacle on a Plate, by A. I. Glagolev, A. I. Zubkov, et al. 9 pp.
RUSSIAN, per, Izvestiya AN SSSR Mekhanika Zhidkosti i Gaza, No 3, 1967, pp 97-102.
AIR/FTD/MT-24-381-67

Application of Method of Straight Lines to Analysis of Flow Past Conic Bodies at Large Angles of Attack, by A. P. Bazzhin, I. F. Chelysheva, 8 pp.
RUSSIAN, per, Izvestiya AN SSSR Mekhanika Zhidkosti i Gaza, No 3, 1967, pp 119-123.
AIR/FTD/MT-24-381-67

Analysis of Three-Dimensional Flow Past Blunted Cones by the Method of Characteristics With Allowance for Balanced Physicochemical Transformations, by K. M. Magomedov, 12 pp.
RUSSIAN, per, Izvestiya AN SSSR Mekhanika Zhidkosti i Gaza, No 3, 1967, pp 130-137.
AIR/FTD/MT-24-381-67

Dynamics of a Fluid in a Conical Tank During the Transition from Small to Appreciable Gravity, by V. M. Shashin.
RUSSIAN, per, Izv AN SSSR Mekhanika Zhidkosti i Gaza, Nov-Dec 1968, pp 74-79.
*NASA TT F-12,343

Investigation of the Phases in Semiconductor Systems of the $A_1^{VI} - B_1^{III} - B_2^{III} - C_1^{VI}$ type, by L. S. Palatnik, Ye. K. Belova.
RUSSIAN, per, Izv AN SSSR Neorg Mat, Vol 3, No 12, 1967, pp 2194-2202.
NLL Ref: 8036.625 (209)

On a Method for Solving Problems of Electromagnetic Wave Propagation Over the Earth's Surface, by M. Leontovich. RUSSIAN, per, Izv AN SSSR, Ser Fiz, Vol 8, No 1, 1944, pp 16-22.
Dept of Navy APL/JHU T-2712

The Spectroscopic Determination of Carbon in Steels and Irons, by V. P. Borzov. RUSSIAN, per, Izv AN SSSR, Ser Fiz, Vol 14, No 5, 1950, pp 611-618.
NLL Ref: 5828.4F (7444)

Formation of Dihydroxydifluoride From Elements in a Glow Discharge, by I.V. Nikitin, V. Ya. Rosolovskiy. 6 pp.
RUSSIAN, per, Izvestiya AN SSSR, Seriya Khimicheskaya, No 2, 1968, pp 266-269,
AIR/FTD/MT-23-467-68

Certain Results of Investigation of an Automatic Current Stabilization System for Electric-arc Gas Heaters, by A. M. Kruchinin. 13 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 15-23.
AIR/FTD/MT-24-219-68

Generalized Characteristics of a Sectional Electric-arc Gas Heater With Vortex-Stabilized Electrical Arc, by G.P. Stel'makh, N.A. Chesnokov, et al. 4 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 45-46.
AIR/FTD/MT-24-219-68

Regulation of Arc Voltage in a Two-Chamber Plasmatron by Changing the Gas Flow Ratio Through Vortex Chambers, by A.D. Lebedev, G. I. Mortseva, et al. 8 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 60-64.
AIR/FTD/MT-24-219-68

Comparative Characteristics of Two-Chamber and Bilateral Plasmatrons, by V. G. Antipov, A. D. Lebedev, et al. 8 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 65-69.
AIR/FTD/MT-24-219-68

Theoretical and Experimental Investigations of Volt-Ampere Characteristics of Lithium Plasma Sources, by G. N. Mironov. 11 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 91-97.
AIR/FTD/MT-24-219-68

Investigation of Arc Electrode Heating in a Working Plasma, by A. Ye. Kononov. 5 pp.
RUSSIAN, per, Izvestiya AN SSSR, Sibirskoye Otdeleniye, Seriya Tekhnicheskikh Nauk, No 1, 1967, pp 135-138.
AIR/FTD/MT-24-219-68

Hypersonic Gas Flow Around Conical Bodies, by N. M. Monakhov.
RUSSIAN, per, Izv VUZ Aviats Tekh, No 1, 1966, pp 3-15.
Dept of Navy APL/JHU T-2256

Calculation of Laminar Friction and Heat Release Characteristics of High-Temperature Gas, by I. I. Suksov.
RUSSIAN, per, Izv VUZ Aviats Tekh, No 3, 1966, pp 23-33.
Dept of Navy APL/JHU T-2261

Optimal Stabilization of Couette Flow, by T. K. Sirazetdinov. 8 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya Tekhnika, No 4, 1966, pp 23-28.
AIR/FTD/MT-23-919-68

Stability of an Anisotropic Circular Cylindrical Shell Under Compression and Internal Pressure, by V. V. Kabanov. 11 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya Tekhnika, No 1, 1967, pp 37-44.
AIR/FTD/MT-24-210-68

Thermal Operation of Additional Elements of Burners With Self-Carbonization, by G.I. Demin, A.I. Pluzhnikov. 10 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Chernaya Metallurgiya, No 3, 1967, pp 163-168.
AIR/FTD/MT-24-325-68

Hysteresis Loops of Iron-Gadolinium Films, Plotted by the Static Method, by V. A. Buravikhin, A.A. Nedel'ko, et al. 6 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika, No 7, 1967, pp 137-139.
AIR/FTD/MT-23-419-68

Discoloring and Breakdown of Barium Titanate, by N. I. Shefer, Ye. V. Bursian. 8 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika, No 8, 1967, pp 60-64.
AIR/FTD/MT-23-1013-68

File Diodes on the Basis of Chalcogenide Glasses, by V. I. Gerasimov, V. P. Sesarov. RUSSIAN, per, Izv VUZ Fiz, No 9, 1967, pp 80-85.

NLL Ref: 3774.5 (1814)

A Pulse Source for Heavy, Short-Duration Electron Currents, by S. P. Buzayev, Ya. F. Zagulov, et al. 5 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Fizika, No 1, 1968, pp 145-147. AIR/FTD/HT-23-1031-68

Determination of Plasma Parameters According to the Intensity of the Continuous Spectrum, by M. B. Chelnokov. RUSSIAN, per, Izv VUZ Fiz, No 1, 1969, pp 12-17.

*NASA TT F-12,378

Population of the Excited States of Atoms and Ionization in Non-equilibrium Cesium Plasma of Low Pressure, by M. B. Chelnokov. RUSSIAN, per, Izv VUZ Fiz, No 1, 1969, pp 52-56.

*NASA TT F-12,379

Nonlinear Distortions and Optimum Working Conditions for Several Types of Optical Modulators, by A. P. Buryak, B. V. Gisin. 6 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Radioelektronika, Vol 10, No 5, 1967, pp 489-493.

AIR/FTD/HT-23-453-68

Neutron Resonances of Gadolinium Isotopes, by Ye. N. Karzhavina, Nguyen Phong, 30 pp. RUSSIAN, rpt, JINR-P3-3882, 1968. AEC/WAPD/Tr-108-68

Statistical Calculation of Inelastic Collisions of Fast Particles with the Intranuclear Nucleons, by V. S. Barashenkov.

RUSSIAN, rpt, JINR-P2-4066, 1968.

*AEC/ORNL-Tr-2123

Interaction Cross Sections of Fast Particles and Atomic Nuclei, by V. S. Barashenkov, K. K. Gudima, 43 pp. RUSSIAN, rpt, JINR-P2-4068. AEC/ORNL/Tr-2073-69

Peculiarities of a Micro-Impact Load in Cavitation-Abrasive Action, by I. N. Bogachev 5 pp.

RUSSIAN, rpt, Kavitatsiya i Gidrosnifuyushchaya Stoykost' Metallov v Gidravlicheskiy Turbinakh, 1965, pp 37-40.

AIR/FTD/HT-23-394-68

Cavitation and Cavitation-Abrasive Action in the Flow Around a Rectangular Projection by a Hydrodynamic Current, by S. P. Kozlov, 5 pp. RUSSIAN, rpt, Kavitatsiya i Gidrosnifuyushchaya Stoykost' Metallov v Gidravlicheskiy Turbinakh, 1965, pp 41-44.

AIR/FTD/HT-23-394-68

Structure and Properties of Cavitation-Resistant Steel 30Kh10G10, by R. I. Mints. 9 pp. RUSSIAN, rpt, Kavitatsiya i Gidrosnifuyushchaya Stoykost' Metallov v Gidravlicheskiy Turbinakh, 1965, pp 82-87.

AIR/FTD/HT-23-394-68

Investigation of Cavitation Resistance and Kinetics of Cavitation Breakdown of Metallic Alloys, by V.V. Gavrilko, D.I. Bol'shukhin. 9 pp.

RUSSIAN, rpt, Kavitatsiya i Gidrosnifuyushchaya Stoykost' Metallov v Gidravlicheskiy Turbinakh, 1965, pp 88-94.

AIR/FTD/HT-23-394-68

Separation of Deuterium From Hydrogen by Means of the Low-Temperature Distillation Method, by M.P. Malkov, A.G. Zel'dovich. 27 pp. RUSSIAN, per, Kislород, No 6, 1959, pp 1-13.

AIR/FTD/HT-24-324-68

Contribution of Corpuscular Radiation to the Ionization of Ionosphere's D-Layer, by V. F. Tulinov, S. G. Yakovlev. RUSSIAN, per, Kosmicheskiye Issledovaniya, Vol 7, No 1, 1969, pp 122-126. Sci & Tech Info Facility ST-AI-PF-10828

The Role of the Bonding Medium in Electroluminescence Layers, by V.Ye. Solodkin T.V. Yermeyeva. 12 pp. RUSSIAN, per, Lakokrasochnyye Materialy i ikh Primeneniya, No 1, 1967, pp 19-22.

AIR/FTD/HT-23-344-68

The Nature of Deformation of the Surface Layers of Polymethylmethacrylate Under Friction, by A. I. Yel'kin, V. I. Titov. 9 pp. RUSSIAN, per, Mekhanika Polimerov, No 1, 1968, pp 90-94.

AIR/FTD/HT-23-1048-68

Methods of High-Speed Measurements in Gas Dynamics and Plasma Physics, by Yu. Ye. Nesterikhin. RUSSIAN, bk, Metody Skorostnykh Izmereniy v Gazodinamike i Fizike Plazma, 1967, pp 1-172.

NASA TT F-12,202

Experimental Determination of Heat Conductivity of Argon Plasma, by Ye. I. Asinovskiy, A. V. Kirillin. 21 pp.

RUSSIAN, mono, Mezhdunarodnyy Simpozium po Svoystvam i Primeneniyu Nizkoterperaturnoy Plazmy, 1965, pp 1-23.
AIR/FTD/MT-24-317-68

Electrical Characteristics of the Explosion of Thin Metallic Wire in Vacuum, by Ye. K. Chekalin, V. S. Shumenov. 6 pp.
RUSSIAN, rpt, Moscow. Energeticheskiy Institut. Sovystva Gazov Pri Vysokikh Temperaturakh (Fizicheskaya Gazodinamika, Termodinamika i Fizika Goreniya), 1967, pp 110-113.
AIR/FTD/MT-23-944-68

A Thermodynamic Analysis of the Conditions for the Rolling of Tungsten in the Vacuum at High Temperatures, Without Oxidation, by A. N. Krestovnikov, A. V. Krupin, et al. 11 pp.
RUSSIAN, per, Moscow. Institut Stali i Splavov. Sbornik, No 41, 1966, pp 196-204.
AIR/FTD/MT-23-296-68

Some Problems of the Physics of High Energies and Cosmic Rays, by S. A. Azimov.
RUSSIAN, bk, Nekotoryye Voprosy Fiziki Vysokikh Energiy i Kosmicheskikh Luchey, 1967, 128 pp.
NAS/NASA/TT F-535 69

Rayleigh-Taylor Instability in Liquid-Metal Synchronous MHD Generators and Methods of Stabilizing it, by K. I. Kim. 14 pp.
RUSSIAN, rpt, Neustoychivost' Releya-Teylora V Zhidkometallicheskiykh Sinkhronnykh MGD Generatorakh i Sposoby Yeye Stabilizatsii SM 107/177, pp 1-12.
AIR/FTD/MT-24-174-68

Theory of Transport Phenomena in a Plasma in a Strong Magnetic Field, by V. A. Baklunov, V. P. Silin, 5 pp.
RUSSIAN, rpt, NP-17761, 1969
AEC/MATT/Tr-85-69

Absolute Measurement of the Particle Flux Density of Fast Electrons with a Faraday Cup Device, by J. Kretschko.
RUSSIAN, per, Nuclear Instrum. Method, Vol 16, 1962, pp 29-36.
NLL Ref: 5809.95 (T.6106)

Duration of Photoluminescence of Alkali-Halide Crystals or Activated Tl or In, by I. K. Plyavin, 5 pp.
RUSSIAN, per, Optika i Spektroskopiya, No 4, 1958, pp 266-268.
ARM/RSIC/Tr-911-69

A Laser With a Quartz Electrooptical Q-Switch, by A.P. Zharkov, Yu. Ye. Kanach, et al. 8 pp.
RUSSIAN, per, Optiko-Mekhanicheskaya Promyshlennost', No 3, 1968, pp 30-33.
AIR/FTD/MT-24-332-68

Optimum Geometric Relationships in an Coaxial Linear Induction MHD Generator, by N. M. Gkhrenenko, A. G. Chepovetskiy. 22 pp.
RUSSIAN, rpt, Optimal'niye Geometricheskiye Sootnosheniya v Koaksial'nom Lineynom Induktsionnom MGD-Generatore SM 107/174, pp 1-21.
AIR/FTD/MT-24-173-68

The Doppler-Effect in Fast Reactors, by V. L. Timchenko.
RUSSIAN, per, Physics of Nuclear Reactors, Vol 2, pp 153-165.
NLL Ref: 9091.9F(WH Trans 213)

The Impact on a Thin Elastic Diaphragm by a Cone, by S. S. Grigoryan, D. M. Grigoryan. 11 pp.
RUSSIAN, per, Prikladnaya Matematika i Mekhanika, Vol 30, No 6, 1966, pp 1035-1041.
AIR/FTD/MT-23-348-68

Growth of Cracks During Destruction of Solid Polymers, by G.N. Savin, A.A. Karinskiy. 12 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 3, No 9, 1967, pp 33-39.
AIR/FTD/MT-23-1074-68

Limit Deformativity of Anisotropic Plastics Under Biaxial Compression, by F.P. Belyankin, V.F. Yatsenko, et al. 6 pp.
RUSSIAN, per, Prikladnaya Mekhanika, Vol 3, No 9, 1967, pp 90-98.
AIR/FTD/MT-23-1074-68

Conductivity of a High-Density Plasma, by V. A. Alekseyev, et al.
RUSSIAN, rpt, Paper SM-74/102, Symposium on Magnetohydrodynamic Electrical Power Generation, Salzburg, No 1, 1966, p 617.
NLL Ref: 5828.4F (M.13074)

Some Electrical Properties of Dense Plasma, by V. A. Alekseyev.
RUSSIAN, rpt, Paper SM-107/129, Symposium on Magnetohydrodynamic Electrical Power Generation, Warsaw, 24-30 July 1968.
NLL Ref: 5828.4F (M.13073)

Calculation of the Boundary Layer at the Electrode of an MHD Generator of Variable Cross Section, by A. Ye. Yakubenko. 14 pp.
RUSSIAN, rpt, Raschet Pogranichnogo Sloya na Elektrode MGD Generatorsa Peremennogo Sedheniya SM-107/163, pp 1-15.
AIR/FTD/MT-24-176-68

Calculation and Experimental Investigation of Pendular Anti-vibrator With Friction, by L. I. Shteynvol'f, V. N. Karaban. 14 pp. RUSSIAN, per, Respublikanskaya Mazhvedomstvennyy Nauchno-tekhnicheskaya Sbornik. Teoriya Mekhanizmov i Mashin, Khar'kov, No 1, 1966, pp 102-110. AIR/FTD/MT-24-220-68

Experimental Study of an Oscillatory Process in Cylindrical Shells Excited by Instantaneous Liberation of Energy, Ye. A. Limberg, O. F. Tkachev, et al. 13 pp. RUSSIAN, per, Samoletostroyeniye i Tekhnika Vozdushnogo Flota, No 8, 1966, pp 133-141. AIR/FTD/HT-23-651-68

Unsteady Wave Motions of Liquids, by L. V. Cherkesov, 25 pp. RUSSIAN, per, Sovremennyye Voprosy Gidrodinamiki, Kiev, 1967, pp 249-266. JPRS 47807

Body Wave Drag from Internal Waves, by R. B. Nudel'man, 12 pp. RUSSIAN, per, Sovremennyye Voprosy Gidrodinamiki, Kiev, 1967, pp 291-299. JPRS 47807

Liquid Phase Sintering, by V. N. Yeremenko, Yu. V. Naidich. RUSSIAN, bk, Spekanie v Prisutstvii Zhidkoi Metallicheskoj Fazy, 1968. CONSULTANTS BUREAU/PLENUM PRESS

Calculation of Hydrodynamic Pressures Imposed by Ship's Propeller, by S. K. Dorofeyuk, L. V. Medvedovskaya. RUSSIAN, per, Sudostroyeniye, No 5, 1968, pp 8-11. Dept of Navy NavShips Trans No 1155

Cryogenic Engineering, Vol 1 of 2 (Selected Chapters), by A.M. Arkhanov. K.S. Butkevich. 748 pp. RUSSIAN, bk, Tekhnika Nizkikh Temperatur, 1964, pp 1-392. AIR/FTD/MT-24-216-68

Cryogenic Engineering, Vol 2 of 2 (Selected Chapters), by A.M. Arkhanov. K.S. Butkevich, et al. 748 pp. RUSSIAN, bk, Tekhnika Nizkikh Temperatur, 1964, pp 393-748. AIR/FTD/MT-24-216-68

A Method for the Simultaneous Determination of the Relationship Between λ and C of Thermal Insulation Materials and the Temperature, by I. I. Pereletov. RUSSIAN, per, Teploenergetika, Vol 7, No 2, 1960, pp 77-80. NTC 69-10934-20M

Thermophysical Properties of Liquid Air and its Components, by A.A. Vasserman, et al. 240 pp. RUSSIAN, pt, Teplofizicheskie Svoystva Zhidkogo Vozdukh i ego Komponentov, No 3, 1968. *CRSTI TT 69-55092

Thermodynamics of Ion Exchange (Collection). RUSSIAN, bk, Termodinamika Ionogo Obmena, 1968. CONSULTANTS BUREAU/PLENUM PRESS

Trapping Levels in Alkali Halide Crystals Induced at Impurity Neighbors, by N. N. Kristoffel. RUSSIAN, per, Trudy Inst Fiz Astron AN EST SSR, Vol 32, 1967, pp 54-68. NLL Ref: 5828.4f (12997)

Certain Methods of the Gas-Dynamic Theory of Lubrication, by L. G. Stepanyants. 24 pp. RUSSIAN, per, Trudy Leningrad. Politekhnikeskiiy Institut, No 280, 1967, pp 27-43. AIR/FTD/MT-24-276-68

Stimulating the Dynamic Problem of the Theory of Elasticity, by G.L. Khesin, O.K. Slavin. 12 pp. RUSSIAN, per, Trudy Moscow. Inzhenerno-Stroitel'nyy Institut, No 47, 1965, pp 166-176. AIR/FTD/HT-23-85-69

The Interpretation of Diffraction Pictures of Slow Electrons on NaCl, by G. K. Zyryanov. 8 pp. RUSSIAN, per, Vestnik. Leningrad. Universitet. Seriya Fiziki i Khimii, No 3, 1966, pp 70-74. AIR/FTD/MT-24-357-68

The Problem of the Interaction of a Jet With an Unbounded Flow in the Case of High Speeds at Infinity, by A. Ya. Sagomonyan. 9 pp. RUSSIAN, per, Vestnik. Moscow. Universitet. Seriya I. Matematika, Mekhanika, No 4, 1967, pp 99-104. AIR/FTD/HT-23-320-68

Alternation of Flow and Heat Exchange Under the Conditions of Artificial Turbulization of Flow in Tubes, by Ye.K. Kalinin, S.A. Yarkho. 5 pp. RUSSIAN, per, Vestsi. AN BSSR. Seriya Fizika-Tekhnichnykh Navuk, No 2, 1966, pp 62-64. AIR/FTD/HT-23-360-68

Discharge of Gas Jets into a Supersonic Stream from Orifices in the Lateral Surface of a Body, by A. I. Zubkov, A. I. Glagolev.

RUSSIAN, per, Moskovsk. Univ, Vestnik Seriya I, Mat o Mekhan, No 5, 1968, pp 66-72.

Dept of Navy APL/JHU CLB-3 T-576

The Effect of Phase Changed in the Mineralogical Composition of the Inorganic Part of Natural Carbons on the Electrical Conductivity of a Colloidal Plasma, by N. A. Sinayskiy, I. A. Yavonkiy. 20 pp.

RUSSIAN, rpt, Vliyaniye Fazovykh Izmeneniy V Mineralogicheskoy Sostave Neorganicheskoy Chasti Natural'nykh Ugley na Elektroprovodnost', Kolloidnoy Plazmy, pp 1-18.
AIR/FTD/MT-24-182-68

On Some Peculiarities of the Transfer of Rotational and Vibrational Energies in Processes of Ion-Molecular Collisions, by G. N. Polyakova, Ya. M. Fogel et al. 17 pp.

RUSSIAN, per, Zh Eksp Teor Fiz, Vol 54, No 2, 1968, pp 374-383.

AEC/SC/Tr-69-1007

Electrographic Properties of Sublimated Cadmium Chalcogenide Layers, by Yu. A. Cherkasov.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 3, 1967, pp 227-228.

NLL Ref: 5828.4F (12980)

Investigation of the Effect of Some 6-alkyl-substituted Traizaindolizine on the Spectral Sensitization of Photographic Emulsion, by M. V. Mishakova.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 245-254.

NLL Ref: 5828.4F (12996)

Some Quantitative Relationships of Gold Sensitization, by I. A. Novikov, N. N. Gabitova.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 264-266.

NLL Ref: 5828.4F (12994)

Comparing the Kinetics of Aging of Photographic Emulsions and the Kinetics of Fading of the Latent Image, by

A. L. Kartuzhanskiy, A. F. Yruchenko.
RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 4, 1967, pp 279-288.

NLL Ref: 5828.4F (13017)

Form of the Air Gap Between the Support and the Wetting Liquid at Kinetic Wetting, by V. G. Gimpelson, S. M. Levi.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 457-458.

NLL Ref: 5828.4F (13005)

Investigation of the Mechanism of Energy Transfer in the Spectral Sensitization Phenomenon, by I. A. Akimov, A. V. Shabliya.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 12, No 6, 1967, pp 459-462.

NLL Ref: 5828.4F (13006)

Investigation of the Effect of Triazenes on Photographic Emulsions, by L. F. Avramenko.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 3-13.

NLL Ref: 5828.4F (12956)

Radioluminescence of Photographic Film Support, by A. L. Kartuzhanskiy.

RUSSIAN, per, Zh Nauch Prik Fot Kinemat, Vol 13, No 1, 1968, pp 55-56.

NLL Ref: 5828.4F (12967)

Investigation of Distribution of Pressure on Some Star-Shaped Bodies at Mach ≈ 4 , by A. L. Gonor, A. I. Shvets. 8 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 6, 1965, pp 122-125.
AIR/FTD/MT-23-357-68

Effectiveness of a Gas Curtain on a Tubular Surface, by Ye. P. Volchkov, V. Ya. Levchenko. 10 pp.

RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 1, 1966, pp 115-120.
AIR/FTD/MT-23-658-68

Determination of Entrance Length During Turbulent Gas Flow in an Annular Tube for Substantial Nonisothermicity, by A. I. Leont'yev.

RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, Jul-Aug 1968, pp 99-104.

NASA TT F-12,133

Visualization of Supersonic Flows by Means of Prebreakdown Discharge, by V. I. Alferov.

RUSSIAN, per, Zh Prikl Mekh Tekh Fiz, No 4, 1968, pp 117-119.

*AEC/SANDIA

Nonlinear Theory of Electro-Magnetic Wave Attenuation in Plasma, by N. S. Yerokhin.

RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1968, pp 11-17.

*NASA TT F-12,372

Flow in a Channel of a Conducting Gas with a Large Magnetic Reynolds Number in a Linear Approximation, by A. G. Korsun. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1968, pp 26-31.
*NASA TT F-12,374

Method of Efficient Energy in the Problem Concerning a Strong Blast in Real Gas, by V. V. Lunev. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1968, pp 50-52.
*NASA TT F-12,375

Investigation of Heat Transfer Allowing for Radiation During the Flow of Gas in a Tube, by V. N. Vetlutskiy. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1968, pp 82-88.
*NASA TT F-12,376

The Stability of Liquid Film on the Surface of a Rotating Cylinder, by L. N. Maurin. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 5, 1968, pp 98-99.
*NASA TT F-12,377

Stationary Supersonic Source of Non-equilibrium Plasma, by G. A. Luk'yanov. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 6, 1968, pp 13-19.
*NASA TT F-12,365

Acceleration of a Conducting Gas in a Strong Non-Stationary Electro-Magnetic Field, by G. M. Bam-Zelikovich. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 6, 1968, pp 36-40.
*NASA TT F-12,366

Numerical Solution to the Problem on the Development of a Laminar Flow in a Conduit, by L. A. Vulis. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 6, 1968, pp 120-123.
*NASA TT F-12,373

Analysis of Reflection Phenomena of Shock Waves from a Grid Flow, by L. A. Zaklyaz'minskiy. RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 6, 1968, pp 123-129.
*NASA TT F-12,367

The Evolution of Waves in a Heterogeneous Dispersing Medium, by V. Ts. Gurovich, RUSSIAN, per, Zh Prikl Mekh i Tekh Fiz, No 6, 1968, pp 153-154.
*NASA TT F-12,368

Excitation of Generation in Solutions of Thirteen Organic Dyes With the Aid of a Giant Ruby-Laser Pulse, by A. N. Rubinov, V. A. Mostovnikov. 14 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 7, No 3, 1967, pp 327-335.
AIR/FTD/MT-24-187-68

Occurrence of Angular Oscillation Modes When the Resonator Mirror of an OKG is Tilted, by M.P. Vanyukov, V.I. Isayenko, et al. 7 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 7, No 3, 1967, pp 336-339.
AIR/FTD/MT-24-187-68

Investigation of Temperature Deformation of Ruby-Laser Crystals, by N.I. Grishmanova, L. L. Khazov, et al. 7 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 7, No 3, 1967, pp 340-343.
AIR/FTD/MT-24-187-68

Photoelectric Method of Investigating Distribution of Pumping Over the Cross Section of Laser Rods, by L.A. Kravtsov, L.V. Sytchenko, et al. 8 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 7, No 3, 1967, pp 344-348.
AIR/FTD/MT-24-187-68

Influence of Rate of Switching of the Optical Cavity on Characteristics of Laser Emission, by I. F. Balashov, B. G. Berezin, et al. 10 pp. RUSSIAN, per, Zhurnal Prikladnoy Spektroskopii, Vol 7, No 3, 1967, pp 354-359.
AIR/FTD/MT-24-187-68

Performance of Laval Nozzles under Partial Load Conditions, by O. S. Ryzhov. RUSSIAN, per, Zh Vych Mat i Mat Fiz, Vol 7, No 4, 1967, pp 859-866.
NLL Ref: 5809.95 (T.6048)

Method of Finite Differences for the Solution of One-Dimensional Non-Stationary Problems of Magnetic Hydrodynamics, A. A. Samarskiy. RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 8, No 5, 1968, pp 1025-1038.
*NASA TT F-12,361

Three-Dimensional Supersonic Flows of Gas with Non-Equilibrium Processes, by O. N. Katskova.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 8, No 5, 1968, pp 1049-1062.
*NASA TT F-12,362

High-Temperature Boundary Layer in the Atmosphere, by Ye. Ye. Shnoi, 21 pp.
RUSSIAN, per, Zh Vychisl Mat i Mat Fiz, Vol 8, 1968, pp 1063-1075.
AEC/SC/Tr-69-1014

One Principle of the Optimization of Computations According to the Monte-Carlo Method, by G. A. Mikhaylov.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 8, No 5, 1968, pp 1085-1093.
*NASA TT F-12,364

Calculation of an Equation for a Three-dimensional Laminar Boundary Layer by the Integral Correlation Method, by V. A. Bashkin.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 8, No 6, 1968, pp 1280-1290.
*NASA TT F-12,293

Application of the Monte-Carlo Method to the Calculation of the Aerodynamic Characteristics of Irregular Shaped Bodies in a Free Molecular Flow, by A. A. Bogacheva.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 8, No 6, 1968, pp 1395-1402.
*NASA TT F-12,360

Bodies of Rotation in a Sonic Flow of Ideal Gas, by V. N. Diesperov.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 9, No 1, 1969, pp 164-176.
*NASA TT F-12,369

The Drag of a Rigid Body in a Tube by the Flow of a Viscous Incompressible Fluid, by V. A. Lyul'ka.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 9, No 1, 1969, pp 238-243.
*NASA TT F-12,370

Self-similar Solutions for the Collapse of an Empty Cylindrical Cavity in a Gas with an Equation of the Form $p=Sp^k$, by H. S. Kozin.
RUSSIAN, per, Zh Vych Matemat i Matemat Fiz, Vol 9, No 1, 1969, pp 243-255.
*NASA TT F-12,371

Determination of the Thermal Decomposition Products of Polytrifluorochloroethylene, by Wei-yuan Huang, Ch'ang-rung Hu. 6 pp.
CHINESE, per, K'o Hsueh T'ung Pao, Vol 17, No 7, 1966, pp 295-298.
AIR/FTD/HT-23-270-68

Elastic Study of Atomic Configurations of Interstitial Impurities in Body-centered Cubic Metals, by Cheng-chu Yang. 31 pp.
CHINESE, per, Wu Li Hsueh Pao (Acta Physica Sinica) Vol 22, No 3, 1966, pp 281-293.
AIR/FTD/HT-23-325-68

On the Motion of Particles in Symmetrical Fields, by R. Klima.
CZECH, per, Czech Journal of Physics, Vol B15, 1965, pp 473-493.
Dept of Navy APL/JHU T-2255

Reducing Takeoff and Landing Distances by Using the Airlift Effect on the Wings, by V. Kocka. 11 pp.
CZECH, per, Letacky Obzor, Vol 10, No 8, 1966, pp 206-208.
AIR/FTD/HT-23-299-68

Calculation of a Flow Around Cascades of Blades, by J. Polasek.
CZECH, per, Strojirenstvi, Vol 17, No 11, 1967, pp 842-849.
NLL Ref: 3774.5 (1805)

The Contribution to a Velocity-Gauge Measurement of a Noncompressible Fluid in a Turbulent Flow, by Z. Budlovsky. 12 pp.
CZECH, per, Strojnický Casopis, Vol 18, No 6, 1967, pp 498-507.
AIR/FTD/HT-23-825-68

The Measurement of Rapidly Fluctuating Gas Temperatures, by E. J. Diehl.
DUTCH, per, Ingenieur, Vol 68 E, No 36, 1956, pp 91-95.
NLL Ref: 3774.5 (1812)

General Considerations Concerning Metastable Species, by Guy Watel.
FRENCH, rpt, March 1967, 58 pp.
*NASA TT F-12,353

Study of the Relationship Between Latent Heat of Fusion and Surface Tension, by M. C. Mascré.
FRENCH, per, Comptes Rendus Acad Sci, Vol 266 B, 1968, pp 34-37.
NLL Ref: 9022.27 (1036)

On the Propagation of Plastic Waves in Steel Bars, by N. Cristescu.
FRENCH, rpt, IX Congress International de Mecanique Applique, 1957, pp 191-201.
*Dept of Navy APL/JHU J-1288

Spectral Emission Source with Controlled Electronic Excitation of Vapor-jet, by M. Horani.
FRENCH, per, Journal de Chimie Physique et Physicochimie, Vol 64, No 2, 1967, pp 331-333.
*NASA TT F-12,342

Precise Measurements in the Symmetric Mass Region of the Kinetic Energy of Fragments of Thermal Fission of U 235, by C. Signarbieux.
FRENCH, per, Nuclear Physics, Vol A 99, 1967, pp 41-54.
NLL Ref: 5828.4F (M. 13031)

Study of Small Harmonic Vibrations of a Heated Structure in the Vicinity of a Loading State Corresponding to a Partial Entry into the Plastic Domain, by Henri Loiseau.
FRENCH, rpt, ONERA, TP 604, 1968.
*NASA TT F-12,320

Flow Measurement of Two-phase Mixtures of Gas and Pulverized Coal, by M. Sasiadek, M. Teisseyre.
FRENCH, per, Rev Gen Therm, No 75, 1968, pp 267-278.
NLL Ref: 9022.09 (4973)

Plasma Formation From Particles of Condensed Matter, by F. Prevot, J. Coutant.
FRENCH, rpt, S.R.A.C.P. Report, 1964, 25 pp.
NLL Ref: 9091.9F (GFO/513)

Methods for Measuring the Thermic Conductivity of Glass, by P. Acloque.
FRENCH, per, Verres et Refractaires, Vol 13, No 3, 1959, pp 131-142.
NTC 69-10833-20M

Noise Measurement Performed on Bodies in a Flow in Subsonic Wind Tunnels. Part 1. by G. Schulz.
GERMAN, rpt, DLR-FB-68-43, 35 pp.
NASA TT F-12,111

Propeller Theory With Several Supporting Vortex Lines, by W. Zwick. 12 pp.
GERMAN, per, Akademie der Wissenschaften zu Berlin. Monatsberichte, Vol 8, No 4, 1967, pp 264-274.
AIR/FTD/HT-23-762-68

Inhibition of Stimulated Emission by Perturbation of the Lower Level, by W. Brunner, H. Paul, et al. 8 pp.
GERMAN, per, Akademie der Wissenschaften zu Berlin. Monatsberichte, Vol 9, No 6, 1967, pp 483-489.
AIR/FTD/HT-23-1132-68

Investigation of the Effects That Take Place When Foreign Gases are Added to a CO₂ Laser, by P. Glas. 9 pp.
GERMAN, per, Akademie der Wissenschaften zu Berlin. Monatsberichte, Vol 9, No 8, 1967, pp 596-604.
AIR/FTD/HT-23-1129-68

On the Theory of Conductivity of Electrolytes and Weakly Ionized Plasmas, II., by D. Kremp, W. Ebeling, 7 pp.
GERMAN, per, Ann Phys (Leipzig), Vol 18, No 7, 1966, pp 246-252.
AEC/ORNL/Tr-2068-69

Heat and Mass Transfer Between Surfaces and Impinging Jets, by E. U. Schlunder, V. Gnielinski.
GERMAN, per, Chemie-Ing-Techn, No 9/10, 1967, pp 578-584.
NLL Ref: 5828.4F (M.13056)

On the Calculation of the Sonic Field of a Circular Piston Membrane, by H. Stenzel.
GERMAN, per, Elektr Nachr-Tech, Vol 12, No 1, 1935, pp 16-30.
*Dept of Navy APL/JHU J-1285

Formulae for Hardenability, by E. Just.
GERMAN, per, Harterei-Tech-Mitt, No 23, 1968, pp 85-100.
NLL Ref: 9022.401 (746-4)

Structure and Polymorphism of Eucryptite (Low-Temperature LiAlSiO₄). Part II. Observation on Polymorphism, by H. G. F. Winkler.
GERMAN, per, Heidelberger Beitrage zur Mineralogie und Petrographie, Vol 4, No 1/2, 1954, pp 233-242.
NTC 69-10826-20B

The Decay of ^{67}Cu , by W. Beusch.
GERMAN, per, Helv Phys Acta, Vol 30, 1957,
pp 268-269.
*AEC-ORNL

Purification of Helium in High-Temperature
Reactors with a Helium Expansion Cycle, by
Bruno Grison, Guy Simonet, 17 pp.
GERMAN, rpt, IAEA, 21-25 Oct 1968
AEC/ORNL/Tr-3012-69

Holography-three-dimensional Images Using
Lasers, by H. Kienle.
GERMAN, per, Kino-Technik, Vol 7, 1967,
pp 155-158.
NLL Ref: 5207 (1316)

Thermal Pulse Stresses in a Flat Plate,
by W. Albrecht.
GERMAN, per, Konstruktion, Vol 19, No 9,
1967, pp 351-355.
NLL Ref: 3774.5 (1810)

Temperature Measurements for Flow Studies,
in Particular on Radial Compressors, by
H. Pfau.
GERMAN, per, Konstruktion, Vol 19, No 12,
1967, pp 478-484.
NLL Ref: 3774.5 (1809)

Comparisons of Capabilities and Principles
Between Optical Microscopes, Penetration
Radiation Electron Microscopes and the
New Raster Incident Radiation Electron
Microscope Stereoscan 1966, by
H. Reumuth.
GERMAN, per, Melliand-Textilberichte,
Vol 48, No 5, 1967, pp 489-501.
NTC 69-10898-20F

The Dislocation Structure of the Boundary
Layer when Silver and Copper are Enjoin-
ed, by Ulrich Gradmann.
GERMAN, per, Phys Kondens Materie, Vol 3,
1964, pp 91-98.
*NASA TT F-12,350

About the Reaction of SnO_2 at High Tem-
peratures, and About a Few Systems with
 SnO_2 , by A. Dietzel, W. Poch.
GERMAN, per, Radex Rundschau, No 1, 1960,
pp 56-61.
NTC 69-10905-20L

Principles of Materials Separation in
Magnetic Fields, by H. Schubert.
GERMAN, per, Verfahrenstechnik, Vol 1,
No 9, 1967, pp 405-411.
NLL Ref: 5828.4F (M.13034)

A Universal Electric Strip Measuring Device, by
W. Krug.
GERMAN, per, Z. Angew. Physik, Vol 18, No 5/6,
1965, pp 448-453.
BISI 6998

Comments on the Dependence of Vickers
Hardness on Load, by A. Braum.
GERMAN, per, Zeit fur Metallkunde, Vol
46, No 7, 1955, pp 499-503.
NTC 69-10901-20K

The Conduction Mechanism of Oxidic Semi-
conductors at High Temperatures, by
J. Rudolph.
GERMAN, per, Zeit fur Naturforschung,
Vol 14 A, No 8, 1959, pp 727-737.
NTC 69-10882-20L

Lattice Vibrations in Crystals with Wurtzite
Structure. Part III. Discussion of the
Oscillations in Special Directions in the
Case of Neglect of Coulomb's Forces. Com-
parison with the Zinc Blende Lattice, by
L. Merten.
GERMAN, per, Zeit fur Naturforschung, Vol
17 A, No 1, 1962, pp 65-85.
NTC 69-10823-20B

The Visible Afterglow of Active Nitrogen,
by G. Cario.
GERMAN, per, Zeit Physik, Vol 58, 1929,
pp 769-780.
NASA TT F-12,003

On the Compton Effect for Bound Electrons, by
K. Franz, 49 pp.
GERMAN, per, Z. Phy, Vol 90, 1934, pp 623-649.
AEC/UCRL/Tr-10311-68

Dependence of Specific Pressure and Electron Impact
Widening in the High Pressure Mercury Discharge
upon Strength of Current, by R. Rompe, P. Schultz,
15 pp.
GERMAN, per, Z Physik, Vol 110, 1938, pp 223-232.
AEC/UCRL/Tr-10322-69

Concerning the Behavior of Continuous Mercury
Radiation at High Densities, by R. Rompe,
P. Schulz, 8 pp.
GERMAN, per, Z Physik, Vol 112, 1939, pp 369-376.
AEC/UCRL/Tr-10325-69

The Filter Lens as a Monochromator of
Fast Electrons, by W. A. M. Hartl.
GERMAN, per, Zeit fur Physik, Vol 191,
1966, pp 487-502.
NLL Ref: 5828.4F (12921)

Theory of Thermal Conduction, by J. Meixner, 382 pp.
GERMAN, per, Z Phy, Vol 193, 1966, pp 366-383.
AEC/UCRL/Tr-1393-69

Measurement of Excitation Temperatures in a high-Current Hollow Cathode, by P. A. Boeger.
GERMAN, per, Z. fur Phy, Vol 216, 1968, pp 248-260.
*AEC

The Phase Contrast Method in Microscopic Observation, by F. Zernike.
GERMAN, per, Zeit fur Technische Physik, Vol 16, No 1, 1935, pp 454-457.
Dept of Navy APL/JHU CLB-3 T-573

Paper on the Theoretical Determination of Current Flow with Cavitation in Radial Blade Cascades, by L. Krsmanovic.
HUNGARIAN, rpt, 2nd Conf on Hydraulic Mechanics, 1966, Budapest, pp 214-221.
NLL Ref: 6075.461 (1956)

Calculation of the Shielding Around the Targets of the Frascati Linear Accelerator, by M. Pelliccioni, 10 pp.
ITALIAN, rpt, LNF-66/14. Laboratori Nazionali de Frascati del CNEN, 1966.
AEC/ORNL/Tr-1897-69

Recent Trends in Radiation-induced Polymerisation with Particular Reference to Mechanisms, by Y. Tabata.
JAPANESE, per, Genshiryoku Kogyo, Vol 13, No 8, 1967, pp 30, 33-38.
NLL Ref: 5828.4F (M.13032)

A Mossbauer Effect Analyzer, by Eiichi Ando.
JAPANESE, per, Japa. Society of Applied Physics, Vol 28, No 4, 1968, pp 307-313.
*AFCL

Photoconductivity in InSb by Double Photon Absorption, by Hideomi Matsuzaki.
JAPANESE, per, Japan Society of Applied Physics, Vol 37, No 7, 1968, pp 636-637.
*AFCL

Picosecond Optical Pulses From Solid State Lasers, by Toshio Ito.
JAPANESE, per, Japan Society of Applied Physics, Vol 37, No 10, 1968, pp 956-958.
*AFCL

Optical Harmonic Generation and Optical Parametric Oscillation, by Shogo Yoshikawa.
JAPANESE, per, Japan Society of Applied Physics, Vol 37, No 10, 1968, pp 959-962.
*AFCL

Boundary Layer on Blades of a Rotating Blade Ring, by S. Apanasewicz. 11 pp.
POLISH, per, Lodz. Politechnika. Katedra Cieplnych Maszyn Przeplywowych. Ciepne Maszyny Przeplywowe, No 1, 1967, pp 11-18.
AIR/FTD/HT-23-871-68

Flow Losses Through Radial Rotor Crown and Optimum Blade Number, by I. Ye. Tulisza. 11 pp.
POLISH, per, Lodz. Politechnika. Katedra Cieplnych Maszyn Przeplywowych. Ciepne Maszyny Przeplywowe, No 1, 1967, pp 77-83.
AIR/FTD/HT-23-871-68

Application of Gas Losses to the Measurement of Electron Concentration in Plasmas, by Z. Rozkwitalski.
POLISH, per, Postepy Fiz, Vol 19, 1968, pp 383-401.
*AEC/LASL

Neutron Radiative Capture Gamma Spectrometry as a Method of Determining the Composition of Iron-Bearing Rocks and Ores, by A. M. Blyumentsev.
POLISH, rpt, Proceedings of a Symposium, Warsaw Oct 1965, No 2, pp 187-202.
*AEC/AERE

Description of Gas Lasers in Warsaw School, by Herman Klejman, 8 pp.
POLISH, rpt, Radioamator i Krotkofalowiec, Warsaw, Jan 1969, pp 3-6.
JPRS 47757

Gas Chromatography Applied to the Field of Polymers, by F. Arranz.
SPANISH, per, Revista de Plast Moderne, Vol 18, No 4, 1967, pp 253-260.
NLL Ref: 5828.4F (13012)

Long-Term Aims for Developing Physics Proposed, by Nguyen Van Hieu Dubna. 15 pp.
VIETNAMESE, rpt, Tin Tuc Hoat Dong Khoa Hoc, Hanoi, Dec 1968, pp 1-9, 33.
JPRS 47827

Aims of Solid-State Physics Outlined for Vietnam, by Vu Dinh Cu, 6 pp.
VIETNAMESE, rpt, Tin Tuc Hoat Dong Khoa Hoc, Hanoi, Dec 1968, pp 9-11.
JPRS 47827

Experimental Investigation of the Influence of the Excess Fuel Coefficient of Electrical Conductivity of Potassium-Seeded Hydrocarbon-Fuel Combustion Products, by S. A. Goldenberg, Ye. P. Zimin, et al. 11 pp. RUSSIAN, rpt, Ekspperimental'noye Issledovaniye Vliyaniya Koeffitsiyenta Izbytko Topлива na Elektroprovodnost' Produktov Sgoraniya Uglevodorodnykh Topliva s Dobavkoy Kaliya, pp 1-9. AIR/FTD/MT-24-181-68

The Measurement of the Initial Gas Temperature in a GT (Gas Turbine) Based on Indirect Parameters, by S. A. Kantor, L. V. Arsen'yev. 12 pp. RUSSIAN, per, Energomashinostroyeniye, No 12, 1963, pp 12-15. AIR/FTD/MT-23-718-68

Temperature State of Rotor and Housing of the GT-750-6 Gas Turbine, by A. L. Kuznetsov, A. A. Krinskiy, et al. 14 pp. RUSSIAN, per, Energomashinostroyeniye, No 12, 1967, pp 15-18. AIR/FTD/MT-23-717-68

Detonation of Liquid Explosive Mixtures at low Temperatures, by V. A. Letyagin, V. S. Solov'yev. 7 pp. RUSSIAN, per, Fizika Goreniya i Vzryva, Vol 3, No 3, 1967, pp 393-397. AIR/FTD/MT-23-1038-68

Testing of Aircraft Air-Breathing Jet Engines, by G. M. Gorbunov, Z. L. Solokhin. 194 pp. RUSSIAN, bk, I Pytaniya Aviatsionnykh Vozdushno-reaktivnykh Dvigatelye, 1967, pp 96-256. AIR/FTD/MT-24-236-68

On the Theoretical Analysis of the Oscillatory Propagation of a Flame in Tubes, by S. K. Aslanov. 5 pp. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 7, No 3, 1967, pp 118-120. AIR/FTD/MT-23-392-68

The Length of a Supersonic Ejector Mixing Chamber With a Zero Ejection Coefficient, by V. A. Balanin. 6 pp. RUSSIAN, per, Inzhenerno-Fizicheskiy Zhurnal, Vol 13, No 4, 1967, pp 564-567. AIR/FTD/MT-24-346-68

The Effect of Incomplete Mixing on the Efficiency of a Bypass Turbojet Engine, by Ye. D. Stan'kin. 11 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Aviatsionnaya Tekhnika, No 3, 1967, pp 75-82. AIR/FTD/MT-24-300-68

Flame Stability Conditions in Bypass Duct Combustion Chambers of a Bypass Turbojet Engine, by A. V. Talantov, V. N. Gruzdev. 9 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Aviatsionnaya Tekhnika, No 3, 1967, pp 83-88. AIR/FTD/MT-24-300-68

Research on Combustion in Flow, by A. V. Talantov. 16 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Aviatsionnaya Tekhnika, No 40, 1967, pp 55-65. AIR/FTD/MT-24-209-68

Investigation of the Operating Process of an Engine With Combustion Chamber in the Piston, by V. V. Gusev. 9 pp. RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy. Mashinostroyeniye, No 3, 1967, pp 62-67. AIR/FTD/MT-24-207-68

Aerodynamic Theory of Jets and Flames, by L. A. Vulis. 19 pp. RUSSIAN, per, Nauchno-Tekhnicheskoye Obshchestvo Energeticheskoy Promyshlennosti. Tsentral'noye Pravleniye. Sektsiya Gazifikatsii. Teoriya i Praktika Szhiganiya Gaza, Vol 3, 1967, pp 5-19. AIR/FTD/MT-24-274-68

Macrokinetic Characteristics of Turbulent Flames (Kinetic Basis of the "Pulsating Ignition Model"), by A. S. Sokolik, V. P. Karpov. 23 pp. RUSSIAN, per, Nauchno-Tekhnicheskoye Obshchestvo Energeticheskoy Promyshlennosti. Tsentral'noye Pravleniye. Sektsiya Gazifikatsii. Teoriya i Praktika Szhiganiya Gaza, Vol 3, 1967, pp 150-167. AIR/FTD/MT-24-289-68

The Mechanism of Oscillatory Combustion of a Gas, by O. G. Roginskiy. 15 pp. RUSSIAN, per, Nauchno-Tekhnicheskoye Obshchestvo Energeticheskoy Promyshlennosti. Tsentral'noye Pravleniye. Sektsiya Gazifikatsii. Teoriya i Praktika Szhiganiya Gaza, Vol 3, 1967, pp 261-271. AIR/FTD/MT-24-274-68

Analysts Discuss Hydrogenation of Gasoline, by L. N. Csipov, G. A. Berg. 6 pp. RUSSIAN, per, Neftepereabotka i Neftekhimiya, Moscow, No 2, 1969, pp 1-3. JPRS 47907

Semiconductor Control Systems for Marine Atomic Power Plants, by V. V. Pavlov. 205 pp. RUSSIAN, bk, Poluprovodnikovyye Upravlyayushchiye Ustroystva Dlya Sudovnykh Atomnykh Ustanovok, 1964, pp 1-168. FTD/MT-67-151

Rockets, Their Arrangement and Application (Chapters V and VI), by G. Ye. Lengemak, V. P. Glushko. 42 pp.

RUSSIAN, bk, Rakety ikh ustroystvo i primeniye. Moscow-Leningrad, Redaktsiya Aviatzionnoy Literatury Otdel, NKIP SSSR, Glavnaya, 1935, pp 1-102.
AIR/FTD/MT-24-308-68

Atomization of Liquids, by V.A. Borodin, Yu. F. Dityakin, et al. 310 pp.

RUSSIAN, bk, Raspylivaniye Zhidkostey, 1967, pp 1-262.
AIR/FTD/MT-24-97-68

Evolution of the Fuel-Energy Balance of the USSR During 50 Years of Soviet Rule, by A. M. Nekrasov, A. S. Pavlenko et al, 17 pp.
RUSSIAN, paper No 12, 7th World Power Conference, Moscow, 20-24 Aug 1968
AEC-Tr-6995

A "Consumptionless" Turbine? It is Possible, by A. Dobrotvorskiy. 5pp.
RUSSIAN, per, Tekhnika - Molodezhi, No 2, 1967, pp 37-37.
AIR/FTD/MT-23-415-58

The Effect of Certain Additives on the Combustion of Ammonium Nitrate, by K. K. Andreyev, A. P. Glazkova.
RUSSIAN, per, Trudy Khimiko-Tekh Inst, No 53, 1967, pp 314-321.
NTC 69-10852-218

Method of Determining the Performance of Lubricants With Additives Using the DM-I Machine With a Four Cycle Air-cooled Carburetor Engine, by V. F. Filippov, S. M. Gubarev. 29 pp.
RUSSIAN, per, Trudy VNI NP. Metody Issledovaniy Naftoy i Naftoproductov, Prisoedok, Katalizatorov i Adsorbentov, No 10, 1967, pp 266-289.
AIR/FTD/MT-24-299-68

Computation of a Diffusion Flame in a Transitional Flow Range, by Sh. A. Yershin, R. P. Rybalova, 5 pp.
RUSSIAN, per, Vestnik AN KAZSSR, No 9, 1966, pp 48-50.
AIR/FTD/MT-23-309-68

Turbomachine Nozzle Blade, by S. Ya. Osherov, V. G. Petukhov, et al. 2 pp.
RUSSIAN, Patent No. 178,827, 19 May 1964, 1966, pp 1-2.
AIR/FTD/MT-23-358-68A

Aviation Turbogenerator, by L. S. Arinushkin, R. B. Abramovich, et al. 3 pp.
RUSSIAN, Patent No. 179,131, 27 Aug 1963, pp 1-2
AIR/FTD/MT-23-273-68A

Rocket Engines, by Wen-lan Fang. 5 pp.
CHINESE, per, Hang K'ung Chih Shih, No 2, 1960, pp 6-7.
AIR/FTD/MT-23-297-68

Lubricity of Inorganic Solid Substances at High Temperatures, by Shao-li Ch'en. 7 pp.
CHINESE, per, K'uo Hsueh T'ung Pao, No 12, 1963, pp 59-61.
AIR/FTD/MT-23-294-68

A Contribution to the Determination of an Axial Compressor Stage, by J. Jerie. 13 pp.
CZECH, per, Strojirenstvi, Vol 16, No 7, 1966, pp 481-485.
AIR/FTD/MT-23-983-68

Stabilization of Natural Gas Flames by Swirl, by A. Alix, L. Leroy.
FRENCH, rpt, Inst Franc Comb Energ, 1965, pp 193-215.
NLL Ref: 9022.09 (4860)

Measurement of Heat Fluxes during the Ignition Phase of a Solid Propellant, by Monique Scagnetti, Jean Crabol.
FRENCH, per, La Recherche Aerospatiale, No 123, 1968, pp 48-61.
Dept of Navy APL/JHU T-2257

Constant-Pressure Gas Turbine with Series Connected Explosion Gas Turbine, by Georg Mangold.
GERMAN, per, Motortechnische Zeit, No 10, 1968, pp 429-431.
ACSI J-6377
FSTC-HT-23-1006-68

An Experimental Investigation of Heat Transfer in the Nozzle of High-Aluminized Solid Rocket, by Tomifumi Godai.
JAPANESE, Rpt, TR-147, 16 pp.
NASA TT F-12,106

Experimental Verification of the Correlation of Octane Number and Sensitivity of a Fuel With Its Knock Characteristics, by E. Antonelli.
ITALIAN, per, Associazione Tecnica Dell'Automobile, Nov 1968, pp 597-608.
ACSI J-6534
FSTC-HT-23-057-69

On the Accuracy of the Orbital Elements of Artificial Earth Satellites, by A. S. Sochilina.

RUSSIAN, per, Byulleten Instituta Teoreticheskoy Astronomiy, Vol 11, No 1 (124), 1967, pp 18-32.

*ACIC TC-1540

Optimum Control During Entry Into Atmosphere, by D.Ye. Okhotsinskiy, G.I. Bal'chanskiy, et al 31 pp.

RUSSIAN, per, Kosmicheskiye Issledovaniya, Vol 6, No 1, 1968, pp 31-48.

AIR/FTD/MT-24-372-68

Measurements of Radiation Effects of the American High Altitude Thermonuclear Burst Starfish Aboard the Kosmos-6 Satellite, by Yu. G. Shafer, A. D. Bolyunova, 14 pp.

RUSSIAN, per, Kosmicheskiye Issledovaniya, Moscow, Vol 7, No 6, Nov-Dec 1968, pp 877-886.

JPRS 47897

From Takeoff to Landing, by D. Nadezhdin, Ye. Ivanov. 7 pp.

RUSSIAN, np, Krasnaya Zvezda, 19 Oct 1967, p 2.

AIR/FTD/MT-23-397-68

The Automatic Station "Zond-5" Flew Around the Moon and Returned to the Earth, by A. Dimitriyev 10 pp.

RUSSIAN, np, Krasnaya Zvezda (Navy), 25 Sep 1968 Col 1-7.

AIR/FTD/MT-23-952-68

Morning of the Space Era, by Yu. Pobedonostsev, G. Nesterenko. 11 pp.

RUSSIAN, per, Kryl'ya Rodiny, No 10, 1967, pp 14-17.

AIR/FTD/MT-24-297-68

Application of a Sensitive Television System to Observation of Artificial Earth Satellites, by Ye. S. Agapov, V. F. Anisimov, et al. 5 pp.

RUSSIAN, per, Mazhdunarodnyy Kongress po Astronavtike. 15th, Varshava, 1964, Doklady, Vol 2, 1965, pp 341-343.

AIR/FTD/MT-23-1115-68

Cosmonaut-Training Program, by I. Ilin, 6 pp.

RUSSIAN, per, Nedelya, Moscow, 19 Jan 1969, pp 4-5.

JPRS 47744

Certain Problems of Satellite Orientation, by M. K. Tikhonravov, I. M. Yatsunskiy, et al. 49 pp.

RUSSIAN, mono, Osnovy Teorii Poleta i Elementy Proyektirovaniya Iskusstvennykh Sputnikov Zemli, 1967, pp 250-295.

AIR/FTD/MT-24-328-68

"ZOND-6" Takes Photographs,

RUSSIAN, np, Pravda, No 336, 1 Dec 1968. NAS/GSFC/ST-PR-10781

Perception of Space and Time in Outer Space, by A. A. Leonov, V. I. Lebedev.

RUSSIAN, bk, Vospriyatiye Prostranstva i Vremeni v Kosmose, 1968, 103 pp.

NAS/NASA/TT F-545 69

Public Use of a Satellite Station, Telex in Kuwait, 5 pp.

ARABIC, np, Akhbar al-Kuwait, Kuwait, 9 Feb 1969, p 5.

JPRS 47800

Expedition Selects Site for Satellite Observatory, by Wajdi Riyadh, 5 pp.

ARABIC, np, Al-Ahram, Cairo, 20 Feb 1969, p 3. JPRS/47822

Technical Possibilities of an Active Magnetic Attitude Control System for Spin-Stabilized Satellites, by F. Leiss.

FRENCH, rpt, 8th European Space-Flight Symposium, Venice 27-29 May 1968.

NLL Ref: 5207 (1311)

Application of the Gradient Method to the Numerical Study of Limited Power Transfers Between Near-Coplanar Circular Orbits. Comparison with Linearized Solution, by Herve Girard.

FRENCH, rpt, ONERA-NT-12.

NASA TT F-11,879

On a Model for Random Noise in Space, by Johann F. Bohme.

GERMAN, per, Archiv der Elektrischen Ubertragung, Vol 22, No 12, 1968, pp 585-590.

*Dept of Navy APL/JHU J-1283

Life-support Systems for High-Altitude Flight and Spaceflight, by J. Lipski. 195 pp.

POLISH, bk, Urzadzenia Zabezpieczajace Loty Wysokosciowe i Kosmiczne Czlowieka, 1965, pp 1-195.

AIR/FTD/MT-66-696

A System for Guidance and Simulation of the Process of Scientific Research and Development, by N. Ye. Arkhangelskiy.
RUSSIAN, paper, 1968.
*AEC/AERE

The Academy of Sciences of the USSR: A brief Account of its History and Work, by O. M. Karpenko, G. V. Kryazev, 171 pp.
RUSSIAN, bk, Akademiya Nauk SSSR (Kratkiy Ocherk Istorii i Deyatel'nosti), Moscow, 1968, 255 pp.
JPRS 47802

Modern Science and Problems of Organizing Scientific Centers, by B. Kedrov, 25 pp.
RUSSIAN, per, Arkhitektura SSSR, Moscow, No 1, 1969, pp 3-11.
JPRS 47872

Projects of Scientific Research and Design Institutes in 1969, 15 pp.
RUSSIAN, per, Arkhitektura SSSR, Moscow, No 1, 1969, pp 12-15.
JPRS 47872

Soviet Cybernetics Conference Held in Tbilisi, by O. A. Kossov, A. I. Propoy, 25 pp.
RUSSIAN, per, Avtomatika i Telemekhanika, Moscow, No 1, 1969, pp 168-183.
JPRS 47747

Icing in the Zavitaya - Bureya Section, by A. P. Tarbeyev.
RUSSIAN, bk, Bor'ba s Naledami na Zheleznykh Dorogakh - Transport, No 7, 1966, pp 11-13.
ACSI J-6555
FSTC-HT-23-555-68

Structure of Differential Games, by B. N. Pshenichnyy, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Moscow, Vol 184, No 2, 1969, pp 285-287.
JPRS 47845

General Concave-Convex Games, by N. T. Tynyanskiy, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Moscow, Vol 184, No 2, 1969, pp 303-306.
JPRS 47845

Soviet-Czech Scientific, Technical Cooperation, by L. Rahiga, 5 pp.
RUSSIAN, per, Ekonomicheskaya Gazeta, Moscow, No 7, Feb 1969, p 41.
JPRS 47774

From a Scientific Heritage, by F. A. Tsander.
RUSSIAN, bk, Iz Nauchnogo Naslediya, 1967, 92 pp.
NAS/NASA/TT F-541 69

Roster of Recipients of State Prizes of the USSR in the Field of Science and Technology for 1968, 5 pp.
RUSSIAN, np, Izvestiya, Moscow, 7 Nov 1968, p 3.
JPRS 47629

Large Range Mixture Sediment Movement and Discharge Shadowing and Self Pavement Effects, by I. V. Eglazovarov, 16 pp.
RUSSIAN, per, Izvestiya Akademii Nauk Armianskoi SSR. Seriya Tekhnicheskikh Nauk, Vol 17 No 2, 1964, pp 29-44.
*CRSTI TT 69-53031

1967 Report by Tadzhik Academy of Sciences Biology Department, by V. N. Lukin, 8 pp.
RUSSIAN, per, Izvestiya Akademii Nauk Tadzhik SSR, No 3, 1968, pp 119-123.
JPRS 47628

New Organization of Materials Accounting, by G. Shapiro, 7 pp.
RUSSIAN, per, Material'no-Tekhnicheskoye Snabzheniye, Moscow, No 2, 1969, pp 67-71.
JPRS 47935

Development of Ukrainian Academy Reviewed, by V. Gutyrya, 7 pp.
RUSSIAN, np, Pravda Ukrainy, Kiev, 12 Feb 1969, p 3.
JPRS 47833

Latvian Academy Discusses Plans at Meeting, 6 pp.
RUSSIAN, np, Sovetskaya Latvija, Riga, 28 Feb 1969, p 1.
JPRS 47883

Lithuanian Academy of Sciences Plans for 1969, 6 pp.
RUSSIAN, np, Sovetskaya Litva, Vil'nyus, 26 Feb 1969, p 3.
JPRS 47883

Scientific, Technical Societies Anniversaries Near, by Nikola Ivanov, 7 pp.
BULGARIAN, per, Khidrotekhnika i Melioratsii, Sofia, No 10, 1968, pp 289-290.
JPRS 47737

Scientific
Miscellaneous (Contd)

A Simple Two-Layer Model and its Extension, by
Liao Tung-Hsien.
CHINESE, per, Ch'i-Hsiang Hsueh-Pao, Vol 29,
No 3, 1958, pp 162-175.
NLL Ref: 9021.7 (4)

Parametric Study of the Niobesil c. Harmony,
by B. Barre.
FRENCH, rpt, CEA-N-1022, Nov 1968.
*AEC/ORNL

Various Methods for the Assessment and Planning
of Daylighting, by J. Wegner.
GERMAN, per, Lichttechnik, Vol 12, No 10, 1960,
pp 555-559.
NLL Ref: 5196 (1416)

Save Coal, but How?
GERMAN, per, Die Wärme, Vol 67, No 4/5,
1944, pp 73-76.
NLL Ref: 5828.4F (M:13027)

Sliding Friction of Ice as a Relaxation Effect,
by H.H. Schulz, A. Knappwost. 18 pp.
GERMAN, per, Wear, No 11, 1968, pp 3-20.
NAV/NIC/Tran-2821-69

Traits of Hungarian Research Development Noted,
by Albert Konya, 10 pp.
HUNGARIAN, rpt, Magyar Tudomány, Budapest, Feb
1969, pp 57-64.
JPRS 47676

Seaman.
NORWEGIAN, rpt, No 3, 9th annual, 1957, by
Shipowners Association of Norway. Radhusgaten
25-Oslo.
NAV/NOO contract trans 17

Polish Academy of Sciences General Assembly
Meets, by E. ... 6 pp.
POLISH, per, Nauka Polska, Warsaw, No 4, 1968,
pp 123-127.
JPRS 47757

Main Qualifying Commission Approves Degrees, by
A. Strus, 6 pp.
POLISH, per, Nauka Polska, Warsaw, No 4, 1968,
pp 128-131.
JPRS 47757

Guatemalan Labor Party Sums Up 1968, Plans
1969, 5 pp.
SPANISH, per, Grito Popular, Guatemala City,
Jan 1969, pp 1a, 2a, 6a.
JPRS 47820

Scientific
Miscellaneous (Contd)

Banking System Leads to National Bankruptcy,
5 pp.
SPANISH, np, Izquierda, Montevideo, 7 Mar 1969,
p 6.
JPRS 47820

Cuban Academy President Notes Scientific
Advance, by Enrique Gonzalez Manet, 7 pp.
SPANISH, np, El Mundo, Havana, 25 Feb 1969,
p 2.
JPRS 47820

Science Conference Held in Nam Ha Province, 5 pp.
VIETNAMESE, rpt, Tin Tuc Hoat Dong Khoa Hoc, Hanoi,
Dec 1968, pp 46-48.
JPRS 47827

INFORMATION RECEIVED DURING
MAY
ON COVER-TO-COVER TRANSLATIONS

Acta Biochimica Polonica, Vol 15, No 4, 1968.
CFSTI TT 68-50009/4

Acta Medica Jugoslavica, Vol 21, No 2-3, 1967.
CFSTI TT 67-58021/2-3

Acta Physiologica Polonica, Vol 19, No 2, 1968.
CFSTI TT 68-50008/2

Acta Physiologica Polonica, Vol 19, No 3, 1968.
CFSTI TT 68-50008/3

Acta Polonica Pharmaceutica, Vol 25, No 3, 1968.
CFSTI TT 68-50003/3

Acta Polonica Pharmaceutica, Vol 25, No 4, 1968.
CFSTI TT 68-50003/4

Archivum Immunologiae Et Therapiae Experimentalis,
Vol 16, No 5, 1968.
CFSTI TT 68-50005/5

Archivum Immunologiae Et Therapiae Experimentalis,
Vol 16, No 6, 1968.
CFSTI TT 68-50005/6

Arhiv Za Poljoprivredne Nauke, Vol 21, No 72, 1968.
CFSTI TT 68-50057/1

Arhiv Za Poljoprivredne Nauke, Vol 21, No 73, 1968.
CFSTI TT 68-50057/2

Astrofizika, Vol 3, No 1, 1967.
The Faraday Press

Astrofizika, Vol 3, No 2, 1967.
The Faraday Press

Avtomatika i Telemekhanika, No 9, 1968
CB

Avtomatika i Telemekhanika, No 10, 1968.
CB

Biokhimiya, Vol 33, No 3, Pt 2, May-June 1968.
CB

Biokhimiya, Vol 33, No 4, Pt 1, July-August 1968.
CB

Byulleten Izobret, October 1968 - See I-Chemical
See II-Electrical
See III-Mech & Gen
Derwent Publications, Ltd.

Denki Gakkai Zasshi, Vol 83, No 9, 1968.
IEEE

Denshi Tsushin Gakkai Ronbunshi, Vol 51, No 6, 1968.
IEEE

Doklady Akademiy Nauk SSSR, Vol 182, No 1-3,
September 1968.
CB

Doklady Akademiy Nauk SSSR, Chem, Vol 182, No 4-6,
October 1968.
CB

Doklady Akademiy Nauk SSSR, Physics, Vol 182,
No 4-6, October 1968.
The Am Inst of Phys
Vol 13, No 10, April 1969

Glasnik Hemijskog Drustva - Beograd, Vol 32, No 1,
1967.
CFSTI TT 67-58015/1

Doklady Akademiy Nauk SSSR, Vol 183, No 1-6, 1968.
The Am Math Soc
Vol 9, No 6, Nov-Dec, 1968

Glasnik Hemijskog Drustva - Beograd, Vol 32,
No 2-3-4, 1967.
CFSTI TT 67-58015/2-3-4

Elektrokhimiya, Vol 4, No 8, 1968.
CB

Izvestiya Akademiy Nauk SSSR, Atmosfery i
Okeanologicheskii, Vol 4, No 10, 1968.
The American Geophysical Union

Elektrokhimiya, Vol 4, No 9, 1968.
CB

Izvestiya Akademiy Nauk SSSR, Atmosfery i
Okeanologicheskii, Vol 4, No 11, 1968.
The American Geophysical Union

Elektrokhimiya, Vol 4, No 10, 1968.
CB

Izvestiya Akademiy Nauk SSSR, Fizika Zemli, No 10,
1968.
The American Geophysical Union

Elektrosvyaz, Vol 22, No 10, Pt 1, 1968.
IEEE

Izvestiya Akademiy Nauk SSSR Metally, No 1, 1968.
The Scientific Information Consultants Ltd.

Elektrosvyaz, Vol 22, No 11, Pt 1, 1968.
IEEE

Izvestiya Akademiy Nauk SSSR Okeanologiya, Vol 8,
No 2, 1968.
The American Geophysical Union

Endokrynologia Polska, Vol 19, No 1-2, 1968.
CFSTI TT 68-50007/1-2

Izvestiya Akademiy Nauk SSSR Okeanologiya, Vol 8,
No 3, 1968.
The American Geophysical Union

Fizika Tverdogo Tela, Vol 10, No 10, 1968.
The Am Inst of Phys
Vol 10, No 10, April, 1969.

Izvestiya Akademiy Nauk SSSR Okeanologiya, Vol 8,
No 4, 1968.
The American Geophysical Union

Folia Morphologica, Vol 27, No 3, 1968.
CFSTI TT 68-50002/3

Izvestiya Akademiy Nauk SSSR, Seriya Fizicheskaya,
Vol 32, No 4, 1968.
Columbia Technical Translations

Geologiya Nefti i Gaza, Vol 7, No 11, 1963.
Petroleum Geology

Kinetika i Kataliz, Vol 9, No 3, Pt 2,
May-June, 1968.
CB

Geologiya Nefti i Gaza, Vol 7, No 12, 1963.
Petroleum Geology

Kinetika i Kataliz, Vol 9, No 4, Pt 1,
July-August, 1968.
CB

Larus, Vol 16-18, 1962-1968.
CFSTI TT 67-58044

Lijećnicki Vjesnik, Vol 90, No 4, 1968.
CFSTI TT 68-50051/4

Lijećnicki Vjesnik, Vol 90, No 5, 1968.
CFSTI TT 68-50051/5

Lijećnicki Vjesnik, Vol 90, No 6, 1968.
CFSTI TT 68-50051/6

Medycyna Doswiadczalna i Mikrobiologia, Vol 20,
No 2, 1968.
CFSTI TT 68-50004/2

Medycyna Doswiadczalna i Mikrobiologia, Vol 20,
No 3, 1968.
CFSTI TT 68-50004/3

Okeanologiya, Vol 8, No 4, 1968.
The American Geophysical Union

Optika i Spektroskopiya, Vol 25, No 4, Oct, 1968.
The Optical Society of America

Polskie Archiwum Medycyny Wewnetrznej, Vol 39,
No 5(11), 1967.
CFSTI TT 68-50006/5
Vol 7, No 5, 1968

Polskie Archiwum Medycyny Wewnetrznej, Vol 23,
No 13, 1968.
CFSTI TT 68-50006/6
Vol 7, No 6, 1968

Polski Przegląd Radiologii i Medycyny Nuklearnej,
Vol 32, No 2, 1968.
CFSTI TT 68-50001/2

Polski Przegląd Radiologii i Medycyny Nuklearnej,
Vol 32, No 3, 1968.
CFSTI TT 68-50001/3

Pribory i Tekhnika Eksperimenta, No 4,
July-August, 1968.
CB

Pribory i Tekhnika Eksperimenta, No 5, Sept-Oct,
1968.
CB

Radiotekhnika, Vol 23, No 10, Pt 2, 1968.
IEEE

Radiotekhnika, Vol 23, No 11, Pt 2, 1968.
IEEE

Rudarsko-Metalurski Zbornik, No 2, 1968.
CFSTI TT 68-50059/2

Savremena Poljoprivreda, Vol 15, No 9-10, 1967.
CFSTI TT 67-58014/9-10

Savremena Poljoprivreda, Vol 15, No 11, 1967.
CFSTI TT 67-58014/11

Savremena Poljoprivreda, Vol 15, No 12, 1967.
CFSTI TT 67-58014/12

Savremena Poljoprivreda, Vol 16, No 2, 1968.
CFSTI TT 68-50058/2

Savremena Poljoprivreda, Vol 16, No 3, 1968.
CFSTI TT 68-50058/3

Tekhnika i Vooruzheniye, No 10, 1968.
ACSI J-5962

Tekhnika i Vooruzheniye, No 1, 1969.
ACSI J-6240

Tekhnika i Vooruzheniye, No 4, 1969.
*ACSI J-6735

Tsvetnye Metally, Vol 40, No 8, 1967.
Primary Sources
Vol 8, No 8, 1967

Vestnik Protivovozdushnoy Oborony, No 4, 1968.
*ACSI J-6740

Vestnik Protivovozdushnoy Oborony, No 9, 1968.
*ACSI J-6738

Vestnik Protivovozdushnoy Oborony, No 10, 1968.
*ACSI J-6739

Voyenno Meditsinskiy Zhurnal, No 3, 1969.
*ACSI J-6696

Voyennyy Vestnik, No 11, 1968.
ACSI J-6156

Voyennyy Vestnik, No 2, 1969.
*ACSI J-6530

Voyennyy Vestnik, No 4, 1969
*ACSI J-6734

Vysokomolekulyarnye Soyedineniya, Vol 10, No 4,
1968.
Pergamon Press

Yadernaya Fizika, Vol 7, No 5, 1968.
The Am Inst of Phys
Vol 7, No 5, November, 1968.

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki,
Vol 54, No 6, 1968.
The Am Inst of Phys
Vol 27, No 6, Dec, 1968

Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki,
Vol 55, No 1, July, 1968.
The Am Inst of Phys
Vol 28, No 1, 1969

Zhurnal Eksperimental'noy Teoreticheskoy Fiziki
JETP Pis'ma Redaktsiyu, Vol 9, No 1, 5 Jan 1969.
The Am Inst of Phys

Zhurnal Eksperimental'noy Teoreticheskoy Fiziki
JETP Pis'ma Redaktsiyu, Vol 9, No 2, 20 Jan, 1969.
The Am Inst of Phys

Zhurnal Eksperimental'noy Teoreticheskoy Fiziki
JETP Pis'ma Redaktsiyu, Vol 9, No 3, 5 Feb 1969.
The Am Inst of Phys

Zhurnal Eksperimental'noy Teoreticheskoy Fiziki
JETP Pis'ma Redaktsiyu, Vol 9, No 4, 20 Feb, 1969.
The Am Inst of Phys

Zhurnal Obshchey Khimiy, Vol 38, No 8, 1968.
CB

Zhurnal Obshchey Khimiy, Vol 38, No 9, 1968.
CB

Zhurnal Prikladnoy Khimiy, Vol 41, No 7, 1968.
CB

Zhurnal Prikladnoy Khimiy, Vol 41, No 8, 1968.
CB

Zhurnal Tekhnicheskoy Fiziki, Vol 38, No 10, 1968.
The Am Inst of Phys
Vol 13, No 10, April, 1969

ACTA BIOCHEMICA POLONICA
Vol 15, No 4, 1968

J. Zajac, Phosphorylation of protein in liver and kidney mitochondria of the rat	307
Barbara Mazur and J. Buchowicz, Purification and properties of dihydro-orotase from pea plants	317
Barbara Mazur and J. Buchowicz, Dihydropyrimidinase of pea plants. Purification and properties	327
Ch. Zimmer and W. Szer, Interaction of copper(II) ions with polycytidylic acid and its methylated derivatives	339
Lidia Paś and Konstancja Raczynska-Bojanowska, On the inhibition mechanisms of viomycin synthesis by inorganic phosphate	355
Krystyna Bobrzecka, W. Ostrowski and Janina Rybarska, The effect of iodination on the activity and structure of acid phosphomonoesterase from human prostate	369
Eleonora Wiczorek and Wanda Mejbbaum-Katzenellenbogen, Sulphosalicylic acid-soluble proteins and their distribution in subcellular fractions of rabbit kidney	381
Books reviewed	R17

Available From CFSTI TT 68-50009/4

ACTA MEDICA YUGOSLAVICA
Vol. 21, No 2-3, 1967

	Page
<i>L. Kallar, N. Hadžić, V. Županić, R. Uchytíl, and S. Audy:</i> Percutaneous Liver Biopsy	5
<i>B. S. Đoracević, R. Novaković, V. Bošnjaković, I. Lambić, and P. Milutinović:</i> The Value of Studying Plasma Triolein-1 st Capacity in Patients with Coronary Heart Disease	21
<i>M. V. Nešković, J. J. Bojanović, Lj. S. Stefanović, M. O. Corbić, Z. B. Čupić, and R. V. Živković:</i> Metabolic Relations of Proteins, Lipids and Glucides. V. The Effect of Intravenous Infusion of Glucose on Plasma Fatty Acids in Dogs in Fasting and in Hyperlipemia	27
<i>M. Fišer-Herman, M. Adamčić, and N. Urbas:</i> Chemical Analysis of Dermal Tissue in a Lethal Case of Panniculitis	37
<i>B. Rotović, R. Vlajnić, R. Živković, I. Kulić-Japundžić, and M. Japundžić:</i> Phosphoprotein Phosphatase Activity in the Rat Liver During Regeneration . .	45
<i>D. S. Đurić, J. V. Mičić, and Z. Perišić:</i> Lipidogram in Patients with Hypothyroidism	51
<i>G. Efremov, H. Duma, A. Sadikario, M. Andreeva, B. Mladenovski, and G. Petkov:</i> A Variant of Abnormal Hemoglobin D	57
<i>B. Brzin:</i> Spheroplasts of Klebsiella Pneumoniae in Human Material and in vitro . . .	65
<i>S. Popović, O. Piletić, and N. Unković:</i> Experimental Induction of Heteropic Bone in the Wall of the Guinea-Pig Urinary Bladder	71
<i>Z. Čupić, I. Japundžić, R. Živković, B. Knežević, and M. Japundžić:</i> Arginase Activity During Regeneration of Inner Organs	81
<i>D. Mršević, M. Japundžić, S. Stefanović, and B. Knežević:</i> The first Signs of Cell Function in Certain Organs and Tissues During Intra-uterine Development	89
<i>S. S. Harisijades, and B. S. Harisijades:</i> Comparative Isolation of Tric Agents in the Yolk Sacs and Amniotic Cavities of Chick Embryos	99

Available From CFSTI TT 67-58021/2-3

ACTA PHYSIOLOGICA POLONICA
Vol 19, No 2, 1968

	Page
<i>M. Szereda-Przestaszewska: Studies on Neural Control of the Airway Caliber</i>	141
<i>K. Butuk, M. Czokato, M. Malofiejew, T. Januszko: Generation of Kallikreins in the Blood Plasma</i>	154
<i>E. Miętkiewicz, B. Kośmicki: Influence of Ultraviolet Rays on the Activity of the Reticulo-Endothelial System in Rabbits</i>	165
<i>E. Miętkiewicz, B. Kośmicki, K. Naroznik: Influence of Ultraviolet Rays on the Erythrocyte Count and Lifespan in Rabbits</i>	171
<i>S. Ziemiański, M. Wartonowicz, M. Dentyniecka, A. Szczypiel: Absorption of Folic Acid in Various Segments of the Alimentary Tract</i>	179
<i>R. Bernat: Contribution of Adrenergic and Cholinergic Mediator, and of 5-Hydroxytryptamine to the Regeneration of Corneal Epithelium</i>	187
<i>R. Bernat, K. Bombicki: Changes in the Concentration of Glutathione, Ascorbic Acid and Amino Acids with Sulfhydryl Groups in Experimental Cataract</i>	197
<i>J. Malarecki: Effect of the Voluntary Lung Hyperventilation on Reflex Changes in the Respiratory Function</i>	205
<i>B. Nagórna-Stasiak: Effect of Neurohormones on the Motor Function of the Alimentary Tract in Domestic Animals</i>	212
<i>W. Tyburczyk, J. Borkowska, T. Wesolowski: Effect of Low-Frequency Mechanical Vibrations Upon Proline and Hydroxyproline Excretion in Rats</i>	223
<i>M. Sanecka-Obacz: Investigations on the Effect of Hydrocortisone on Collagen Metabolism in Experimental Animals. I. Urinary Excretion of Hydroxyproline in Rats After Prolonged Administration of Hydrocortisone</i>	229
<i>P. Kubikowski, W. Kostowski: Structure-Function Relationship Towards Cardio-Vascular System of Some Derivatives of Pirydylethylisoquinoline Group</i>	237
<i>A. Chodera, J. Godlewski, I. Grzmislawska, T. Wójcik: Comparative Study on the Tolerance to Some Analgetic Narcotics</i>	247
<i>I. Malecki, B. Borkowska, L. Krzywosiński, O. Malinowska: Influence of Chemical Spreading Depression on the Formation of Experimental Gastric Ulcers in Rats</i>	257
<i>I. Janczarski, A. Krok, B. Urbank: Enzymatic Hydrolysis of Glycolcholine Thioglycolcholine Chlorides and Dithiodiglycol-bis-choline Dichloride</i>	267
<i>J. Berner: Cardiac Output and Total Peripheral Vascular Resistance in Normal Dogs</i>	263

Available From CFSTI TT 68-50008/2

ACTA PHYSIOLOGICA POLONICA
Vol 19, No 3, 1968

	Page
A. Niechaj: Effect of Removal of the Telencephalon on the Slow Rhythm of Pulmonary Respiration in the Frog	269
T. E. Wróblewski: Cobalt as a Factor Modifying the Cholesterol Esterase Activity in the Blood Serum	280
R. Kobza: Effect of an Antihistaminic Drug on Blood Histamine Concentration and Hemodynamic Changes in Human Individuals under Conditions of High Ambient Temperature	288
M. E. Jurczak: Effect of Vibration on ³⁵ S Methionine Metabolism in the Central Nervous System	296
M. Sanecka-Obacz: Studies on the Effect of Hydrocortisone on Collagen Metabolism in Experimental Animals. II. Collagen Content in Rat Tendons after prolonged Administration of Hydrocortisone	302
J. Borkowska, W. Tyburczyk: Effect of Dosed Physical Effort on Excretion of Donaggio-Positive Substances	308
J. Grzybowski, M. Szubiński, K. Czyżewski Jr., B. Goering-Swiercz: Haptoglobins in Experimental Traumatic Shock	313
A. Gabrylewicz, J. Popow, B. Musiatowicz, M. Paprocki: Behavior of Nonspecific Phosphatases in the Liver during Acute Experimental Pancreatitis in Dogs	319
A. K. Gajewski, J. Raczynska-Gajewska, T. Majle, J. Krawczyński: Effect of γ Radiation on the Activity of Plasma Alkaline Phosphatase	326
R. Kulesza: Effect of Neurohormones on CO ₂ Secretion and Carbohydrate Metabolism in Acute Radiation Disease in Rats	332
B. Turczyński: Rheological Properties of Standard Aqueous Solutions of Protein Fractions of Human Blood Serum	343
S. Rotenberg, A. Czajczyńska: Effect of Erythrocytes on the Estrification of Blood Serum Cholesterol in Vitro	353
Z. Ewy, J. Rząsa: Effect of Vasotocin and Oxytocin on Contractility of the Oviduct and on Blood Pressure in the Hen	359
E. Rucińska: Novel Aspects of the Myotropic Effect of Sympathomimetic Amines	368
W. Chojnowski: Studies on the Effect of Tetracycline and its Derivatives on the Blood Serum Protein System in Rabbits	379
I. Malecki, M. Bogdal, W. Kowalczyk: Spontaneous Motor Activity of White Rats in Relation to Sex and Age	387
Z. Kaleta, A. Mikulski: Use of Tritiated Water (HTO) in Metabolic Studies	394
S. Lipski, T. Pałko, M. Godlewski: Photoplethysmographic Method for Measuring the Arterial Blood Pressure and Pulse Rate in Rats	400
Proceedings of the Polish Physiological Society	404

Available From CPSTI TT 68-50008/3

ACTA POLONIAE PHARMACEUTICA
Vol 25, No 3, 1968

S. Biniński, W. Modrzejewska: Synthesis of 2-[β -Pyridyl]-ethyl]-quinolines and 2-[β -(Piperidyl)-ethyl]-perhydroquinolines	211
W. Dymek, R. Zimon: Studies on Pyrimidine Derivatives	219
M. Lorenz, D. Prelica, L. Wyzgowska: Synthesis of Asymmetrically Substituted Malonamides. Part II	230
J. Kotler-Braytburg: Investigation of Antiserotonin Compounds in the Group of Quinoline Derivatives IV. Oximes of 3-Formyl-6-aminoquinoline and β -(6-Amino-3-quinolyl)-acrylaldehyde	238
J. Kotler-Braytburg, H. Marciszewski: Investigation of Antiserotonin Compounds in the Group of Quinoline Derivatives. V. Spectrophotometric Investigation in the Infrared Region of Reduction Products of Oximes of 3-Formyl-6-nitroquinoline and β -(6-Nitro-3-quinolyl)-acrylaldehyde	245
B. Gogolińska: N-Substituted Derivatives of 2-Piperidone. Part I	250
J. Picchaczek, B. Gogolińska: N-Substituted Derivatives of 2-Piperidone. Part II	256
J. Cieślak, B. Wasilewa, I. Busko, J. Sierankiewicz: Semisynthetic Penicillins. IV. A New Method of Synthesis of Ampicyllin	261
J. Cieślak, B. Wasilewa, D. Roślik: Semisynthetic Penicillins. V. The Amino-oxy Analogue of Ampicyllin	266
D. Małysz: Application of Schöniger's Method for the Determination of Fluorine, Phosphorus and Sulfur in Pharmaceutical Preparations	271
F. Modrzejewski, M. Gałczyńska: Studies on the Stability of Sterilized Oils	281
T. Smażyński, L. Krówczyński: Application of Soluble Tablets for Preparing Eye Lotions	289
B. Chodkowska-Graniczka, L. Krówczyński: Effect of Tenzides on some Properties of Tablets. I. Tablets Containing Hydrophobic Substances	298
R. Adamski, R. Dobrucki: Application of Thin-layer Chromatography for the Determination of Vitamin A Palmitate in Ointment Bases Containing Anhydrous Lanoline	305
C. Bańkowski, M. Trumpowska: Investigation on Volatile Oil of Mugwort (<i>Artemisia vulgaris</i> L.), Obtained in Different Periods of the Year	311
M. Trumpowska, Z. Olszewski: Chromatographic Analysis of Volatile Oils of Mugwort (<i>Artemisia vulgaris</i> L.), Obtained in Different Periods of the Year	317
K. Myszkowska, J. Tauff, S. Tuszyńska: Studies on Bacterial Cultures and Evaluation of Their Applicability after Lyophilisation for Microbiological Assays of Vitamins and Amino Acids	329
W. Lasota, W. Fortak: Studies on <i>Parillus involutus</i> Batsch, Fr. IV. Studies of Acute Toxicity of the Extract and the Extracted Residue	339
H. Wolny: Effect of Oxotremorine on the Response of Testicle Excretory Duct to the Electric Stimulation of Hypogastric Nerve	347
SCIENTIFIC COMMUNICATIONS	
T. Cieszyński: Separation of Vegantin from Pyramidone, Dial and Luminal in Preparations: Vegantalgin and Vegantophen, by Means of Thin-Layer Chromatography	352
W. Grabowicz: Determination of Nifenazon with Chloramine T	355
LETTER TO THE EDITOR	
M. Kostolowska, E. Kocwa, L. Krówczyński: Correlation Between the Chemical and Microbiological Assays of the Decay of Chloramphenicol in Eye-Drops	358

Available From CPSTI TF 68-50003/3

ACTA POLONIAE PHARMACEUTICA
Vol 25, No 4, 1968

S. Bintecki, I. Horowska: Synthesis of 1-(β -(Pyridyl)-ethyl)-isoquinolines and 1-[β -(Piperidyl)-ethyl]-1,2,3,4-Tetrahydroisoquinolines	344
M. Moll: Syntheses in the Quinaldine Group. I. N,N'-Polymethylenediamines of bis (Quinaldic Acid) and bis (4-Hydroxy quinaldic Acid)	344
W. Dymek, Z. Ryżewski: Studies in Pyrazole Derivatives. IV. Synthesis and Investigation of 6H,7H-Pyrazolo-(3,2-b)-1,2,4-thiadiazole Derivatives	376
J. Kotler-Bratburg: Investigation of Antiserotonin Compounds in the Group of Quinoline Derivatives. VI. Amides of 3-Quinolincarboxylic acid and 3-Quinolylacetic Acid	381
B. Gogolimska: N-Substituted Derivatives of 2-Pyridone	391
B. Gogolimska: N-Substituted Derivatives of 5-Chloro-2-pyridone and 3,5-Dichloro-2-pyridone	397
W. Sobieczewski, J. Cieślak, A. Waszkiewicz, W. Chojnowski: Derivatives of Viomycin. I. Preparation and Properties of Viomycin Nicotinate and Isonicotinate	403
W. Sobieczewski, J. Cieślak, W. Chojnowski, A. Waszkiewicz, H. Cendrowska: Derivatives of Viomycin. II. Preparation and Properties of Some Viomycin Penicillinates	406
S. Bitny-Szlachto: Quantitative Paper Chromatography of 2-Aminethiazoline (2-AT), and its Application for Assaying the Transformations of S-Aminoethylisothiuronium Bromide Hydrobromide (AET)	411
J. Derlikowski, A. B. Narbutt-Mering, W. Węglowska: Detection of Degradation Products of Some Derivatives of Barbituric Acid Containing an Unsaturated Substituent	420
J. Grabowska: The Chromatographic Assays of Diethylaminoethyl Acetylsalicylate (Edan)	425
W. Wiśniewski, T. Gorta: Chromatographic-fluorometric Micromethod for Determination of Hydrastine and Hydrastinine in Fluidextracts and in Rhizome of <i>Hydrastis Canadensis</i> L.	429
H. Nerlo, W. Polak: Stabilization of Vitamin Drugs. Part III. Effect of Sterilization on Stability of Injection Solutions with Vitamin D ₂	438
L. Krówczyński, K. Kotarski, K. Stachura: Study of the Relationship between the Disintegration Time of Tablets and Some Properties and the Way of Adding Disintegrators	443
B. Chodkowska-Graniczka, L. Krówczyński: Effect of Tensides on Some Properties of Tablets. II. Tablets Containing Hydrophilic Substances	449
J. Kołodziejcki, I. Łuczkiwicz, A. Mruk-Łuczkiwicz: Anatomical Structure of Above-ground Parts of <i>Cirsium oleraceum</i> (L.) Scop., Compositae Family	454
L. Steckla: Attempts at Identification of the Saponosides of Polemoniads	464

LETTER TO THE EDITOR

E. Wójcik: Investigation of the Methanolic Extract of the Herb of <i>Veronica officinalis</i> L.	472

Available From CFSTI TT 68-50003/4

ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS
Vol 16, No 5, 1968

	Page
TADEUSZ M. LACHOWICZ: New Types of Respiratory Deficient Mutants in <i>Saccharomyces Cerevisiae</i> . I. Segregational Mutant with Ineffective Respiration	693
KRYSPINA GRZYBEK-HRYNCEWICZ and ELŻBIETA PODOLSKA: The Influence of Polyvinyl Alcohol, Polyvinylpyrrolidone, Ficoll and Dextran on Phagocytosis	702
ZOFIA RUDZKA-KANTUCH: Phagocytic Activity of Leukocytes in Liver Diseases	709
JADWIGA LAJOSI: The Influence of the Autonomic Nervous System on Phagocytosis. III. Changes Caused by Stimulation of the Parasympathetic System by Carbaminocoline	722
KRZYSZTOF SCHNEIDER, ANTONI JONECKO, STANISŁAW SZYMAMIEC and WIESŁAWA BARTNIKOWA: Survival of Lethally Irradiated Mice Transfused with Living Phytohemagglutinin-Stimulated Syngeneic Thymocytes	732
DANUTA SCHLESINGER: The Inv(1) Factor in the Polish Population	742
ALICJA RYZEWSKA and MAREK DĄBROWSKI: The Role of the Thymus in the Pathogenesis of Adjuvant-Induced Polyarthritis in Rats	747
HENRYK MATEJ: Hemagglutinating Antibodies after Skin Transplantation in Rabbits	757
JERZY GIELDANOWSKI, ALICJA PELCZARSKA and ZBIGNIEW MICHAŁSKI: Studies on the Mechanism of Immunotropic Action of Neuroplegic Drugs	773
ALICJA PELCZARSKA and JERZY GIELDANOWSKI: Studies on the Mechanism of Hypersensitivity Induced by <i>H. Pertussis</i> Vaccine. I. The Influence of the Adrenal Glands on Toxicity of Mediators of Early Hypersensitivity	780
JANUSZ PATKOWSKI and WIESŁAW PRĄSTOWSKI: Effect of Drugs Influencing Metabolism on Some Immunologic Reactions	785
JANUSZ BIELAWSKI and STEFAN MISTERKA: Permeation of Streptomycin into Healthy and Inflammatory Bone in the Rabbit after a Single Dose	792
ZBIGNIEW RZUCIŁO and HENRYK STARZYK: Some Biologic and Metabolic Properties of the 186th Passage of Mouse Chrysoidin Hepatoma	796
BOGUSŁAW BOBRAŃSKI, MARIAN MORDARSKI, ALICJA PELCZARSKA and JULIAN POMORSKI: The N-Oxides of Some Sulfonamide Compounds	804
WANDA MEJBAUM-KATZENELLENBOGEN, JÓZEF ŁOMAKO and CHRISTIAN MASKOS: Polypeptides and Glycoproteins of Skeletal Muscle	817
WIESŁAW PRĄSTOWSKI: On the Central Action of Alkyl Derivatives of Butyrolactone	827
MIECZYSLAW KONIECZNY: Studies on Reactions of Barbituric Acid Derivatives. II. Stereoisomers of 1-Methyl-5-Allyl-5-(2'-Aminopropyl)-Barbituric Acid and Related Compounds	837
ALEKSANDER BUDZISZEWSKI: On the Usefulness of Some Cation Exchangers for Sorption of Pyrogenic Substances in the Sodium Cycle	850

Available From CPSTI TT 68-50005/5

ARCHIVUM IMMUNOLOGIAE ET THERAPIAE EXPERIMENTALIS
Vol 16, No 6, 1968

TADEUSZ LACHOWICZ and ZYGMUNT WALCZAK: Purification and Properties of Staphylococcal A	855
JANINA KWIATKOWSKA and MARIAN MULCZYK: Studies on the Mechanism of Fimbrial Hemagglutination	864
ISAAK M. GABRILOVICH, S. I. LUKELYEVA, W. S. POLUPANOV and S. B. STEFANOV: Molecular Structure of <i>Klebsiella</i> Phages and their Specificity	870
ISAAK M. GABRILOVICH, N. V. BATURICKAYA, N. I. ANISIMOVA, A. A. KUKULIANSKI and W. S. POLUPANOV: Studies on Lysogeny of <i>Klebsiella</i> Bacilli	881
MIECZYSLAW METZGER and JADWIGA PODWINSKA: A Study of the Heat-Labile Antigen of <i>Treponema Pallidum</i>	888
BOLESŁAW SEMCZUK, STANISŁAW KLONOWSKI, BENEDYKT DYLEWSKI and ZYGMUNT HENCNER: Epidemiologic Studies on the Occurrence of Rhinoscleroma	895
ZBIGNIEW RUCZAJ: Sensitivity of Microorganisms to Antibiotics Produced by them	902
JERZY GIELDANOWSKI and ALEKSANDER ŻAK: Studies on the Action of Mineralotropic Drugs on the Transplantation Reaction	910
JERZY GIELDANOWSKI and ALICJA PELCZARSKA: Studies on the Role of Histamine and Serotonin in Graft Rejection	915
BOŻENA HAGER-MAŁECKA, ZBIGNIEW SZCZEPANSKI and ALICJA KOBIEŃSKA-SZCZEPANŃSKA: Determination of β_2 Globulin in the Blood Serum of Children with Diseases of the Kidneys	921
JANINA KWIATKOWSKA, JANINA BOGUSŁAWSKA-JAWORSKA and TADEUSZ BARANOWSKI: Studies on Glycolysis of Erythrocytes in Childhood Anemias. III. Hemolytic Aplastic and Hypoplastic Anemias and Reticuloendothelioses	927
DANUTA SCHLESINGER and KRYSZYNA CYGANER: Transferrin Types in Cattle of Polish Races	935
MAREK ŁAWIŃSKI: The Influence of Halothane and Diethyl Ether on γ -Glutamyl Transpeptidase Activity in the Liver in Rats	942
MARIAN ORŁOWSKI, ANDRZEJ SZCZEKLIK and BARBARA NARCZEWSKA: Determination of Aminopeptidase A Activity in the Serum	949

Available From CFSTI TT 68-50005/6

ARHIV ZA POLJOPRIVREDNE NAUKE
Vol 21, No 72, 1968

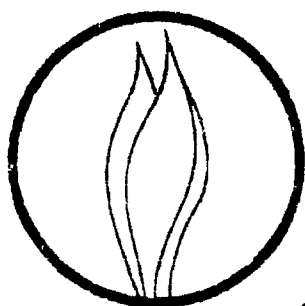
	Page
L. Stojković, B. Belić, and K. Smiljanski: Effect of the Depth of Tillage in Various Systems of Dressing and Crop Rotation	5
M. Zivković: Humus Composition in Forest Gajnjača Soils of Serbia with Different Degrees of Saturation with Bases	17
M. Mickovski, A. Seaman, and M. Woodbine: The Effect of Hormone Herbicides 2,4-D, MCPA, and MCPB on Soil Fungus Flora	32
M. Džamić, M. Pešić, and B. Đurđević: Contribution to the Study of Physical and Chemical Properties of Oil in Some Walnut Types (<i>Juglans regia</i> L.) from the Autonomous Province Kosovo and Metohija	43
S. Bulatović and M. Mijačika: Contribution to the Knowledge of Stolon Occurrence and Development in Some Strawberry Varieties	53
B. Pejkić: Abnormal Traits in Microsporogenesis and Pollen Germination in the Sour Cherry Variety Petrovaradinka	63
D. Mitović: Effect of Molybdenum and Zinc on the Yield and Quality of Some Grape Varieties	69
S. Lazić, M. Šupica, and M. Zoržić: A Contribution to the Knowledge of Grape Varieties' Centers of Origin	79
J. Belić, A. Ognjanović, D. Isakov, V. Isakov, and Z. Gajić: Performance of Cross-Bred Pigs Produced by Triple Crossing under Yugoslav Breeding Conditions	91
S. Bačvanski, Č. Obradović, S. Vučetić, and S. Milovančev: Use of Corn Silage and Green Fodder in the Initial Period of Fattening Young Cattle	107
V. Anastasijević: Possibility of Increasing the Biological Value of Sunflower Seed Oil Meal by Addition of Synthetic Lysine in Fattening Young Pigs	115
V. Mitrović and I. Mihajlović: The Effect of Carp Culture on Secondary Productivity of Fishponds	129
Reviews	145

Available From CFSTI TT 68-50057/1

ARHIV ZA POLJOPRIVREDNE NAUKE
Vol 21, No 73, 1968

<i>Cedomir Obračević, Stevan Bačvanski, Timotej Cobić and Sofija Vučetić:</i>	
The Effect of Protein Level of Rations in Intensive Beef Production . . .	5
<i>Stojanka Ocokoljić:</i>	
Agricultural Values of Meadows on Kučaj Mountain	15
<i>Krsto Rosić, Miliwoje Mišović and Branko Kerecki:</i>	
Investigations of the Drought Resistance of Inbred Corn Lines	43
<i>Danica Jelenić, Milutin Penčić, Ljiljana Zarić and Branko Kerecki:</i>	
Synthesis Dynamics of Nitrogen and Phosphorus Organic Compounds in Different Stages of the Ear Organogenesis of Some Corn Types	53
<i>Borivoje Pejkić and Aleksandar Đokić:</i>	
Cytogenetic and Morphologic Causes of Male Sterility in Leskovac Quince	61
<i>Staniša A. Paunović:</i>	
Sphaeroblast Formation on Požega Plum Trees	69
<i>Branislava Tešić-Jovanović:</i>	
The Formation of Generative Organs in Cocksfoot (<i>Dactylis glome- rata</i> L.)	79
<i>Ljubiša M. Zečević and Aleksa O. Popović:</i>	
Some Barley Mutations Induced by Irradiation of Seed	91
<i>Zivan Rajković:</i>	
Dynamics of Applied Potassium in the Most Widely Distributed Soil Types in Serbia	97
<i>Branka Savić and Milan Jekić:</i>	
The Content of Manganese, Copper, and Zinc in Smonitsas of Ma- cedonia	107
<i>Velimir Sirkic:</i>	
Correcting the Formula for Digestibility Coefficient — A Proof of In- dicator Losses by the Chromic Oxide Method as Applied on Rats	115
<i>Reviews</i>	123

Available From CFSTI TT 68-50057/2



Astrophysics

The Faraday Press
cover-to-cover translation of *Astrofizika*

Contents

Volume 3, Number 1 · Spring 1967

	Russian page	English page
Editorial Board		
<i>Astrofizika</i>		
a publication of the Academy of Sciences Armenian SSR		
V. A. Ambartsumyan, Editor-in-Chief		
L. V. Mirzoyan, Associate Editor		
A. A. Boyarchuk		
B. A. Vorontsov-Vel'yaminov		
G. A. Gurzadyan		
S. A. Kaplan		
B. E. Markaryan		
V. V. Sobolev		
Faraday Advisory Editors		
A. J. Meadows University of Leicester		
D. ter Haar Oxford University		
The Number of Scatterings During Photon Diffusion. III. V. V. Sobolev	5	1
Matrix Equations for Radiation Diffusion. II. R. I. Kostik	17	6
Nonrelativistic Theory of Rotating Configurations. V. V. Papoyan, D. M. Sedrakyan, and E. V. Chubaryan	41	27
Galaxies With an Ultraviolet Continuum. B. E. Markaryan	55	34
The Monochromatic Reflection Effect in Close Binary Systems. I. B. Pustyl'nik	69	49
Note on the Hydrogen Density in Clusters of Galaxies. I. D. Karachentsev	89	56
The Position of the Layer of Interstellar Material in the Galaxy M 31. E. N. Makarenko	93	58
The Phase Density of White Dwarfs in the Color-Luminosity Diagram. A. M. Eigenson	103	64
Observational Selection and Statistics of Visual Binary Systems. II. Statistics. B. I. Fesenko	111	67
Photometric and Colorimetric Characteristics of Eruptive Stars. IV. R. E. Gershberg	127	74
Brief Communications		
A Supernova in NGC 2276. S. G. Isakdaryan and R. K. Shakhbazyan	133	77

Available From The Faraday Press

Single Issue: \$40

Annual Subscription: \$100

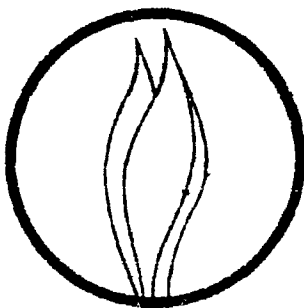
© 1969 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not
be reproduced in any form without permission of the publisher

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

- 158 -



Astrophysics

The Faraday Press
cover-to-cover translation of *Astrofizika*

Contents

Volume 3, Number 2 Summer 1967

Editorial Board

Astrofizika

a publication of the
Academy of Sciences
Armenian SSR

V. A. Ambartsumyan,
Editor-in-Chief

L. V. Mirzoyan,
Associate Editor

A. A. Boyarchuk
B. A. Vorontsov-Vel'yaminov
G. A. Gurzadyan
S. A. Kaplan
B. E. Markaryan
V. V. Sobolev

Faraday Advisory Editors

A. I. Meadows
University of Leicester
D. ter Haar
Oxford University

	Russian page	English page
The Number of Scatterings during Photon Diffusion. IV. V. V. Sobolev	137	69
Matrix Equations of Radiation Diffusion. III. R. I. Kostik	155	76
Momentum and Mass Distribution Functions for Newly Generated Cosmic Objects. A. G. Doroshkevich	175	84
The Equilibrium of a Star during a Phase Transition. Z. F. Seidov	189	90
Determination of the Temperature of Stars Surrounded by Extended Gas Envelopes or Nebulas. A. A. Boyarchuk	203	96
Three-Color Photometry of Stephan's Quintet. A. T. Kaloglyan and N. L. Kaloglyan	209	99
Spectroscopic Investigation of ϵ Aurigae. N. L. Ivanova	223	107
Interpretation of the Polarization Variability of β Lyrae Radiation. O. S. Shulov	233	111
Effects of Gas Streams in Close Binary Systems. V. G. Gorbatskii	245	116
Influence of Periodic Shock Waves on the Density Distribution in the Atmosphere of a Pulsating Star. I. A. Klimishin	259	121
Mass Distribution in Galaxies Deduced from Radial-Velocity and Photometry Data. V. S. Sizikov	267	124

Available From The Faraday Press

Single Issue: \$40

Annual Subscription: \$100

© 1968 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not
be reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

AUTOMATION and REMOTE CONTROL

A translation of *Avtomatika i Telemekhanika*

Number 9

September, 1968

CONTENTS

Engl./Russ.

CONTINUOUS CONTROL SYSTEMS

Stabilization of Linear Control Systems with Unknown Parameters--V. A. Chernyatin	1363	5
Investigating Self-Oscillations of Space Vehicles, I--É. V. Goushus	1375	18
Observability of Nonlinear Controlled Systems--Yu. M.-L. Kostyukovskii	1384	29
Optimal Finite Control with a Quadratic Quality Criterion--I. F. Krasichkov-Temovskii and Ya. I. Khurgin	1397	43
Effect of Phase Discriminator Response on the Statistical Dynamics of a Phase-Shift Automatic Frequency Control System--B. I. Shakhtarin	1407	53

DISCRETE SYSTEMS

Two New Structures for the Implementation of a Discrete Transfer Function with Complex Poles --A. E. Vereshkin, L. D. Divied, K. M. Rossi, and R. M. Shmid	1416	63
Investigating the Stability of a Multivariable Control System with Pulse-Frequency Modulation Using the Direct Lyapunov Method--V. M. Kuntsevich	1424	71
Analysis of the Errors that Appear in an Automatic System when the Control Law is Implemented on a Digital Computer, and Harmonic or Random Inputs are Present--V. G. Gusev	1436	84

ADAPTIVE SYSTEMS

Adaptive Systems with Random Extremum Search--V. A. Taran	1447	96

AUTOMATIC CONTROL IN BIOLOGICAL SYSTEMS

Control Processes in the Respiratory System--N. V. Zavalishin and L. A. Tenenbaum	1456	106

TECHNICAL MEANS

White-Noise Generator--Yu. V. Verkienko and G. A. Tikhonov	1471	123
Design and Optimization of the Static Characteristics for One Type of Pneumonic Element --V. I. Lezin and V. I. Chernyshev	1481	134
Asymptotic Method for Calculating the Reliability of Engineering Systems--P. I. Popov and A. P. Cherenkov	1488	143
Dynamic Characteristics of a dc Self-Excited Amplifier--V. V. Pevzner	1497	152

LARGE-SCALE SYSTEMS

Economic Models and Biological Systems--N. G. Boldyrev	1503	158

COMPUTING TECHNIQUES IN AUTOMATIC CONTROL

Special-Purpose Computer, the "Dispersimeter," for Identification Problems--L. V. Giginelshvili ..	1508	164
Simulation of Transcendental Equations in Stability Investigations--A. F. Verlan' and V. S. Godlevskii	1512	169
Analysis of Circuits with Ideal Amplifiers and Transformers--V. I. Anisimov	1518	175

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

AUTOMATIKA I TELENKHEMATIKA

No 9, 1968

Engl./Russ.

TECHNICAL NOTES

Investigating a Three-Channel Automatic Control System with Antisymmetrical Cross-Connections Using the Method of Root Trajectories—G. A. Bendrikov and V. I. Ogorodnikova	1526	184
Frequency Conditions for Absolute Stability of Automatic Control Systems for Certain Classes of Nonlinearities—G. G. Gul'chuk	1529	187
Spectral Density of a Continuous Random Process at the Output of a Pulse-Amplitude System —A. M. Perel'man	1535	192
Problem of Optimal Allocations of Finite Resources—É. N. Tsynkova	1538	195
Ferrite-Transistor Type Function Generator—F. F. Belinskii	1544	201

CONFERENCES, MEETINGS, AND SYMPOSIA

International Conference of the IEEE—A. A. Voronov and Ya. Z. Trypkin	1548	205

BOOK REVIEWS

Richard Bellman, Introduction to the Mathematical Theory of Control Processes. V. 1. Linear Equations and Quadratic Criteria—A. M. Letov and A. A. Piontkovskii	1551	207

The Russian press date (podpisano k pechati) of this issue was 9/12/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

AUTOMATION and REMOTE CONTROL

A translation of *Avtomatika i Telemekhanika*

Number 10

October, 1968

CONTENTS

Engl./Russ.

CONTINUOUS CONTROL SYSTEMS

Incorrect Problems in Optimal Control Theory (Survey)—L. S. Kirillova and A. A. Piontkovskii . . .	1553	5
Investigation of Auto-Oscillations of Cosmic Devices. II—É. V. Gauskus . . .	1564	18
Simple Conditions of Observability of Nonlinear Controlled Systems—Yu. M.-L. Kosryukovskii . . .	1575	32
Follow-Up Failure in Nonlinear Systems Operating under Unsteady Conditions —G. V. Obrezkov and V. D. Razevig . . .	1585	42
Investigating Random Processes in Control Systems with a Variable Structure Using Statistical Linearization Methods—A. K. Nikitin and G. M. Ulanov . . .	1592	50
Equations for the Semi-Invariants of a Nonlinear Dynamic System—M. L. Dashevskii . . .	1605	63

DISCRETE SYSTEMS

Absolute Stability and the Region of Asymptotic Stability of Sampled-Data Control Systems with Pulse-Frequency Modulation—Yu. N. Chekhovoi . . .	1614	72
Practical Methods for the Calculation of the Linearization Factors for Arbitrary Nonlinearities —I. S. Morozanov . . .	1622	81

LARGE-SCALE SYSTEMS

Development of Automated Control Systems—O. I. Aven . . .	1637	97

AUTOMATA

Utilization of Recognition Program "Experience" in the Interpretation of Well-Logging Data —Sh. A. Guberman and M. L. Izvekova . . .	1648	109
Method for the Decomposition of Finite Automata with Segregation of Output and Input Automata—A. K. Grigoryan . . .	1651	113

AUTOMATIC CONTROL IN BIOLOGICAL SYSTEMS

Neuron Sensitivity—M. L. Bykhovskii, R. I. Grilikhes, and A. M. Rusanov . . .	1656	119

TECHNICAL MEANS

Optimal Conversion of Signals from Several Devices with Errors and Failures Taken into Account —D. A. Braslavskii and A. M. Yakubovich . . .	1664	128

COMPUTING TECHNIQUES IN AUTOMATIC CONTROL

Approach to Test Construction—E. S. Sogomonyan . . .	1673	137

MODELS OF CONTROLLED PLANTS

Identification of a Complex Controlled Plant by Means of Partial Correlation and Dispersion Functions of Random Functions—É. Palzlev . . .	1683	147
Plant Identification by Stepwise Approximation Methods—I. I. Perel'man and O. A. Polyzkov . . .	1690	155
Classification of Dynamic Models of Chemical Production Plants. III—E. K. Shigin . . .	1703	168

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

AVTOMATIKA I TELEMEXHANIKA No 10, 1968

Engl./Russ.

TECHNICAL NOTES

Determining the Parameters of the Oscillations of a System with a Nonlinearity of the Backlash Type—V. S. Chernov and L. A. Chuyanov	1714	182
Method of Determination of the Equation of a Capacitor Transducer with the Aid of a Polynomial of Given Degree—A. E. Zverev	1717	185

CONFERENCES, MEETINGS, AND SYMPOSIA

Second Princeton Conference on Information Theory and Systems—A. A. Voronov and Ya. Z. Tsypkin	1721	189

CHRONICLES OF THE IFAC

New IFAC Journal "Automatica"	1723	191

BOOK REVIEWS

E. B. Lee and L. Markus, Foundations of Optimal Control Theory—Reviewed by A. M. Letov and A. A. Piontkovskii	1724	192

The Russian press date (podpisano k pechatl) of this issue was 10/2/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

BIOCHEMISTRY

A translation of *Biokhimiya*

Volume 33, Number 3, Part 2

May-June, 1968

CONTENTS

	Engl./Russ.
Quantitative Analyses by Spot Size on Thin Layer Chromatograms, Dinitrophenylamino Acid Analysis--V. V. Nesterov, B. G. Belen'kii, and D. P. Erastov.....	441 537
Metabolically Active DNA Fraction--V. I. Tokarskaya, S. R. Urnanskii, and P. A. Nelipovich.....	445 542
Effect of Cytokinin on Physiological Activity of Chloroplasts--E. G. Romanko, Kh. Ya. Khain, and O. N. Kulacva.....	450 547
Effect of α -Ketoglutarate and Ammonium Ions on Oxidation of Succinate by Liver Mitochondria--A. D. Vinogradov.....	455 553
Lecithinase Formation in <i>Clostridium perfringens</i> Type A--G. F. Shemanova, K. L. Shakhnina, E. V. Vlasova, C. K. Borisova, and R. D. Bakirov.....	461 561
Intensity of Anserine and Carnosine Biosynthesis in Intact and Denervated Chicken Muscles--O. V. Dobrynina and A. V. Gorbunova.....	468 570
Significance of Carbohydrate-Transport Mechanisms in Regulation of Fructose Diphosphate Accumulation in <i>Escherichia coli</i> --V. N. Gershanovich, N. V. Yur'ovitskaya, and V. V. Klyucheva.....	472 576
Conditions of P^{32} Incorporation into the Labile Nucleotide Phosphate of Thymocyte Nuclei--K. I. Dancheva.....	477 583
Amino Acid Composition and N-terminal Amino Acids of Tuberculin Active Peptides--V. I. Degtyarenko and A. Ya. Rozanov.....	482 589
Role of Structural Elements of Chloramphenicol in the Molecular Mechanism of its Action--G. N. Telesnina, M. A. Novikova, M. N. Kolosov, and M. M. Shemyakin.....	486 595
Study of Interaction between Serum Albumin and Glutathione by Gel Filtration on Sephadex--M. M. Lobanov and Kh. M. Rubina.....	490 600
Simultaneous Inhibition of Acetylcholinesterase by Mono- and Bis-Quaternary Ammonium Inhibitors--R. I. Volkova.....	493 604
Study of Malate Dehydrogenase--NADH ₂ Dehydrogenase Complex in Membranes of <i>Micrococcus lysodeikticus</i> by Extraction with Detergents and Bile Salts--D. N. Ostrovskii, I. G. Zhukova, and N. S. Gel'man.....	499 612
Nature of Activating Action of Dinitrophenol on Myosin Adenosinetriphosphatase Activity--E. V. Petushkova and I. M. Bocharnikova.....	504 618
Properties of ATP:D-Hexose-6-Phosphotransferase from the Rabbit Renal Cortex--M. P. Fomina.....	509 625
Organic and Intracellular Localization of Ceruloplasmin Biosynthesis--A. M. Shaposhnikov, Yu. N. Zubzhitskii, and G. V. Mukha.....	512 629
Alkali-Soluble Protein from the Black Sea Red Alga <i>Phyllophora nervosa</i> --E. I. Medvedeva and E. F. Selich.....	518 635
Electroreduction of S-S Bonds in α -Chymotrypsin--I. V. Berezin, N. F. Kazanskaya, M. S. Khludova, and R. B. Khusainova.....	526 644
General Preparative Method of Successive Extraction of Proteins and Peptides from Seeds of Leguminous and Malvaceous Plants--K. G. Ioffe, A. R. Rakhimov, I. A. Asatov, and G. Ya. Lamm.....	533 652

(Contd)

BRIEF COMMUNICATIONS

Engl./Russ.

Effects of AMP, Glucose-1-Phosphate, and Glycogen on the Enzymatic and Structural Properties of Native and Acetylated Phosphorylase α -P. L. Vul'fson and N. B. Kozlova.....	538 658

The Russian press date (podpisano k pechatl) of this issue was 6/4/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

BIOCHEMISTRY

A translation of *Biokhimiya*

Volume 33, Number 4, Part 1

July-August, 1968

CONTENTS

	Engl./Russ.
Polymeric Ferric Phosphate in Mycelium of <i>Penicillium chrysogenum</i> Q-176 — L. A. Okorokov and I. S. Kulaev.....	543 667
Riboflavin-Sensitized Photooxidation of Glycolic Acid—P. A. Kolesnikov, E. I. Petrochenko, and S. V. Zor'6	553 680
Isolation of Plasma Membranes of Animal Cells and Some of Their Properties —S. Ya. Davydova	557 685
Role of Ribosomes in Fibroblastic Biosynthesis—N. A. Gumi'lovskaya, E. B. Kubaeva, and L. V. Chumikina	565 694
Pyrimidine Nucleotide Blocks of DNA Fractions of Bone Marrow of Normal and X-irradiated Animals—G. A. Kritskii and T. Ya. Surina.....	575 706
Use of Phenol Fractionation for the Isolation of the Replicative Form of DNA of T ₅ Phage—V. I. Tanyashin.....	581 713
Mitochondrial Chemiluminescence Unassociated with Processes of Oxidative Phosphorylation—Yu. A. Vladimirov, T. B. Suslova, and Z. P. Cheremisina	587 720
Nucleic Acids of the Neuron—Neuroglia System in the Anterior Horns of the Spinal Cord and in the Cerebellum under the Action of Anticholinesterase Agents —N. L. Rubinskaya.....	593 726
Comparison of the Influence of Natural Imidazole Compounds on the ATPase Activity of Myosins Isolated from the Muscles of Various Animals —I. M. Bocharnikova and E. V. Petushkova	599 733
Effect of Regular Muscle Activity on the Activity of Enzymes of Glycogen and Glucose-6-Phosphate in Muscles and Liver—N. N. Yakovlev	602 737
Reaction of N- α -Tosyl-L-Lysylchloromethane with Kallikrein from Rabbit Blood Plasma and with Kallikreins from Human Urine and Saliva—T. S. Paskhina, V. P. Zykova, T. P. Egorova, V. F. Nartikova, A. V. Karpova, and M. V. Gruseva	608 745
Chemical Properties of Ferritin—L. A. Syrtsova, V. A. Yakovlev, and V. F. Rachev ...	615 753
Some Features of the Sorption of Lysozyme on Chitin—I. A. Cherkasov and N. A. Kravchenko	621 761
Structure and Respiratory Metabolism of Maize Mitochondria under Anaerobic Conditions—G. M. Grineva, I. A. Andreeva, and V. A. Lipasova	625 766
Peculiarities of the Composition and Properties of Chick Embryo Histones A. A. Myul'berg, V. I. Dymnbaum, O. K. Rozenfel'd, A. A. Sharygin, and I. P. Ashmarin	632 774

The Russian press date (podpisano k pechatu) of this issue was 8/9/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

ELECTRICAL ENGINEERING IN JAPAN

DENKI GAKKAI ZASSHI

VOLUME 68	1968	NUMBER 9

	Page
M. Kido, Y. Inagaki and Y. Shirao: Switching Surges and Arrester Discharge Duty on a Three-Phase EHV Transmission System	1
T. Takuma and M. Chiba: Positive dc Corona and Spark Characteristics in High-Pressure Air	10
K. Hashiguchi: Motion of Vapor Bubbles Produced by a Transient Arc in an Insulating Liquid	16
T. Sugimoto: Corona Loss of Three-Conductor Bundle	23
T. Fukao and S. Miyairi: Bidirectional ac-dc Power Converter	32
Y. Yoshida and T. Machida: Frequency Control of Asynchronous Interconnected ac-dc Systems by an Automatic Frequency Ratio Controller	42
N. Ito and S. Sekine: Computer-Aided Control of HV-dc Power Systems (Part I. Hardware)	50
Y. Ohba and Y. Sekine: Security Control of Power System Cascade-Shutdown Due to Supply-Demand Unbalance	60
K. Takahashi, Y. Ohba and Y. Sekine: Security Control of Power System Cascade-Shutdown Due to Overloadings	71
H. Ogawa: An Economic Assessment of Investments in Electric Power Industry	79

Available From The Institute of Electrical and Electronic Engineers

ELECTRONICS AND COMMUNICATIONS IN JAPAN

DENSHI TSUSHIN GAKKAI RONBUNSHI

1968

VOLUME 51

NUMBER 6

Page

PART A

Wire Communication, Switching Practice, Transmission Lines, Electroacoustics,
Ultrasonics and Network Theory

CONTRIBUTED PAPERS

Tonau Osatake, Kiyoshi Kirisawa and Yo-hiaki Ozeki: An Experimental Orthogonal PCM System	1
Kiyoshi Kirisawa, Shinichi Tajima and Kunio Tano: Regenerative Repeater for Orthogonal PCM System	10
Yasuo Tsuzuki and Mitsuo Kakuishi: Generation of Contour Mode Vibrations Excited by Thickness-Shear Vibration of AT-Cut Quartz Plates	18
Tonau Osatake and Hidehiko Tanaka: Scattered Type Switching Networks.	23
Tatsuo Ohtsuki, Yasutoshi Ishizaki and Hitoshi Watanabe: Network Analysis and Topological Degrees of Freedom	33

SHORT NOTES

Yasuo Tsuzuki, Yasuo Hirose and Ken'ichi Iijima: Measurement of Vibrational Modes of Quartz Plates by Means of Holography	41
Morio Onoe and Takeshi Yano: Effects of Higher Torsional Waves on Flexural Vibration of a Circular Disk	42
Kiyasu-Zen'iti and Akira Maruoka: A Note on the E-Series Pairs	43

PART B

Radio Communication, Antennas, Wave Propagation, Microwaves, Millimeter Waves,
Quantum Devices, Electron Devices and Television

CONTRIBUTED PAPERS

Masaaki Imai, Kiyohiko Ito and Tadashi Matsumoto: On a Curved Gas Lens with Idealized Medium	45
Shogo Kozaki and Yasuto Mushiaki: Radio Wave Propagation in Longitudinally Inhomogeneous Anisotropic Medium	54
Tonau Osatake, Akira Fujii and Tetsuo Akutagawa: A Study of a Parametric Amplifier as a Tracking Filter	63
Naohisa Goto: A Circular Array of Linear Antenna Elements	70
Kazuaki Takao: A Vehicle-Tracking Antenna Array Composed of Cross Dipoles.	78
Yoshiyuki Naito and Kunihiro Suetake: Characteristics of Zigzag Type Absorbing Wall ..	86
Toshiharu Aoki: Theory of Time-Frequency-Coded Communication Systems	93
Naohisa Goto: Super-Gain Effect and Elements in Endfire Array	102
Kazuo Noda: Design for Frequency-Modulator Circuit Using Variable-Capacitance Diode	107

SHORT NOTES

Koichi Mikoshiba: Radiation from Small Size Coaxial Waveguide	113
Isao Ootomo and Sadakuni Shimada: Center-Frequency-Tunable Directional Filter for Millimeter Waves	115
Masataka Yamamoto, Susumo Oto and Hiroshi Ochi: Compensation of the Temperature Characteristics of Strip Circuits	117

(Contd.)

Available From The Institute of Electrical and Electronics Engineers

DENSHI TSUSHIN GAKKAI RONBUNSHI
Vol 51, No 6, 1968

PART C

Electronic Computers, Information Theory, Automatic Control, Electronic Materials
and Components, Instrumentation and Pattern Recognition

CONTRIBUTED PAPERS

Nobuki Tokura and Tadao Kasami: Context-Free Grammars with Unique Phrase Structure	119
Hideo Suzuki, Katuhiro Kato and Ichizo Nakano: Analysis of Magnetization Character- istics in Saturation Region of Magnetic Circuits.	127
Shuzo Yatima and Yahiko Kambayashi: Synthesis of Two-Way Logic Circuits.	136
Akio Nishimura and Toshio Arai: Barium Titanate Capacitor Reformed by Electrolysis Method	145
Naohiro Ishii and Masayuki Kimura: Testing and Synthesis of Threshold Networks Realizing a Given State Transition Diagram	150
Hajime Maeda, Shinzo Kodama and Hiromitsu Shirekawa: On the Steady-State Error of Nonlinear Control Systems	159
Tadao Kasami and Mamoru Fujii: Some Results on Capabilities of One-Dimensional Iterative Logical Networks	167

SHORT NOTES

Kojiro Kobayishi: Realization of Boolean Functions Under Restrictions on the Numbers of Some Elements - A Correction and a Supplement	177
Minoru Toda: Analysis of P-Dielectric-N Multilayer Inductance Element Using Magnetoresistance	177

CONTRIBUTORS TO THIS ISSUE	180

Available From The Institute of Electrical and Electronics Engineers

DOKLADY PHYSICAL CHEMISTRY

A translation of the Physical Chemistry Section of *Doklady Akademii Nauk SSSR*

Volume 182, Numbers 1-3

September, 1968

CONTENTS

	Engl./Russ.
Energy Transfer and Excitation Mechanism of Manganese in Electroluminescence of Phosphors ZnS·Cu·Mn and ZnSe·Cu·Mn - Academician A. G. Gol'dman and I. L. Romanenko	639 122
The Equations for Dynamic Sorption in an Undeformed Porous Medium - P. P. Zolotarev and L. V. Radushkevich	643 126
A Field Effect Study of the Relation between the Fermi Level and the Catalytic Dehydration of Isopropyl Alcohol on TiO ₂ Films - N. P. Kelet, É. P. Mikhcheva, and L. G. Usol'tseva	647 130
Calculation for Molecules of Four-Coordinated Phosphorus with a P=O Bond, by the Simple Molecular Orbital Method - M. A. Landau, V. V. Sheluchenko, and S. S. Dubov	651 134
The Thermal Coagulation of an Emulsion Contained within an External Electrical Field - G. M. Panchenkov and L. K. Tsabek	654 137
Infrared Spectra of Acetonitrile Adsorbed on Montmorillonite - Yu. I. Tarasevich, V. P. Telichkun, and Academician F. D. Ovcharenko	659 141
Investigation of Conformational Change in Macromolecules by Polarization Fluorescence - E. V. Anufrieva, M. V. Vol'kenshtein, M. G. Krakoviyak, and T. V. Sheveleva	662 361
Threshold Features in Elementary Chemical Processes - A. I. Baz' and V. I. Gol'danskii	665 364
Flow in Superficial Films during the Evaporation of Water from Capillaries - B. V. Deryagin, N. V. Churaev, and I. G. Ershova	668 366
Two-Dimensional and Three-Dimensional Nucleus Formation during the Growth of Crystals - V. F. Dorfman and M. B. Galina	672 372
Surface Energy of Pyrographite - V. P. Elyutin, V. I. Kostikov, and A. V. Kharitonov	676 376
An Investigation of the Kinetics of the Decarbonization of Steel in the Solid State by the Use of Radioactive Isotopes - L. P. Emel'yanenko, A. I. Rogov, and L. A. Shvartsman	678 378
Catalyst and Equilibrium. Their Interrelation in Processes Taking Place at High Pressures and High Temperatures - Ya. A. Kalashnikov	681 382
Electronic Spectra of Diphenylketene and Its Photolysis Products, Diphenylmethylene - L. A. Mileshina, R. N. Nurmukhametov, D. N. Shigorin, and Sh. Nadzhimutdinov	694 386
Determination of the Surface Charge of Germanium Alloyed with Antimony - Academician Vikt. I. Spitsyn, V. V. Gromov, V. S. Arakelyan, and N. G. Lysenko	687 390
The Strength and Durability of a Magnesium Oxide Catalyst during Catalysis - E. D. Shchukin, M. V. Dukarevich, S. I. Kontorovich, and Academician P. A. Rebinder	690 394
Granular Polymerization of Methylmethacrylate with Surface Activation of the Initiation - A. I. Yurzhenko, N. N. Zayats, and V. A. Vii'shanskii	693 398
How the Nature of the Solvent Affects the Kinetics of Processes on Mercury and Amalgam Electrodes - V. P. Gladyshev, Academician M. T. Kozlovskii, and L. P. Petrova	696 620
Dissociation Pressures of Lead Carbonates - E. V. Margulis, Yu. S. Remizov, and G. I. Chufarov	699 623
Reactions in a Flame of Decomposing Diacetylene - F. B. Moshkovich, A. I. Rozlovskii, and R. Ya. Mushii	702 626
Application of Local X-Ray Spectroscopic Analysis to the Study of Solid-Phase Reactions - N. M. Pavlushkin, R. Ya. Khodakovskaya, V. N. Zueva, and V. A. Zuev	706 630

(Contd.)

Available From Consultants Bureau

	Engl./Russ.
Nuclear Magnetic Resonance Study of the State of Hydrogen in the Heteropolytungstates of Certain Metals -- Mariana Puscasu	711 634
Various Criteria for Assigning Electronic Bands to "Intramolecular Charge Transfer" Bands -- G. V. Saidov, O. V. Sverdlova, and N. G. Baldishiev	715 638
On the Mechanism of the Emulsion Polymerization of Vinylacetate in the Presence of Nonionogenic Surfactants -- V. A. Spiridonova, S. A. Nikitina, and A. B. Taubman	717 640
Electrolytic Properties of Sodium Sulfate in Water at High Temperatures -- Academician M. A. Styrikovich, O. I. Martynova, Z. S. Belova, and V. L. Men'shikova	720 644

The Russian press dates (podpisano k pečati) of the first and last issues covered in this issue of the translation were, respectively, 8/29/1968 and 9/5/1968. 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 Consultant: Bureau

DOKLADY PHYSICAL CHEMISTRY

A translation of the Physical Chemistry Section of *Doklady Akademii Nauk SSSR*

Volume 182, Numbers 4-6

October, 1968

CONTENTS

	Engl./Russ.
Luminescence Investigations of the Chemical Sensitization of Silver Bromide-Iodide Emulsions - V. M. Belous, L. P. Mel'niehuk, and K. V. Chibisov	723 862
A Study of the Mechanism of Thermal Decomposition of Potassium Permanganate - V. V. Boldyrev, O. P. Korobeinichev, and N. I. Sukhova	726 866
Mechanism of Synergism in the Inhibition of Degenerate Branched-Chain Oxidation Reactions by Mixtures of Aromatic Amines and 2,6-Disubstituted Phenols - G. V. Karpukhina, Z. K. Maizus, and N. M. Émanuéli'	729 870
Formation of Gaseous Products by Laser Action on Polymethylmethacrylate - G. V. Mikhailova, N. P. Novikov, and Yu. I. Yudin	733 874
The Ignition of Diacetylene - F. B. Moshkovich, A. I. Rozlovskii, and R. Ya. Mushii'	736 877
Determination of the Kinetic Constants for Topochemical Reactions under Nonisothermal Conditions from an Equation in the Differential Form - A. V. Shkarin and G. M. Zhabrova	739 880
Kinetics and Mechanism of Cationic Polymerization of Styrene under Conditions of Electrodialysis - F. S. D'yachkovskii, Dzh. M. Eglazaryan, G. A. Kazaryan, and N. S. Enikolopyan	743 1105
Magnetism of Mn (II) and Fe (II) Chelates with Tetradentate Ligands - V. V. Zelentsov	746 1109
The Nature of the Conductivity of Compounds of the Transition Elements with Ordered Vacancies - V. A. Ivanova, D. Sh. Abdinov, and G. M. Aliev	748 1111
Determination of the Size Distribution of Submicroscopic Inhomogeneities from Small Angle X-Ray Scattering Data - Yu. A. Kuzin, E. N. Syromolotov, G. M. Plavnik, and M. M. Dubinin	750 1114
Study of the Effect of Polar Groups at the Surface of Carbon Black on Fortifying Hydrocarbon Dispersion of Carbon Black in Dissolved Rubber - N. N. Lezhnev, B. Ya. Yampol'skii, M. K. Krasil'nikova, and T. S. Borbovskaya	754 1118
Propagation Mechanism of Heterogeneous Detonation - S. A. Lesnyak, M. A. Nazarov, Ya. K. Troshin, and K. I. Shchelkin	759 1122
Some Laws Governing the Change in High-Temperature Strength in Titanium-Based Ternary Systems - T. T. Nartova	762 1126
Changes in Structure and Properties of Elastomers with Mechanical Action - E. V. Reztsova, P. F. Badenkov, and V. A. Kargin	765 1130
The Effects of Radiation from Thallium 204 and Ruthenium 106 on Electrode Processes - Vikt. I. Spitsyn, I. E. Zimakov, and V. P. Pletnev	769 1134
Hydrolytic Properties of Sodium Sulfate in Water at High Temperatures - M. S. Styrikovich, O. I. Martynova, Z. S. Belova, V. L. Men'shikova, and B. P. Nesterov	772 1138
A Study of Cumene Cracking on Type X and Y Zeolite Catalysts with Alkaline Earth Metal Cations - I. T. Golubchenko, P. N. Galich, V. S. Gutrya, and L. A. Piskun	775 1348

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

DOKLADY AKADEMII NAUK SSSR
Vol 182, No 4-6, October 1968

Engl./Russ

Synthesis of Organic Gels by Solidification of a Polymer with a Large Content of Plasticizer and Their Optical and Mechanical Properties - N. L. Malkin, N. A. Shestakovskaya, and S. L. Sokolov	779	1351
Protective Action of Propyl Gallate in the Radiolysis of Aqueous Solution of DNA - M. T. Nadzhimiddinova, V. A. Sharpatyi, K. E. Kruglyakova, and N. M. Émanuél'	782	1354
A Study of the Reactivity of Oxygen Adsorbed on Silver and the Relation between the Reactivity and the Work Function - L. A. Rudnitskii, L. I. Shakhovskaya, N. V. Kul'kova, and M. I. Temkin	786	1358
Chromato-Effusometric Method for Analyzing Mixtures - V. L. Tal'roze and V. D. Grishin	788	1361
Effective Surface Charges on Semiconductors in the Physical Adsorption of Inert Gases - E. N. Figurovskaya and V. F. Kiselev	792	1365
Emulsion Polymerization of Methyl Methacrylate in Presence of Polymeric Emulsifiers - A. Ya. Chernikhov and S. S. Medvedev	795	1369

The Russian press dates (podpisano k pechatii) of the first and last issues covered in this issue of the translation were, respectively, 9/11/1968 and 10/7/1968. 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

DOKLADY AKADEMII NAUK SSSR
EDITORIAL BOARD

L. A. Arsenovich
N. M. Emanuel
A. M. Frank
A. N. Kolmogorov
D. S. Korshunov
E. M. Kreps
S. A. Lebedev
V. V. Manner
A. L. Mintz
A. I. Oparin
(Editor)
Director, Institute of Biochemistry
Academy of Sciences of the USSR
A. V. Peixe
Ya. V. Peixe
G. A. Rasuvayev
M. A. Radovskii
L. I. Sedov
(Associate Editor)

Soviet Physics DOKLADY

A Translation of the "Physics Sections" of the
Proceedings of the Academy of Sciences of the USSR

(Russian Original Vol. 182, Nos. 4-6, October, 1966)

Vol. 13, No. 10, pp. 965-1080

April, 1969

CONTENTS

		PAGE	RUSS. ISSUE	RUSS. PAGE
AERODYNAMICS				
An Airfoil Vibration Excited Velocity Field Propagating along the Surface with Supersonic Speed. <u>E. A. Krasil'shchikova</u>	(T)	965	4	783
ASTRONOMY				
The Stability of Solids of Revolution with Respect to Radial Perturbations. <u>G. S. Bisnovaty-Kogan, Ya. B. Zel'dovich, and A. M. Fridman</u>	(T)	969	4	794
Loss of the Lunar Atmosphere by an Adsorptive Mechanism. <u>A. M. Gutkin, M. S. Markov, Ts. M. Raitburd, and M. V. Slonimskaya</u>	(T)	972	6	1294
CRYSTALLOGRAPHY				
Crystalline Structure of the Recently Discovered Natural Borate Vimsite $\text{Ca}(\text{B}_2\text{O}_7(\text{OH})_2)$. <u>D. P. Shashkin, M. A. Simonov, and N. V. Belov</u>	(T/E)	974	4	821
Interpretation of the Patterson Function from Its Multiple Peaks. <u>E. A. Kuz'min, V. V. Ilyukhin, and N. V. Belov</u>	(T)	978	5	1067
X-Ray Diffraction Investigation of Structural Features of Cubic Boron Nitride Crystals. <u>M. I. Sokhoř and S. I. Futergendler</u>	(E)	982	5	1071
Equations for Calculation of Structural Factors and Their Derivatives in the Case of Anisotropic Thermal Vibrations. <u>V. I. Bardina</u>	(T)	987	6	1315
CYBERNETICS AND CONTROL THEORY				
Automaton Representations and Functional Semimatrices in a Symmetrical $\wedge$ -alphabet Semigroup. <u>V. P. Zarovnyi</u>	(T)	988	4	779
Automaton Representations and Matrices in a Symmetrical Semigroup of an Abelian Group. <u>V. P. Zarovnyi</u>	(T)	992	5	1018
Partial Stability of Probabilistic Automata. <u>B. S. Kochkarev</u>	(T)	996	5	1022
Differential Approach Game. <u>N. N. Krasovskii</u>	(T)	1000	6	1287
Thermodynamic Model of Adaptation. <u>Yu. I. Shmukler</u>	(T)	1003	6	1290
FLUID MECHANICS				
Action of an Acoustic Pressure Wave on a Hollow Spherical Shell. <u>F. I. Grigolyuk and A. G. Gorshkov</u>	(T)	1006	4	787
A Maximum Stability Principle for Mean Turbulent Flows. <u>M. A. Gol'dshtik</u>	(T)	1008	5	1026

(Contd.)

Available from The American Institute of Physics
Vol 13, No 10, April, 1969

	PAGE	RUSS. ISSUE	RUSS. PAGE
MATHEMATICAL PHYSICS			
The Exactly-Solved Quasi-Spin Model of Thirring. <u>N. N. Bogolyubov, Jr.</u> (T)	1011	4	797
Some Properties of Nonconservative Systems in Classical Statistical Mechanics. <u>I. P. Pavlotskii</u> (T)	1013	4	799
A Functional Formulation of the Bogolyubov Axioms Governing Causal S-Matrix Theory. <u>L. Sh. Khodzhaev</u> (T)	1016	5	1032
Generalized Bogolyubov Functions and the Elements of the Causal S-Matrix. <u>L. Sh. Khodzhaev</u> (T)	1019	6	1296
PHYSICS			
Departures from the Electrophotographic Reciprocity Law Associated with an Effective Drift Mobility. <u>V. I. Bugrienko and E. M. Den'ga</u> (T/E)	1022	4	803
Determination of the Temperature of Organic Substances in Shock Waves. <u>I. M. Voskobinikov, V. M. Bogomolov, A. N. Afanasev, and V. N. Shevelev</u> (E/T)	1026	4	807
Measurements of the Refractive Index of Structurally Modified Water Using the Capillary Micromethod. <u>B. V. Deryagin, Z. M. Zorin, and N. V. Churaev</u> (E)	1030	4	811
The Nature of Multiplets in the Quasiline Spectra of Organic Molecules. <u>R. I. Personov and O. N. Korotaev</u> (E/T)	1033	4	815
Scattering Amplitudes for Rearrangement Processes at Low Energies. <u>A. M. Brodskii, V. G. Levich, and V. V. Tolmachev</u> (T)	1037	5	1036
Electromagnetic Properties of Superconductors with Strong Coupling. <u>B. T. Geilikman and V. Z. Kresin</u> (T)	1040	5	1040
IR Spectra of Water and Aqueous Solutions of Acetonitrile in the Region of Librational Oscillations of Water Molecules. <u>Yu. V. Gurikov, L. V. Moiseeva, A. I. Sidorova</u> (T/E)	1043	5	1044
Temporal Characteristics of a Continuous $\text{CaF}_2:\text{Dy}^{3+}$ Crystal Laser. <u>M. E. Dzhibladze, T. M. Murina, and A. M. Prokhorov</u> (E)	1047	5	1048
Criterion for the Hydromagnetic Stability of Plasma in the Neighborhood of the Magnetic Axis. <u>L. S. Solov'ev</u> (T)	1050	5	1052
Slip of Liquids in Capillaries. <u>B. V. Deryagin and N. N. Fedyaikin</u> (T/E)	1053	6	1300
Some Experimental Inferences from the Analyticity of the Form Factor. <u>Nguyen Van Hieu</u> (T)	1056	6	1303
TECHNICAL PHYSICS			
The Stability and Inheritance of the Cast Structure. <u>A. A. Bochvar and Yu. P. Pshenichnov</u> (E)	1059	4	819
Investigation of Dislocation Effects Resulting from the Annealing of Bent Alkali-Halide Crystals According to the Fujiwara Method. <u>Yu. E. Geguzin and V. P. Matsokin</u> (E)	1062	5	1055
Crystal-Lattice Distortions of Nickel-Chromium Alloys during Ordering. <u>E. Z. Vintaikin and E. N. Vlasova</u> (E)	1066	6	1306
Substantiation of the Strength Criterion of Brittle Solids under Conditions of Nonuniform Triaxial Compression. <u>A. I. Markov, N. V. Mikhailov, and P. A. Rebinder</u> (T)	1069	6	1310
Polymorphism of Molybdenum Disilicide. <u>V. N. Svechnikov, Yu. A. Kocherzhinskii, and L. M. Yupko</u> (E)	1072	6	1313
THEORY OF ELASTICITY			
Stresses and Deformations in a Multilayered Half-Space with Surface Loading along a Strip. <u>A. N. Margot'ev</u> (T)	1074	4	790
Dynamic Programming and Nonlinear Problems Concerning Thin-Rod Statics. <u>V. A. Baranenko and Yu. M. Pochtman</u> (T)	1029	5	1077

	Russian page nos.	Page
Andrianov, A. N. <i>Rationality of multiple Hecke series of a complete linear group and Shimura's hypothesis on Hecke's series of a symplectic group</i>	(9-11)	1295
Bakušinskii, A. B. <i>Regularization algorithms for linear equations with unbounded operators</i>	(12-14)	1298
Belen'kii, V. Z. <i>Mathematical programming problems with minimum point</i>	(15-17)	1301
Borisovič, Ju. G. and Sapronov, Ju. I. <i>A contribution to the topological theory of condensing operators</i>	(18-20)	1304
Gold'man, M. L. <i>Estimates of integral norms of the eigenfunctions of the Laplace operator in certain domains</i>	(21-24)	1308
Gohberg, I. C. and Fel'dman, I. A. <i>On Wiener-Hopf integral-difference equations</i>	(25-28)	1312
Ešukov, L. N. <i>Conditions for the existence of a solution of an optimal control problem</i>	(29-32)	1317
Kačurovskii, R. I. <i>Three theorems on nonlinear equations involving monotone operators</i>	(33-36)	1322
Kozlova, Z. I. <i>Projective sets in topological spaces of weight τ</i>	(37-40)	1326
Mil'man, V. D. and Mil'man, P. D. <i>Fixed points of noncompact mappings</i>	(41-44)	1330
Nalimov, V. I. <i>A priori estimates of solutions of elliptic equations in the class of analytic functions</i>	(45-48)	1334
Toom, A. L. <i>A family of uniform nets of formal neurons</i>	(49-52)	1338
Anfert'eva, E. A. and Čudakov, N. G. <i>Minima of the norm function in imaginary quadratic fields</i>	(255-256)	1342
Arsenin, V. Ja. <i>Optimal summation of Fourier series with approximate coefficients</i>	(257-260)	1345
Bžihatlov, H. G. and Nahušev, A. M. <i>A boundary value problem for a mixed equation of parabolic-hyperbolic type</i>	(261-264)	1349
Bobylev, N. A. <i>The construction of regular guiding functions</i>	(265-266)	1353
Gerštein, V. M. and Krasnosel'skii, M. A. <i>Structure of the set of solutions of dissipative equations</i>	(267-269)	1356
Džavadov, M. G. <i>Asymptotic behavior of the solution of a boundary value problem for the biharmonic equation</i>	(270-273)	1360
Ibragimov, N. H. <i>On the group classification of differential equations of second order</i>	(274-277)	1365
Lifšic, E. A. and Sadovskii, B. N. <i>A fixed-point theorem for generalized condensing operators</i>	(278-279)	1370
Maĭorov, I. V. <i>A nonlinear system of equations of mixed type</i>	(280-283)	1373
Mihaĭlov, V. P. <i>A boundary value problem for a system of Navier-Stokes equations</i>	(284-287)	1377

(Contd.)

Available From The American Mathematical Society
Vol 9, No 6, Nov-Dec, 1968

DOKLADY AKADEMII NAUK SSSR
Vol 183, No 1-6, 1968

	Russian page nos.	Page
Molčanov, V. F. <i>Analogue of the Plancherel formula for hyperboloids</i>	(288-291)	1382
Sobolevskii, P. E. <i>Differential equations with unbounded operators generating nonanalytic subgroups</i>	(292-295)	1386
Sternin, B. <i>Boundary value problems of Sobolev type for elliptic operators</i> ...	(296-299)	1391
Vinogradov, V. S. <i>On Liouville's theorem for generalized analytic functions</i>	(503-506)	1395
Dezin, A. A. <i>Nonexistence of certain solvable extensions</i>	(507-510)	1400
Efimov, B. <i>Extremally disconnected bicompaeta of continuum π-weight</i>	(511-514)	1404
Ibragimov, I. A. <i>Complete regularity of multidimensional stationary processes</i>	(515-516)	1408
Kačurovskii, R. I. <i>Tihonov's fixed-point principle and equations with operators weakly closed on a kernel</i>	(517-520)	1411
Lozanovskii, G. Ja. <i>Some topological properties of Banach lattices and reflexivity conditions for them</i>	(521-523)	1415
Paršin, A. N. <i>Algebraic curves over function fields</i>	(524-526)	1419
Berman, D. L. <i>Generalization of a formula of M. Riesz</i>	(743-746)	1423
Vainberg, M. M. <i>Nonlinear equations with potential and monotonic operators</i>	(747-749)	1427
Gavriljuk, V. T. and Remez, E. Ja. <i>A theorem on interpolation functions which provides a fundamental approach to the treatment of general analogs of the method of successive Čebyšev interpolations</i>	(750-753)	1431
Dubnov, V. L. <i>Maslov's canonical operator for hyperbolic equations</i>	(754-757)	1435
Zabreiko, P. P. and Povolockii, A. I. <i>Eigenvectors for the Hammerstein operator</i>	(758-761)	1439
Kruškal', S. L. <i>On the moduli of Riemann surfaces</i>	(762-764)	1443
Krylov, A. I. <i>The Cauchy problem for a second-order equation in two independent complex variables</i>	(765-767)	1447
Larionov, E. A. <i>Nilpotent J-selfadjoint operators</i>	(768-771)	1451
Mikljukov, V. M. <i>Certain classes of mappings on the plane</i>	(772-774)	1455
Mogul'skii, E. Z. <i>Completeness of systems of eigenvectors and adjoint vectors of an operator bundle</i>	(775-777)	1458
Mordachev, V. M. <i>Approximation of a function of many variables by a sum of functions of a smaller number of variables</i>	(778-779)	1462
Ramm, A. G. <i>Asymptotic distribution of the eigenvalues of the Schroedinger operator with an increasing potential in domains with infinite boundary</i> ...	(780-783)	1464
Skvortsov, V. A. <i>On Haar series with convergent subsequences of partial sums</i>	(784-786)	1469
Čehlov, V. I. <i>A mixed problem with discontinuous boundary conditions for the wave equation</i>	(787-790)	1472
Širikjan, R. A. <i>The spectrum of nonselfadjoint differential operators</i>	(791-792)	1476
Štogrin, M. I. <i>Regular Dirichlet partitions for the second triclinic group</i>	(793-796)	1479
Ėidel'man, S. D. and Ivasišen, S. D. <i>The Green's matrix of a homogeneous parabolic boundary problem for a system with discontinuous coefficients</i> ..	(797-800)	1483
Beriev, A. D. <i>Imbedding theorems for functional weight spaces</i>	(991-994)	1488
Borok, V. M. <i>Uniqueness classes for the solution of a boundary value problem in an infinite layer</i>	(995-998)	1492
Dubolar', V. K. <i>Dynamical systems with delay</i>	(999-1002)	1496
Elizarov, V. P. <i>Multiplicative closure of a system of elements of a ring of quotients</i>	(1003-1004)	1500

(Contd.)

Available From The American Mathematical Society
Vol 9, No 6, Nov-Dec, 1968

	Russian page nos.	Page
Kiprijanov, I. A. and Ključancev, M. I. <i>Green's functions for problems with Bessel's differential operator</i>	(1005-1007)	1502
Larionov, E. A. <i>On a stability criterion for solutions of differential equations with periodic operator coefficients in a Banach space</i>	(1008-1011)	1506
Sedov, V. N. <i>A variational method for solving nonregular elliptic equations</i> ...	(1012-1015)	1511
Smirnov, S. G. <i>Smooth knots in a manifold of sphere homotopy type</i>	(1016-1019)	1516
Sobolevskii, P. E. <i>Quasilinear equations in a Banach space</i>	(1020-1023)	1520
Borok, V. M. <i>Classes of correct solvability of a boundary problem in an infinite layer</i>	(1239-1242)	1524
Vaiñberg, M. M. <i>The unconditional extremum of functionals and the convergence of a minimizing sequence</i>	(1243-1246)	1528
Golo, V. L. <i>Realization of Whitehead torsion and discriminants of bilinear forms</i>	(1247-1249)	1532
Levitin, E. S. <i>Necessary and sufficient conditions for a given sequence to be minimizing</i>	(1250-1253)	1535
Natanson, G. I. <i>Some cases where Fourier sums give the approximation of best order</i>	(1254-1257)	1539
Parovičenko, I. I. <i>Topological equivalents of the branching hypothesis</i>	(1258-1261)	1544
Poljakov, E. A. <i>Recursive subsets of sets of recursive functions</i>	(1262-1264)	1548
Sirota, S. <i>Topologies on a group product</i>	(1265-1268)	1551
Sobolevskii, P. E. <i>Fractional integration by parts</i>	(1269-1272)	1555
Švarcman, P. A. <i>Analytical properties of a positively directed symplectic curve in the neighborhood of a branch point of its spectrum</i>	(1273-1275)	1559
Partial table of contents for the next issue (Vol. 10, no. 1, January-February, 1969) Russian original		
Tom 184, nos. 1-5		1562-a
Annual Index of Authors, Vol. 9, nos. 1-6, January-December, 1968		I-XII

CORRECTIONS

The author has called attention to the following misprints.

V. N. Gol'dberg, *The appearance of discontinuities in the continuation of solutions of nonlinear mixed problems for hyperbolic equations in the plane*, Vol. 9 (1968), 1260-1264 (Russian pages Tom 182, 1257-1260)

Page 1260 in (5)	$\alpha_i(u(i, T_0))$	should be	$\alpha_i(\tilde{u}(i, T_0))$
line 12 -	$\Pi_{\mathcal{H}}$	should be	$\bar{\Pi}_{\mathcal{H}}$
line 8 -	u	should be	$\tilde{u}$
1261 line 14	$t = T^*$	should be	$t \geq T^*$
1262 line 16 -	$\alpha(\tilde{u}(0, r))\tilde{u}(0, r)$	should be	$\alpha_0(\tilde{u}(0, r))\tilde{v}(0, r)$
1263 line 2	Π_T	should be	$\bar{\Pi}_T$
line 15 -	class $C_2(\Pi_T)$	should be	class $C_2(\bar{\Pi}_T)$
line 14 -	$\{(x, t), 0 \leq x \leq T\}$	should be	$\{(x, t), 0 \leq x \leq t \leq T\}$
line 12 -	in $\Pi_T, 0 < T \leq T_2$	should be	in $\bar{\Pi}_T, 0 < T \leq T_2$

Available From The American Mathematical Society
Vol 9, No 6, Nov-Dec, 1968

SOVIET ELECTROCHEMISTRY

A translation of *Élektrokhimiya*

Volume 4, Number 8

August, 1968

CONTENTS

Engl./Russ.

Electrochemical Behavior of Titanium-Platinum Alloys during Anodic Oxidation. II. Dependence of the Electrochemical Behavior of Ti-Pt Alloys - E. G. Kuznetsova, T. I. Borisova, V. I. Veselovskii, I. I. Kornilov, and K. P. Markovich	811	899
Study of Processes in an Electrochemical Controlled Resistor. I. Analysis of the Characteristics of Electrochemical Controlled Resistors - V. S. Borovkov, P. D. Lukovtsev, and V. A. Panov	818	907
How the Electrical Double Layer Affects Adsorption of Flotation Reagents - I. A. Vainshenker, V. S. Krylov, and V. Ya. Khainman	822	911
The Depolarizing Action of Thiourea in the Electroreduction of Zinc Ions, and Its Influence on the Structure of the Deposit - A. T. Vagramyan and V. N. Titova	826	918
Investigation of the Kinetics of the Anodic Evolution of Chlorine on Nonporous Graphite - R. G. Érenburg and L. I. Krishtalik	832	923
Influence of Preliminary Discharging of Metal Ion on the Polarographic Reduction Waves of Organic Compounds - S. G. Maitanovskii	833	930
Thermodynamics of Anodic Oxidation of Gaseous Hydrocarbons in an Oxide Electrolyte - A. L. L'vov	844	937
Conformal Mapping in Calculation of Secondary Current Distribution in Electrolytic Cells - N. P. Poddubnyi and É. I. Rudenko	849	943
Diagnosis of the Two-Component Electrical Equivalent Circuit for the Electrode-Solution Interface. I - N. P. Gnusin and S. P. Novitskii	856	949
Estimation of the Fraction of Energy of Excess Charges of the Electrical Double Layer in the Adhesion of Metals to Salt and Oxide Melts - A. A. Deryabin, S. I. Popel', V. A. Kuznetsov, and T. N. Prisekina	861	955
Catalytic Evolution of Hydrogen from Acid Solutions of p-Toluidine - G. A. Tedoradze and A. L. Asatiani	866	960
Kinetics of Electrode Processes on an Amalgamated Bismuth Electrode. III. Formation of Univalent Bismuth in Concentrated Perchloric Acid - V. V. Gorodetskii, L. I. Fedortsov, and V. V. Losev	872	967
BRIEF COMMUNICATIONS		
Reaction of Oxygen with Hydrogen on Platinum. I. Reaction Kinetics - V. A. Shepelin, Ts. I. Zalkind, and V. I. Veselovskii	878	975
Investigation of Possibility of Obtaining Photosensitive Antimony Compounds with Alkali Metals by Vacuum-Electrochemical Method - N. K. Borodkina and V. I. Danilkin	881	979
Temperature Dependence of Standard EMF of the Cell $\text{Na}(\text{Hg})_x \text{NaI} \text{AgI}, \text{Ag}$ in Ethanol - V. V. Aleksandrov and T. M. Shikhova	884	981
Theory of Photodiffusion Currents in Solution. II - Z. A. Rotenberg and Yu. Ya. Gurevich	887	984
Study of Intermetallic Compounds by the APN Method. II. Verification of Theoretical Relationships Derived on the System Cu-Zn-Hg - N. A. Mesyats, A. G. Stromberg, and M. S. Zakharov	891	987
Effects of Halide Anions and Organic Compounds on the Kinetics of Hydrogen-Ion Discharge on a Chromium Electrode in Acid Solutions - Ho Ngok Ba and Nguyen Dyk Vi	894	990

(Contd.)

Available From Consultants Bureau

CONTENTS

(continued)

ELEKTROKHIMIYA
Vol 4, No 8, 1968

Engl./Russ.

Cathodic Reduction of Copper and Cobalt on the Platinum Electrode. I. Aqueous Chloride Solutions - S. G. Byalozor	896	993
Study of the Electrochemical Reduction of Carbonyl Compounds of the Aromatic Series by the Method of a Rotating Disc Electrode with a Ring. II. Investigation of the Cathodic Reduction of Benzaldehyde within a Broad Range of pH - L. N. Nekrasov and A. D. Korsun	899	996
Joint Adsorption of Aniline Molecules and Anilinium Ions - S. L. Dyatkina and B. B. Damaskin	903	1000
The Adsorption of Carbon Dioxide on Platinized Platinum in Sulfuric Acid Solutions - I. Podlovchenko, V. F. Stenin, and A. A. Ekibaeva	907	1004
Standard EMF of the Cell $Pt(H_2) HCl AgCl, Ag$ in a Mixture of Ethanol (25%) and Benzene (75%) - V. V. Aleksandrov, L. K. Osipenko, and T. A. Berezhnaya	912	1008
Anomalous Kinetic Effects in Measurements of Contact Potential Differences with a Vibrating Capacitor - L. I. Boguslavskii and V. B. Margulis	917	1013
Influence of the Geometric Form of an Element, Its Linear Dimensions and the Electrode Polarizability on the Cathodic Distribution of Current - N. P. Poddubnyi, Yu. V. Golikov, and Z. N. Rudenko	920	1016
LETTERS TO THE EDITOR		
Potential Dependence of Photoemission Current from a Metal in a Solution - Z. A. Rotenberg, Yu. V. Pleskov, and V. I. Lakomov	926	1022

The Russian press date (podpisano k pechati) of this issue was 7/25/1968.
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 *Élektrokimiya*

Volume 4, Number 9

September, 1968

CONTENTS

	Engl./Russ.
The State of the Surface of the Silicon Electrode in Sulfuric Acid and the Structure of its Double Layer - S. O. Izidorov	927 1027
Polarographic Study of the Kinetics of Electrode Reactions in Solutions of Complex Ions on Dropping Mercury and Amalgam Electrodes 1. Theory. Cathodic and Anodic Reaction Mechanisms Differ - A. G. Stromberg and L. N. Popova	933 1034
The Catalytic Effect of Germanium Ions on the Polarographic Reduction of Some Aliphatic Carbonic Acids - V. N. Epimakhov	937 1039
The Specific Effect of the Nonaqueous Solvents Dimethyl Formamide and Acetic Acid on the Potential of Glass Electrodes - L. S. Ivanovskaya and N. M. Shul'ts	942 1045
Investigation of the Separation Factor for Hydrogen Isotopes on Solid and Liquid Gallium Electrodes - L. A. Belova, V. M. Tsionskii, and É. D. Kuznets	948 1052
An Electrochemical Investigation of the System Gold-Tin in Mercury. 1. Investigation of the Equilibrium and Composition of the Intermetallic Compound Formed - V. Kemulya, A. Dovgird, and Z. Galyus	954 1058
Polarographic Study of Anodic Copper Dissolution - Z. B. Rozhdestvenskaya, O. A. Songina, and I. Kh. Muldagalieva	959 1063
The Behavior of Allyl Alcohol on Platinum and Rhodium Blacks in Alkali Solutions - Zh. I. Bohanova, G. A. Bogdanovskii, and G. D. Vovchenko	963 1067
Investigation of the Mechanism of the Action of Iodine on Organic Semiconductors Based on Polyethylene by the EPR Method - A. D. Grishina, V. S. Chervonenko, and N. A. Bakh	966 1071
Determination of the Parameters of Equivalent Electrode Circuits - I. M. Novosel'skii	971 1077
BRIEF COMMUNICATIONS	
Theory of the Photoimpedance of Electrochemical Systems - Z. A. Rotenberg, Yu. Ya. Gurevich, and Yu. V. Pleskov	978 1086
Electroreduction Kinetics of Phenylglyoxylic Acid - B. N. Afanas'ev	982 1089
The Construction of An Approximate Solution for the Ternary-Electrolyte Problem - V. V. Malev	986 1094
Thermodynamic Properties of Solid Solutions of Silver and Sodium Chlorides - S. V. Karpachev and V. P. Obrosoy	989 1096
Galvanostatic Investigation of Anodic Ionization for Zinc and Zinc Amalgam in Oxalate Electrolytes with Momentary Changes of Current Density - V. I. Kravtsov and V. N. Chamaev	992 1099
Criteria for Showing that Electrode Processes Occur in Stages - V. V. Losev and V. V. Gorodetskii	996 1103
Kinetics of Anodic Oxidation of Aluminium and its Alloys - A. S. Goral'nik	1001 1108
The Adsorption Behavior of Certain Amino Derivatives of Cyclohexane - L. V. Voitenko	1003 1110

(Contd.)

Available From Consultants Bureau

CONTENTS

(continued)

ELEKTROKHIIMIYA Vol 4, No 9, 1968

Engl./Russ

Absorption of Hydrogen and Methanol on a Smooth Iridium Electrode - S. S. Sedova, Yu. B. Vasil'ev, and V. S. Bagotskii	1006	1113
The Analysis of Equivalent Circuits of the Electrode Impedance - E. A. Ukshe	1009	1116
Mechanism for Hydrogen Evolution from Alkaline Solutions at Alkali Metal Amalgam Electrodes Containing Iridium - V. N. Koshunov, A. N. Frumkin, and T. V. Ivanova	1013	1120
Oxygen Diffusion Through a Palladium Membrane and its Effect on Oxidation of Formic Acid - A. G. Polyak, Yu. B. Vasil'ev, and V. S. Bagotskii	1016	1124
Influence of Dimerization of Intermediate Free Radicals on the Polarographic Reduction Waves of Aliphatic Polyenic Aldehydes in Acid Medium - S. G. Mairanovskii, L. A. Yanevskaya, N. V. Kondratova, and G. V. Krishal'	1019	1127
The Equilibrium Exchange Current on a Lead Dioxide Electrode - L. A. Aguf	1022	1130
The Gallium Drop Electrode - N. P. Selekhnova and E. S. Sevast'yanov	1025	1133
Applicability of the Khaikin-Feoktistov Equation to the Electrolytic Reduction of Acrylonitrile - A. P. Tomilov and I. G. Sevast'yanova	1026	1134
The Effect of Solution Composition on the Potential Distribution at the Semiconductor- Electrolyte Interface - R. M. Lazorenko-Manevich	1029	1137
LETTERS TO THE EDITOR		
Direction of Radical Addition in Electrochemical Carboxydimerization - A. G. Kornienko, A. V. Uvarov, L. A. Mirkind, and M. Ya. Fiorshin	1032	1140

The Russian press date (podpisano k pechat) of this issue was 9/9/1968.
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 *Elektrokhimiya*

Volume 4, Number 10

October, 1968

CONTENTS

	Engl./Russ.
A Polarograph Investigation of the Kinetics of Electrode Processes in a Solution of Complex Ions on Dropping Mercury and Amalgam Electrodes. II. Experimental Test of the Theory Using as Examples Ammoniacal and Hydroxylic Complexes of Zinc and Pyrophosphate Complexes of Lead - L. N. Popova and A. G. Stromberg.	1033 1147
Mechanism of Electroreduction of Phosphorus on a Mercury Cathode in Alcoholic Solution - A. P. Tomilov, I. N. Brago, and I. M. Osadchenko	1039 1153
Investigation of the Properties of the Surface of Silicon in the Process of Anodic Passivation in Alkaline Solutions - S. O. Izidinov	1042 1157
Investigation of the Dependence of the Kinetics of Processes of Photopassivation and Photoactivation of Silicon on the Alkali Concentration and Temperature - S. O. Izidinov.	1048 1164
Comparison of the Specific Influence of Formic and Acetic Acids on the Potential of a Glass Electrode - I. S. Ivanovskaya, I. V. Gessen, and M. M. Shul'ts	1055 1172
Electrochemical Investigation of the Gold - Tin System in Mercury. II. Investigation of the Kinetics of Formation of an Intermetallic Compound AuSn - V. Kemulya, A. Dovgird, and Z. Galus	1059 1177
Investigation of Conditions Determining the Type of Conductivity of Organic Semiconductors Based on Polyethylene by the EPR Method. II. A. D. Grishina, V. S. Chervonenko, and N. A. Bakh.	1065 1184
BRIEF COMMUNICATIONS	
On the Potentials of Amalgams of the Rare Earth Metals of the Cerium Group - T. G. Timofeeva and M. G. Sayun	1070 1190
Rotating Disc-Ring Electrode Device with Removable Disc - A. N. Doronin	1073 1193
Effect of Cationic Composition of Electrolyte on Anodic Oxidation of Niobium - V. V. Malygin, A. Ya. Shatalov, and S. V. Kuchin	1075 1194
Chemical Investigation of Behavior of Allyl Alcohol on Rhodium and Palladium Black - G. A. Bogdanovskii, Zh. I. Bobanova, and A. V. Stal'bovskaya	1077 1196
A New Technique for Investigating Superficial Oxides on Metals in Solutions. I. Determination of Sign of Main Charge Carriers and Type of Deviation from Stoichiometry in Superficial Oxides on Metals in Solutions - E. K. Oshe and I. L. Rozenfel'd.	1080 1200
Electrical Conductivity of Hydrated Cupric Nitrate Solutions in Solvents Mixed with Dioxane - B. I. Sazhin, O. K. Kharitonova, and V. P. Shuvaev.	1083 1203
Charging Curves for Palladium Deposited on Calcium Carbonate - G. V. Movsisyan, G. D. Zakunbaeva, and D. V. Sokol'skii	1085 1205
Electrochemical Production of a Gallium-Indium Alloy - S. M. Repinskii, I. E. Medvedeva, and N. I. Varlamova	1088 1208
Recombination Processes at the Germanium-Electrolyte Separation Surface - V. G. Bozhkov and L. D. Kaminskaya	1089 1209
The Investigation of Anodic Oxidation Kinetics of Silver by Chronoamperometry - A. I. Oshe	1093 1214
Maximum Discharge Currents of Cadmium Ions at a Rotating Disk Electrode in Cadmium Nitrate Solutions with a Varying Background Concentration - Ya. V. Durdin and E. S. Svetashova	1097 1217

(Contd)

Available From Consultants Bureau

Kinetics of Methanol Adsorption on a Smooth Iridium Electrode - S. S. Sedova, Yu. B. Vasil'ev, and V. S. Bagotskii	1101	1221
The Shape of Differential Capacity Curves in the Transition from Water to an Organic Solvent - B. B. Damaskin, L. Kishova, and R. V. Ivanova	1104	1224
The Electrochemical Fe (II) = Fe (III) Reaction in Alkali Solutions - I. N. Sherstobitova, B. N. Kabanov, and D. I. Leikis	1106	1226
Faraday Impedance of an Equilibrium Platinum Electrode in Molten Salts - N. G. Bukun, N. S. Tkacheva, and E. A. Ukshe	1111	1231
Polarization of a Nickel Anode in a Solid 0.9 ZrO ₂ - 0.1 Y ₂ O ₃ Electrolyte - M. V. Glumov, A. D. Neumin, and S. F. Pal'guev	1114	1234
Proton Behavior in an Oxide-Nickel Electrode - S. A. Aleshkevich, E. I. Golovchenko, V. P. Morozov, and L. N. Sagoyan	1117	1237
Use of Heat Treatment to Produce Glass Electrodes Sensitive to Solution Oxidation Potential - G. S. Bagdasarova, A. A. Belyustin, A. M. Pisarevskii, and M. M. Shul'ts	1120	1239
Impedance of Gallium and Tellurium Electrodes at Steady-State Potentials - S. V. Kuzovenko, E. V. Nikitin, and F. F. Faizullin	1124	1243
Kinetics of Chlorine Electroreduction in Molten Salts - L. S. Leonova, Yu. M. Ryabukhin, and E. A. Ukshe	1126	1245
Kinetics of Individual Stages of the Oxygen-Reduction Reaction. I. Derivation of Basic Equations - V. S. Bagotskii, V. Yu. Filinovskii, and N. A. Shumilova	1129	1247
Operation of Liquid Porous Electrodes with Forced Reactant Input as a Function of the Reactant Use Coefficient - I. G. Gurevich, Yu. F. Budeka, and V. S. Bagotskii	1134	1251
The Kinetics of Individual Stages in the Reduction of Oxygen. II. Reduction of Oxygen on Silver in Alkaline Solution - G. V. Zhutava, N. D. Merkulova, N. A. Shumilova, and V. S. Bagotskii	1136	1253
Determining the Adsorption of Ions on Platinum by the Method of Adsorption Potentials. I. Adsorption of Br ⁻ from Acid Solutions - O. A. Petrii and Yu. G. Kotlov	1139	1256
Rate of Cathodic Injection of Alkali-Metal Atoms as a Function of Atomic Size - N. N. Tomashova, I. I. Astakhov, I. G. Kiseleva, and B. N. Kabanov	1143	1260
LETTERS TO THE EDITOR		
The Role of Adsorption of a Substance on the Electrode Surface in Organic Electrosynthesis. I - A. P. Tormilov, L. A. Fedorova, V. A. Klimov, and G. A. Tedoradze	1146	1264
M. V. Smirnov (On the Occasion of His Fiftieth Birthday) - S. V. Karpachev and B. G. Rossokhin	1147	1265
CHRONICLES		
[Signs of Galvanic Cell Tensions, Chemical Tensions (or Electromotive Forces), and Electrode Tensions (or Electrode Potentials) - <i>Electrochimica Acta</i> , 12, 748 (1967)		1267

The Russian press date (podpisano k pechatu) of this issue was 9/26/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

Page

Part 1
ELEKTROSVYAZ
Vol 22

Yu. F. Marchenko: Calculation of RF Noise in FM Multichannel Link Systems	1
V. I. Shiyapoberskiy and D. L. Tikhomirov: Noise Immunity of Code Pulse Regeneration Systems	8
V. Ya. Kontorovich: Noise Immunity of Binary Data Reception in Fading Channels Subject Simultaneously to Normal Fluctuation and Non-Gaussian Noise	13
V. A. Grigor'yev: Discussion of Main Link Receiver Design Principles	17
Ya. S. Rodionov and V. S. Gubenko: The Potentialities of Short-Term Ionospheric Forecasting for Communications Purposes	20
K. M. Ryabov: Folded Dipoles	24
L. P. Yaroslavskiy: Optimal Parameters of PTM and FM for Fixed Picture Transmission	31
V. A. Antinenko: Simplified Methods for Calculating Nonlinear Distortion and Oscillator Tube Operating Conditions when Amplifying a Single-Sideband Signal	35
G. G. Ogul'chanskiy: Calculation of the Electromagnetic Influence between Single-Wire Lines Approaching One Another Obliquely	40
L. G. Maloratskiy and L. R. Yavich: Design of Symmetric Eight-Poles	46

BRIEF COMMUNICATIONS

V. D. Chesnokova: Polarization Diversity of Signals Scattered in the Ionosphere	50
O. S. Kognovitskiy: Determination of the Detection Capacity of a Duplex Binary Code	53
V. G. Vol'p'yan: Interrelation between Phase-Frequency and Amplitude-Frequency Characteristics and Their Instabilities for Cascade Connections of Tuned Networks	55
B. G. Stel'mashenko: Symbol Grouping During the Period of a Pseudorandom Binary Sequence	59
S. K. Savin: Use of FM and PM Signals for Obtaining Combination Frequencies	61

Part 2
RADIOTEKHNIKA
Vol 23

A. N. Denisenko: Short-Time Correlation Function and Short-Time Energy Spectrum of a Random Process	65
N. Z. Shvarts and V. I. Uvarkh: New Relationships for the Synthesis of Chebyshev Bandpass Matching Ladder Circuits with Nonresonant Sections	68
V. G. Yampol'skiy: Directional Properties of an Electric Dipole Lying Near a Reflecting Cylinder	71
M. V. Vamberskiy and V. I. Kazantsev: Design of H-Plane Waveguide Y-Circulators	76
V. I. Anisimov: Analysis of Transistor Circuits by a Graph Method	82
Yu. M. Davydov: Simultaneous Transmission of a Signal and Noise Through Differential Frequency Discriminators, (Part 2)	86
G. Ye. Red'kin: Calculation of the Currents in the Capacitors of the Artificial Line of a Pulse Modulator	92
F. A. Kashin, T. M. Nemeni and N. N. Slepov: Errors in Magnetic Recording Caused by Tape-Speed Instability	98

(Contd)

Available From The Institute of Electrical and Electronics Engineers

	Page
V. N. Shkalikov: Bistable Regions in an Oscillatory Circuit with a p-n Junction	102
N. N. Lunacharskiy and V. G. Pozdnyakov: Recirculator with Variable Feedback	108
R. M. Romanova: Equivalent Circuit of a Turned-On Varactor	111
Yu. A. Volkov and V. A. Korolev: Two-Stage Transistor Amplifiers with Common Feedback . .	116
N. F. Vollerner and V. I. Voznenko: Selecting Optimum Parameters for Radio-Electronic Equipment	121
V. P. Sigorskiy: Theorem of the Determinant of a Sum of Matrices and Its Application in Expressing the Coefficients of Polynomials of Functions of an Electronic Circuit	126
V. A. Likharev and Ya. A. Furman: Determining the Mean Number of False Targets in the Scanning Sector	132
V. F. Lubentsov, Yu. A. Yemel'yanov and V. A. Yemel'yanov: Measurement of the Phase Instability of Ferrotransistor Frequency Dividers	136
G. M. Vaynshteyn: Balloon Station for Relaying Television	140

BRIEF COMMUNICATIONS

V. I. Vol'man, N. D. Kozyrev and V. I. Redechkin: Five-Arm Waveguide Circulator	141
A. A. Lyakhovkin and V. V. Shakhgil'dyan: Reply to V. P. Sizov's Letter	143
I. P. Zhrebtsov: Serious Deficiencies in a Much-Needed Handbook	144
Twenty-Fourth All-Union Scientific Conference of the Popov Society	145

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

ELEKTROSVYAZ I RADIOTEKHNIKA

1969

NUMBER 11

Page

Part 1 ELEKTROSVYAZ Vol 22

A. A. Pirogov: Optimal Keying Rate and Capacity in Time- and Frequency-Disturbed Channels	1
B. I. Chirkov: Influence of Sync Failure on the Noise Immunity of an RPSK Receiver with Predetector Integration	4
A. A. Shur: Effect of the Ground on Signal Correlation in Space Diversity Reception of Ultra-Short Waves	9
G. Z. Aizenberg, L. K. Olfin, A. A. Tsvetayev and Yu. I. Romanov: Rotatable Broadcast Antenna	12
V. D. Kuznetsov and V. K. Paramonov: A Broadband Balancing and Matching Device	20
E. S. Glazman: Generation of Television Transmitter Frequency Responses	25
Yu. F. Korobov: Noise Immunity of an RPSK Telegraph Meteor Channel	30
E. Ya. Ryskin: Nonlinear Distortion of an FM Signal in a Multipath Medium	36
B. M. Lobanov: Automatic Separation of Hiss Sounds from Clipped Speech Signals	42
P. M. Kopylov: Comparative Analysis of the Efficiency of Phase-Control Components in Nonlinear Distortion Correctors	47
Yu. V. Belotsvetov and A. G. Belousov: Circuit of a Crystal-Controlled FM Oscillator	50

BRIEF COMMUNICATIONS

L. A. Belov: Influence of Automatic Phasing on the Transients in a Tuned Amplifier Resulting from Arbitrary Input Signal Phase Jumps	54

LETTER TO THE EDITOR

K. A. Meshkovskiy: Advantages of Avoiding the Concept of Signal Volume in Communications	57

Part 2 RADIOTEKHNIKA Vol 23

The Fifty-First Anniversary of the October Revolution	59
S. S. Sudakov: Theory of the Structural Synthesis of Linear Radio Networks	60
V. M. Volkov, B. I. Kurilin and V. A. Kazantsev: Stabilization of the Phase Characteristic of a Parallel Tuned Circuit	64
V. V. Martsafey: Incidence of a Plane Electromagnetic Wave on a Thin Dielectric Layer	67
S. S. Sviridenko: Distortions of a Barker Signal in an Ideal Linear System and an RC-Filter	70
A. G. Orlov: Calculation of the Noise of Nonreciprocal Distributed Lossy Multiports	74
M. V. Vamberskiy and V. I. Kazantsev: Design of Decimeter Wavelength Strip-Line Y-Circulators	77
I. D. Zolotarev: Transmission of Radio Pulses with an Exponential Envelope through an n-Stage Tuned Amplifier	82
A. Voynar: Nonlinear Analysis of Frequency Modulation Reception Below the Noise Threshold	87

(Contd)

Available From The Institute of Electrical and Electronics Engineers

RADIOTEKHNIKA
Vol 23, No 11, Pt 2, 1968

	Page
I. S. Andronov: Noise Immunity of FSK Reception in a Channel with Selective Fading	91
P. A. Berezelyatskiy: Reflex Autodyne Theory	99
L. B. Silkin: Effect of Periodic Parameter Variation on the Correcting Performance of a Resonance-Type Phase System	165
P. G. Tager: Frequency-Independent Reproduction of Oscillation Amplitude in Multichannel Transmission	110
V. P. Sigorskiy: Hybrid Matrix of an Electronic Circuit	112
V. A. Melitskiy: Mean Number of Axis Crossings of the Polarization Coefficient Modulus	121
M. M. Belokopytov, A. Ya. Oboimov and I. A. Popov: Thermal Resistance between the Transistor Case and Heat Sink	125
BRIEF COMMUNICATIONS	
V. M. Rozov: Telegraph-Speed Variation in the Reception of Fading Signals	127
FOR THE ENGINEER	
V. S. Andreyev and K. V. Nevzorovskiy: Low-Frequency Parametric Amplifier	129
LETTERS TO THE EDITORS	
A. Tishenko	134
The 24th All-Union Scientific Conference on the Popov Society	135
P. V. Omel'chenko: Scientific Conference in Minsk Devoted to the 50th Anniversary of the Belorussian Soviet Socialist Republic	138

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)
a. ctg	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

ENDOKRYNOLOGIA POLSKA
Vol 19, No 1-2, 1968

W. Gąsiorowski: The influence of administration of thyroid preparations on uptake of ¹³¹ I labeled triiodothyronine by red blood cells (Preliminary report)	1
W. Gąsiorowski: Uptake of ¹³¹ I labeled triiodothyronine by red blood cells (Hamolsky test) in patients with hyperthyroidism, treated with radio-active iodine	8
H. Hubner, A. Margolis, J. Bodalski and L. Olszowska: A case of Turner's syndrome in a girl with diabetes, karyotype XX and presence of XXq ⁸ cells	13
S. Witoszyński: Evaluation of hypophysis-adrenal reserves after prolonged corticotherapy	18
J. Tynecki, H. Zrubek, S. Koziejowski: Comparative studies on the content of desoxyribonucleic acid and estrogens in the uterine muscle and estrogens in the urine of parturient women with normal and weak labor activity	25
J. Maciejewski, M. Walczak, A. Waligóra: Glomerular filtration and plasma flow through the kidneys in individuals with Turner's syndrome	34
J. Maciejewski, M. Walczak, A. Waligóra: Some indexes of renal function with reference to water and electrolyte metabolism in individuals with Turner's syndrome	38
M. Pawlikowski, E. T. Romer: Sex chromatin in the form of metaphasal chromosome X?	43
K. Miętkowski, L. Malendowicz: The influence of a single dose of stilbestrol dipropionate injected in newborn male rats on the hypophysis	45
W. Hartwig, W. Massalski, A. Kasperlik-Zaluska, B. Międalska, M. Szamatowicz, J. Jakowicki: Hormonally active carcinoma of the adrenal cortex treated with o,p'-DDD	57
J. Teter, L. Weintraub, E. Radwańska: The syndrome of premature ovarian failure	70
E. Radwańska, L. Weintraub, E. Ładygin, K. Krzywdziński, L. Bablok: Evaluation of the hypophyseal-ovarian axis in the diagnosis of the syndrome of premature ovarian failure	78
L. Weintraub, J. Teter, E. Radwańska: Exploratory laparotomy in the diagnosis of the syndrome of premature ovarian failure	84
J. Kąsy, J. Teter, K. Boczkowski: Testicular dysgenesis in a boy with signs of Turner's syndrome	91
J. Kolaszyński, M. Pawlikowski: The pars nervosa of the hypophysis in the white rat in the course of regeneration of the adrenal gland	97

Available From CFSTI TT 68-50007/1-2

FIZIKA TVERDOGO TELA EDITORIAL BOARD
 A. I. Aseev
 A. S. Borovik-Romanov
 L. N. Dobrotvina
 L. P. Gor'kov
 O. V. Konstantinov
 M. I. Kornfeld
 (Associate Editor)
 L. I. Korovin
 (Secretary)
 M. I. Kravinskiy
 M. A. Kurovskiy
 G. V. Kordyaman
 I. M. Lifshits
 Ch. B. Lushchik
 A. N. Golov
 P. F. Prykhatcha
 A. R. Bagil'
 S. M. Zhurav
 G. A. Smolenskiy
 V. M. Turchanovich
 B. N. Yashchen
 V. S. Vasil'ev
 L. F. Verashchagin
 S. N. Zhurav
 (Editor)
 Leningrad State University
 V. P. Zhurav

Soviet Physics SOLID STATE

A Translation of "Fizika Tverdogo Tela"

(Russian Original Vol. 10, No. 10, pp. 2899-3194, October, 1968)

Vol. 10, No. 10, pp. 2293-2536

April, 1969

		PAGE	RUSS. PAGE
Vibrational Spectrum of Crystals Having the Rutile Structure, and Nonanalytic Behavior of the Limiting Dipole Frequencies. <u>M. S. Shur and Yu. N. Tsarev</u>	(T)	2293	2899
The Effect of Paramagnetic Impurities on the Critical Field of a Superconductor. <u>S. L. Ginzburg</u>	(T)	2299	2906
Ferromagnetic Resonance in Lithium Ferrite-Aluminate Crystals. <u>Yu. M. Yakovlev, É. V. Rubal'skaya, and B. L. Lapovok</u>	(E)	2301	2909
The Decay of a Volume and Surface Plasmon with the Excitation of an Electron-Hole Pair. <u>V. M. Agranovich and M. A. Mekhtiev</u>	(T)	2304	2913
Photoelectric Phenomena in Degenerate Semiconductors with Electron Heating by Light. <u>V. N. Abakumov, R. I. Lyagushchenko, and I. N. Yassievich</u>	(T)	2309	2920
Anharmonic Interactions in a Lattice with Impurities in the Presence of Localized and Quasilocalized Vibrations. <u>A. A. Klochikhin and A. V. Subashiev</u>	(T)	2316	2922
Propagation of Ultrasound in a Semiconductor in the Presence of a High-Frequency Electric Field. <u>É. M. Épshtein</u>	(T)	2325	2945
Anisotropy of the Paramagnetic Curie Point in Hexagonal Ferrites. <u>K. P. Belov, L. I. Koroleva, and L. P. Mitina</u>	(E)	2329	2950
Magnetic Resonance in the Uniaxial Ferromagnet $RbNiF_3$. <u>E. I. Golovenchits, V. A. Sanina, and A. G. Gurevich</u>	(E)	2334	2956
Irreversible Losses Arising during Repeated Back-and-Forth Motion of Dislocations. <u>V. S. Boiko, R. I. Garber, and L. F. Krivenko</u>	(E)	2342	2968
Influence of Redistribution of the Electric Field on the Amplification of Acoustic Waves in Semiconductors. <u>V. L. Gurevich, R. Katilyus, and B. D. Laikhtman</u>	(T)	2347	2975
Conversion of Ultrasonic into Electrical Oscillations by KCl Single Crystals. <u>Kh. M. Khalilov, Ya. Sh. Palagashvili, A. I. Agaev, and V. M. Zuev</u>	(E/T)	2356	2977
Moving Excited States in Organic Semiconductors (Derivatives of Tetra Tetracyanoquinodimethane). <u>R. M. Vlasova, I. A. Smirnov, L. S. Sochava, and A. I. Sherle</u>	(E)	2359	2990
Dispersion and Damping of Electromagnetic Waves in Mixed Molecular Crystals. <u>V. I. Sugakov</u>	(T)	2361	2995
Electron-Nuclear Double Resonance of A Centers in Mixed KCl+LiCl Crystals. <u>N. P. Baran, M. F. Deigen, S. S. Ishchenko, M. A. Ruban, and V. V. Udod</u>	(E)	2370	3005

(Contd)

Available From The American Institute of Physics
Vol 10, No 10, April, 1969

RUSSIAN JOURNAL OF PHYSICS
Vol 10, No 10, 1968

		RUSS. PAGE	PAGE
Electron Scattering by Neutral Acceptors in Semiconductors. L. E. Blagosklonskaya, E. M. Gershenzon, Yu. P. Ladyzhinskii, and A. P. Popova	(T/ E)	2374	3010
Molecular Motion in Solid Dioxane and Its Complexes. Yu. I. Rozenberg.	(E)	2379	3017
Luminescence of Beryllium-Doped Silicon Carbide. V. I. Sokolov, V. V. Makarov, E. N. Mokhov, G. A. Lomakina, and Yu. A. Vodakov.	(E)	2383	3022
Hall Effect in Polaron Semiconductors. Yu. A. Firsov.	(T)	2387	3027
Photomechanical Destruction and Lifetime of Irradiated Stressed Polymers. G. G. Samoilov and É. E. Tomashevskii.	(E)	2395	3039
Influence of Dislocations on Electrical Conductivity and Electromagnetic Effects in Metals. É. A. Kaner and É. P. Fel'dman	(T)	2401	3046
Electrical Conductivity of a Crystal Plate with a Many-Valley Carrier Energy Spectrum. Yu. I. Gorkun and É. I. Rashba.	(T)	2406	3053
Process of Formation of the Anneal-Induced Dislocation Structure in the Surface Region of a Lithium Fluoride Single Crystal. T. V. Kuskova, E. I. Raikhel's, and I. V. Smushkov.	(E/ T)	2411	3060
Thermal Diffusion of Vacancies in Crystals. B. S. Bokshstein, A. A. Zhukhovitskii, and Yu. S. Nechaev	(T/ E)	2417	3068
Investigation of the Energy Structure of MgO by Ultrasoft X-Ray Spectroscopy. V. A. Fomichev, T. M. Zimkina, and I. I. Zhukova	(E)	2421	3073
Photoconductivity of Single Crystals of MnO. I. A. Drabkin, L. T. Emel'yanova, R. N. Iskenderov, and Ya. M. Ksendzov	(E/ T)	2428	3082
Quantum Oscillations of the Kinetic and Photoelectric Coefficients on n-Type Bismuth Telluride (Bi ₂ Te ₃). R. V. Parfen'ev, V. V. Sologub, and B. M. Gol'tsman	(E)	2432	3087
Method of Investigating the Oxidation Kinetics of Metals. I. N. Shklyarevskii, L. A. Ageev, V. P. Kostyuk, and I. L. Rachinskii.	(E)	2439	3097
Temperature Dependence of the Elastic Constants of Heavily-Doped Gallium Arsenide. V. M. Beilin, Yu. Kh. Vekilov, and O. M. Krasil'nikov.	(E)	2443	3101
X-Ray Diffraction Study of HgTe. V. I. Ivanov-Omskii, B. T. Kolomiets, L. I. Kleshchinskii, and K. P. Smekalova	(E)	2447	3106
BRIEF COMMUNICATIONS			
Quadrupole Displacement of the NMR Line in Imperfect Cubic Crystals. Yu. A. Grinchenko and B. L. Timan	(T)	2450	3110
Dependence of Dielectric Properties of SnSi on Temperature and on Hydrostatic Pressure. E. I. Gerzanich and V. M. Fridkin	(E)	2452	3111
Magnetic Properties of Mn-Ga Alloy Powders. A. V. Deryagin, G. S. Kandaurova, and Ya. S. Shur	(E)	2454	3113
Visualization of Microbreakdowns on Cleaved Surfaces of Quenched NaCl Crystals. Yu. M. Gerasimov, V. G. Govorkov, and G. I. Distler	(E)	2456	3115
Variational Calculation of the Energy Levels of a Hydrogen-like System in a Magnetic Field. E. P. Pokatlov and M. M. Rusanov	(T)	2458	3117
Anisotropy of Magnetization of the Hexagonal Ferrite BaCo ₂ TiF ₁₄ O ₂₇ . T. M. Perekalina, A. D. Shchurova, and V. P. Cheparin	(E)	2460	3119
The Resistance Anomaly of Ferromagnetic and Antiferromagnetic Metals near the Magnetic Ordering Point. V. M. Nabutovskii and A. Z. Patashinskii	(T)	2462	3121
Prebreakdown Processes in Polycrystalline Calcium Titanate. K. I. Pavlushenko	(E)	2465	3124
Instability of Nonlinear Ferromagnetic Resonance. Yu. S. Lifanov, Ya. A. Monosov, and V. V. Surin	(E)	2467	3126

(Contd)

Available From The American Institute of Physics
Vol 10, No 10, April, 1969

		PAGE	RUSS. PAGE
Magnetophonon Oscillations of Transverse Magnetoresistance in n-Type Germanium. N. G. Gluzman and I. M. Tsidil'kovskii	(E/T)	2469	3126
Nature of the Central Spot on H_v Diffraction Patterns of Spherulites. Yu. V. Brestkin, B. M. Ginzburg, I. T. Moneva, and C. Ya. Frenkel'	(T)	2471	3130
Concentration Dependence of the Spin-Lattice Relaxation Time in Ruby at Liquid Helium Temperatures. V. A. Milyaev	(E)	2473	3132
Motion of a Dislocation Loop in an Ionic Crystal in an External Electric Field. I. G. Margvelashvili, R. A. Polyani, and Z. K. Saralidze	(T)	2475	3134
Effect of Dislocations on the Decomposition of Solid Solutions of Elements of the Copper Group in Indium Arsenide. B. I. Boitaks and S. I. Rembeza	(E)	2477	3136
Strong-Field Domain Parameter Change Times during Small Displacement Field Changes. M. S. Shur	(T)	2479	3138
Thermal Expansion of Substances Having a Defect Structure of the $A_2^{III}B_2^{VI}$ Type and the Antifluorite Structure. S. I. Novikova	(E)	2481	3141
Theory of Scattering of Slow Neutrons in Paramagnets in a Strong Magnetic Field. I. A. Akhiezer and B. I. Barts	(T)	2483	3142
Interaction of Excitons with Optical Phonons in the Photoconductivity Process. B. V. Novikov, V. I. Safarov, and M. L. Shubnikov	(E)	2484	3144
Effect of Neutron Radiation on Dislocation Mobility in LiF Crystals. A. A. Urusovskaya and M. Perzhinova	(E)	2487	3146
Possibility of Using Alkali-Halide Crystals for the Amplification of Light. A. Ya. Goikhman and Yu. M. Popov	(E)	2489	3148
Change in the Refractive Index of Ruby Due to Population Inversion. N. A. Anisimov and G. L. Kononchuk	(E)	2491	3150
Ionization of Diamagnetic Excitons and Quantum Effects in the Valence Band of Germanium. B. P. Zakharchenya, R. P. Seisyan, and A. V. Varfolomeev	(E)	2493	3153
Dielectric and Elastic Properties of Single Crystals of $BaTiO_3$ - $PbTiO_3$ Solid Solutions. L. K. Bunina and A. Yu. Kudzin	(E/T)	2496	3156
Specific Heat of Single-Crystal RbH_2PO_4 . M. Amin and B. A. Strukov	(E)	2498	3158
The Josephson Effect in a Very Dirty Superconductor. A. A. Golub	(T)	2501	3160
Widths of Coulomb-Center Levels in a Strong Magnetic Field. S. D. Beneslavskii	(T/E)	2503	3162
Electrical Conductivity of Ferrites in High Electric Fields at Superhigh Frequency. S. A. Ismailov, A. B. Davydov, and A. A. Samokhvalov	(E)	2505	3164
Quenching Defects and Hardening of Polycrystalline Copper. I. A. Malinenko and O. N. Shvirin	(E)	2507	3166
Spectral X-Ray Sensitivity, Energy of Formation of a Carrier Pair, and Quantum Yield in Polymorphic Systems Based on Lead Oxide. M. L. Galantseva and V. A. Izvozchikov	(E)	2509	3168
Dependence of the Density-of-States Effective Mass on the Current-Carrier Concentration and Temperature in the n-Type Solid Solution $0.85 PbTe + 0.15 PbS$. S. Kasimov and A. R. Regel'	(E)	2513	3171
Electrical Conductivity and Density of the Bismuth-Antimony System in the Liquid State. F. Gaibullaev, M. Mamadalliev, A. R. Regel', and Kh. Khusanov	(E)	2516	3174
Oxidation of Tungsten at Room Temperature. V. F. Rybalko, V. Ya. Kolot, and Ya. M. Fogel'	(E)	2518	3176
Experimental Determination of the Valence of Titanium at Cubic Centers in CaF_2 . M. M. Zaitov and V. G. Stepanov	(E)	2520	3178
Calcium Stannate - A Source for Mössbauer Measurements. A. V. Kalyamin, B. G. Lur'e, G. V. Popov, and Yu. F. Romanov	(E)	2522	3180

(Contd)

Available From The American Institute of Physics
Vol 10, No 10, April, 1969

FIZIKA TVERDOGO TELA
Vol 10, No 10, 1968

			RUSS.
		PAGE	PAGE
Thermal Expansion of Crystalline Krypton near the Triple Point. <u>V. G. Gavrilko,</u> <u>V. G. Manzheli, V. I. Kuchnev, and A. M. Tolkachev.</u>	(E)	2524	3182
Deposition of AlSb Semiconducting Films. <u>L. S. Palatnik and P. N. Bogatov</u>	(E)	2526	3184
Ferromagnetic Resonance in Single Crystals of Lithium Cobalt Ferrites. <u>G. A. Petrakovskii, I. K. Pukhov, V. N. Seleznev, and A. I. Drokin</u>	(E)	2528	3186
Determining the Vacancy Concentration in an Alkali Halide Crystal Containing a Divalent Impurity. <u>V. S. Mandel'</u>	(E)	2530	3188
Activation Energy for Migration of Ag and Au Atoms along Natural Cleavage Surfaces of Mica. <u>V. S. Postnikov, V. M. Ievlev, and I. V. Zolotukhin.</u>	(E)	2531	3189
Change in Dislocation Structure in Slip Bands of LiF Crystals upon Annealing. <u>I. N. Zhukin and B. I. Smirnov.</u>	(E)	2534	3192

Available From The American Institute of Physics
Vol 10, No 10, April, 1969

FOLIA MORPHEOLOGICA
Vol 27, No 3, 1968

K. Zajusz: Achievements of Polish morphology in studies on silicosis and other conioses	251
J. Jonck: Enzymologic studies in industrial medicine	256
M. Stelmasiak, S. Bryc, Z. Wójcik: The radiologic picture and morphology of the jugular foramen	264
J. Osemlak, W. Obel: Osteometry of the scapula in man, <i>Macacus rhesus</i> and <i>Macacus cynomolgus</i>	270
A. Metera, Z. Wójtowicz: Morphology of the sphenoid bone in <i>Macacus rhesus</i>	280
C. Wiland: Basilar arteries of the brain in the domestic rabbit	288
W. Fortak, J. Woźnicki: Adaptation of leukocyte cultures from small amounts of complete blood for cytogenetic studies by the method of "inoculation" of previously prepared medium	296
J. Roszkiewicz, S. Zawistowski: Histochemical studies on the kidneys of white rats under conditions of overdosage of vitamins D ₂ and D ₃	301
A. Limanowski, R. Trojanowicz: The influence of a single dose of stilbestrol dipropionate on the seminal vesicles in the rat	312
A. Mikołaczyk, D. Pawełek: Histochemical changes in the epithelium of the prostate gland and seminal vesicles in castrated rats under the influence of testosterone	322
M. Krauze, T. Niebrój, H. Wacławczyk, R. Wawryk: The behavior of some enzymes in the human amniotic epithelium in the course of pregnancy	332
J. Jaśkowski, W. Woźniak: Myelinated fibers of the hypogastric nerves in the dog	340
H. Podskarbi: Further simplification of the silver impregnation method for detecting the Golgi apparatus	346
W. Olszewski, S. Zajac, Z. Machowski, J. Sokołowski: The method of D. D. Zerbino for staining lymphatic vessels	348
H. Szukiewicz: The teaching of anatomy in secret medical schools in Warsaw under the German occupation during World War II	353

Available From CFSTI TT 68-50002/3

GEOLOGIYA NEFTI I GAZA
Vol 7, No 11, 1965

1. Distribution of oil and gas pools in the section of the sedimentary cover of the USSR.
By V. G. Vasil'yev and A. A. Khanin p. 601
2. Direction of exploration for oil-gas structures in the Buzuluk depression and adjacent regions.
By V. I. Kalinin et al. p. 605
3. Use of detailed paleogeological maps in exploration for oil and gas pools.
By V. A. Dolitskiy and Y. V. Kucheruk p. 611
4. Principles of tectonic regionalization in connection with exploration.
By Yu. M. L'vovskiy p. 617
5. Problem of determining the time of formation of gas pools.
By A. Ya. Edel'shteyn p. 620
6. Oil recovery of strata as dependent on volume of water flowing through the pool.
By V. S. Melik-Pashayev et al. p. 623
7. Determination of the volumes of reservoirs that differ in lithologic-physical properties.
By A. A. Valuyskiy et al. p. 630
8. Application of seismic surveying to recognition of productive part of gas-oil strata.
By V. V. Churlin and L. A. Sergeyev p. 636
9. Combined geophysical logging in the West Siberian Lowland.
By Yu. L. Brylkin and L. A. Sigal p. 642
10. Combined geophysical logging of wells in Western Cis-Caucasus.
By V. K. Popov p. 646
11. Improved methods of geophysical investigation of carbonate sediments of the Volga-Ural region.
By V. G. Dvoretzkiy et al. p. 651
12. Determination of oil-water saturation and position of the water-oil contact in carbonate reservoirs of fields of the Kuybyshev region by radiometric methods.
By L. Z. Tslav and V. V. Laptev p. 657
13. Study of the structure of the western border of the Caspian depression by the seismic method.
By B. N. Lutsenko p. 660

- * - * - * -

Available From Petroleum Geology

GEOLOGIYA NEFTI I GAZA
Vol 7, No 12, 1963

1. Oil gas prospects of the Zhetysay synclinalorium.
G. P. Ovanesov et al. p. 663
2. Structure of the eastern part of the Zhigulev swell in
connection with its oil prospects.
V. N. Andreyev et al. p. 668
3. Development of the Kamasko-Kinel depression.
A. L. Vorozhbit and V. N. Finansov p. 672
4. Oil and gas exploration on the Kama dome.
I. M. Yurchuk p. 676
5. Distribution of permeability in the main productive horizons
of the oil field of the Ural-Volga.
A. V. Belov p. 680
6. Geology and oil productivity of the clastic Devonian
sediments of the Novo-Yelkhov field in Tataria.
P. A. Krashina p. 686
7. Through-going faults on the Tatar dome.
V. V. Popovich p. 689
8. Geothermal characteristics of the Tuymazy oil field.
Selim Zaydan p. 693
9. Combined geophysical methods for investigating the border
area of the Kamasko-Kinel depression.
Yu. A. Byakov and S. A. Shikhov p. 699
10. Natural radioactivity of the sedimentary rocks of several
areas of Azerbaydzhan .
A. O. Martirosova p. 701
11. Discordant occurrence of upper Frasnian sub-stage in the
western part of the Volgograd region.
P. A. Karpov et al. p. 706
12. Stratigraphic chart of the Danian stage, Paleogene, and
lower Miocene of the western part of Central Asia.
Ye. K. Shutskaya et al. p. 710
13. Soviet-Pakistani cooperation in oil exploration.
M. Khayyauddin p. 713

- * - * - * -

Available From Petroleum Geology

GLASNIK HEMISKOGRADSKOG DRUŠTVA - BEOGRAD
Vol 32, No 1, 1967

SYMPOSIUM ON BIOCHEMISTRY

	Page
P. Berček-Tomašević, M. Stanić, and V. Terzić: Polymerization Properties of Thetin-Homocysteine-Methyl-Transferase	3
I. Pejković-Tadić, M. Hranisavljević-Jakovljević, and M. Marić: The Influence of Glucosamine Configuration on the Activity of Transoxymase	3
V. M. Galogadze: Properties of Invertase From a Thermotolerant Strain of <i>Saccharomyces cerevisiae</i>	4
S. Grujić and B. Belić: Nucleotide Composition of Ribonucleic Acid From Subcellular Fractions of Corn Seedlings	5
D. Zivanov and M. Mladenović: Thin-Layer Chromatography of Beta-Sitosterols From <i>Helleborus odorus</i> Oil	5
M. Stefanović, M. Lj. Mihailović, J. Foršček and Lj. Lorenc: Transformations of Steroidal 3-Keto- 4 Beta, 5-Beta-Epoxides	6
Dj. Stefanović, M. Stefanović and O. Gašić: Study of Raw Sugar Beet Saponin	7
A. Repaš and B. Nikolin: Separation of Glucosides and Carbohydrates of the Salicaceae Family on Sephadex Gel and a Colorimetric Determination of Sa- licin	7
A. Repaš and K. Dursun Grom: Thin-Layer Chromatography of Amino Acid Esters on Cellulose and Silica Gel	8
D. Murko: Biogenesis of Tannin in Leaves of Native <i>Rhus cotinus</i> L.	8
S. Ramić, D. Murko, Z. Devetak, and M. Hadžimusić: Extractable Materials in <i>Geranium macrorrhizum</i> L.	8
J. Grujić-Vasić and M. Deželić: Analytics of Natural Coumarins	9
Vera Božić Stamatović: Fractional Determination of Neutral 17-Ketosteroids in Urine	9
S. Smiljanski: Hemicellulose From Beech Sulphate Cooking Liquor	10

(Contd.)

INORGANIC AND ORGANIC CHEMISTRY

M. B. Celap, M. J. Malinar and T. J. Janjić: Study on the Reaction of Erdmann's Salt with Amino Acids. I. The Synthesis of Trinitroglucosaminocobaltates (III). Trini-

Available From CPSTI TT 67-58015/1

GLASNIK HEMIJSKOG DRUŠTVA - BEOGRAD

Vol 32, No 1, 1967

troalaninatoamminecobaltates (III) and Trinitro (Alpha-Aminobutyrate)-Amminecobaltates (III)	Page 11
<i>M. B. Čelap, F. A. Čoha and T. J. Janjić:</i> Study on the Reaction of Hexanitrocobaltates (III) with Amino-Acids. IV. The Reaction with DL-Norvaline, L-Leucine and DL-Isoleucine	12
<i>M. B. Čelap, D. J. Radanović, T. J. Janjić and R. Radivojša:</i> Study on the Reaction of Hexanitrocobaltates (III) with Amino-Acids. V. Determination of the Configuration of Dinitrodialaninatocobaltates (III), Dinitrois (Beta-Alaninate) Cobaltates (III), Dinitrois (Alpha-Aminobutyrate) Cobaltates (III), and Dinitrois (L-Leucinato) Cobaltates (III)	12
<i>S. Radosavljević, V. Šćepanović, and M. Jovanović:</i> Investigation of Aluminum (II) Fluoride Solution	13
<i>M. Stefanović, A. Jokić and I. Mićović:</i> Synthesis of Steroidal Sapogenins and Alkaloids	14
<i>M. Deželić, M. Trković, M. Hadžimusić and M. Janković-Zovko:</i> Condensation Reaction of Polyhydroxycoumarins with Aldehydes and Fatty Acids	14
<i>M. Deželić and K. Dursun-Grom:</i> Hydrazones of Some Substituted Pyrrolealdehydes	15
<i>F. Böberg and J. Jovanović:</i> Demonstration of the Structure of the 1,2-Dithiacyclohexadiene System	15
<i>Dj. Dimitrijević, O. Stojanović, and A. Tot:</i> Concentration Ratio of cis- and trans-2- Butene in the Reaction Product Obtained by Catalytic Dehydrogenation of n-Butane	16
<i>A. Tot and Dj. M. Dimitrijević:</i> Alkylation of Benzene with Olefins	16
<i>S. Radosavljević, D. Vasović and S. M. Radosavljević:</i> Reaction of Polydimethylsiloxanes with Aluminum Alkoxide	17
<i>V. Dragović-Božović:</i> Grafting Polyacrylates on Cellulose Acetate in Acetic Acid Solution	17
<i>S. Jovanović:</i> Depolymerization of Cotton Cellulose in the Course of Treatment with Sodium Hydroxide Solution	18

PHYSICAL CHEMISTRY

<i>J. M. Živojinov:</i> Determination of the Constant in the Equation of State of Inert Gases	19
<i>J. M. Živojinov:</i> Equilibrium Between a Solid and Its Vapor	19
<i>T. Čeranić and M. Šušić:</i> Adsorption Properties of Cobalt (II) Ferrocyanide	20
<i>V. Radak, M. Šušić, and Z. Maksimović:</i> Sorption on A-Zeolite From Nonaqueous Media	20
<i>M. Jančić, C. Petrović, and D. Trifunović:</i> Kinetics of Formation of Ni ₂ Al ₃ and NiAl ₃ - and NiAl ₃ Phases	20

(Contd)

Available From CFSTI TT 67-58015/1

GLASNIK HEMIJSKOG DRUŠTVA - BEOGRAD

Vol 32, No 1, 1967

	Page
A. R. Despić and D. Jovanović: Study of Kinetics of the Reaction $\text{Sn}^{2+}/\text{Sn}^{4+}$ at Mercury Electrode by Analogue Computer	21
K. I. Popov-Sindelić and M. V. Vojnović: Electrochemical Deposition of Monolayers of Metal on an Inert Metal Electrode	21
D. S. Orein, K. I. Popov-Sindelić, and M. V. Vojnović: Polarographic Behavior of Silver in Sulphite Solutions.	22
D. S. Orein, M. V. Vojnović, and K. I. Popov-Sindelić: Anodic Dissolution of Mercury in Sulphite Solutions at Different pH-Values	22
M. Pješčiš and M. Sušić: Reduction of Arsenic (III) at Dropping Mercury Electrode	22
Z. Pavlović and D. Popović: Study of the Effect of Cl^- -Ions on the Passivity of PR 11 Steel	23
Z. Pavlović and R. Popović: Behavior of Ni^{2+} -Ions in Sulfate Solutions	24
S. Stojadinović: The Effect of Various Cations as Aggressors on Cemented Mortar	24
D. Delić and S. Joksimović-Tjapkin: Application of Rotating Disk in Study of Kinetics of Heterogenous Catalytic Reactions	25

ANALYTICAL CHEMISTRY

Lj. Bogunović, S. Radosavljević, and V. Rekalic: Determination of Sulphides, Polysulphides, Sulphites and Thiosul- phates in Waste Water	26
M. Jovanović and M. Dragojević (Mrs): Argentometric Determination of $\text{K}_3[\text{Fe}(\text{CN})_6]$ Using the Depolari- zation End Point	26
O. Vitorović and A. R. Despić: Determination of Copper in the Presence of Iron by Corrosimetric Titration with EDTA	27
V. Vajgand and O. Knežević: Determination of Pd^{2+} with EDTA by Direct Potentiometric Titration	27
D. J. Stojković and J. L. Đurić: Determination of Sulphuric and Tartaric Acid in Mixtures, and the Application of This Method to the Study of Ion-Exchange Se- paration Efficiency	28
V. Vajgand and V. Nikolić: Determination of Novalgin in Aqueous Solutions	28
V. Vajgand, D. Pockova, and R. Mihajlović: Polarographic and Coulometric Determination of Novalgin	29
V. Golubović and V. Rekalic: Determination of Indium in Yugoslav Materials	29
A. Ghonaim and M. Sušić: Polarographic Behavior of Niobium in the Presence of Complexon	30

(Contd)

Available From CFSTI TT 67-58015/1

GLASNIK HEMIJSKOG DRUSTVA - BEOGRAD
Vol 32, No 1, 1967

	Page
V. B. Golubović and M. M. Jovanović: Spectrophotometric Determination of Microgram Quantities of Copper in Some Mineral Waters of Serbia	30
F. Sigulinski and M. Stevanović: Methods for the Determination of Grases of Fission	31
D. B. Stevančević and G. T. Hajduković: Extraction of Gold and Its Determination in Ores by Radioactiva- tion Analysis	31
Z. Ubović and D. Paligorić: Determination of Tritium in Human Urine by Liquid Scintillation Method	32
D. Janković and Lj. Dobrilović: Radiochemical Method for the Determination of ^{226}Ra in Human Urine	32

RADIOCHEMISTRY AND RADIATION CHEMISTRY

Dj. Bek-Uzarov and Lj. Dobrilović: Measurements of the Radioactivity of Electron-Captured Nuclides by the 4π X-Method	33
K. Buraj and Dj. Bek-Uzarov: Some Data Obtained in a Study on Energy Efficiency of a Propor- tional Counter	33
B. Radak: An Approach to G-Value Evaluation in Mixed Pile Radiation	34
V. Marković: Chemical Dosimetry of In-Pile Radiation. A New Method for Routine Measurements	34
V. Marković: Use of the Aqueous Oxalic Acid Dosimeter for Routine Measure- ments in Multi-Megarad Region of Gamma Absorbed Doses	35
M. Nenadović and Z. Draganić: Radiolysis of Oxygenated Oxalate Solutions in Heavy Water. The Influence of pH on Primary Yields of Heavy Water Radiolysis	35
O. Mičić and Z. Draganić: Radiolysis of Water: Some Comparative Measurements of Primary Radiolysis Products in D_2O and H_2O	36
S. M. Milenković and S. R. Veljković: Behavior of Recoil ^{51}Cr in Irradiated Anionic Doped Potassium Chromate	36
Lj. Jačimović and S. Veljković: Effect of Radiation Damage of Al_2O_3 on Its Adsorption Capacity	37
D. S. Ristić and J. D. Dimitrijević: Autoradiographic Studies on the Adsorption of I-131, S-35 and Co-60 on Various Materials	37
Z. Vuković and O. Janković-Gaćinović: State of Radioactive Cobalt (^{60}Co) in the Effluents Produced by Decontaminating Parts of the Primary System of the Ra Reactor at Vinča	38

(Contd)

Available From CFSTI TT 67-58015/1

GLASNIK HEMIJSKOG DRUSTVA - BEOGRAD

Vol 32, No 1, 1967

O. Janković-Gaćinović and Z. Vuković:	Page
Entrapment of Radioactive Strontium by Rapid Precipitation of SrCO_3 and CaCO_3	38
A. Švabić, P. Radovanov and Lj. Janković:	
Investigation of the Effect of Chromate and Phosphate Anions on the Cation Exchange of ^{60}Co in the Presence of Ni, Al and Fe Ions	39
T. Tasovac and R. Radosavljević:	
Behavior of ^{60}Co Released into a Stream	39
Z. Todorović and Z. Radosavljević:	
The Use of Radioisotopes in the Production of Self-Luminous Materials	40

CHEMISTRY AND TECHNOLOGY OF SILICATES

D. Delić and M. Tecilazić-Stevanović:	
The Temperature Coefficient of the Equilibrium Constant of the Cation Exchange Reaction of Montmorillonite	41
S. Bošković, M. Gašić, V. Nikolić, B. Živanović and M. M. Ristić:	
Kinetic and Structural Changes of Talc During Heating	41
V. Nikolić, S. Bošković, M. Gašić, F. Sigulinski and S. Malčić:	
Production of Zircon-Cordierite Ceramics for Metal-Layer Resistors	42
Č. Sužnjević and S. Marinković:	
Kinetics of Graphite Oxidation with Chromic Acid and Its Application for the Determination of Structural Defects	42
S. Marinković, Č. Sužnjević, V. Petrović, S. Malčić and I. Dežarov:	
Pyrolytic Deposition of Carbon Under Different Experimental Conditions	43
J. Momčilović, Š. Kiš and D. Cerović:	
Kinetics of Sintering of Ni-Zn-Ferrites	43
M. Tomić, S. Malčić and Š. Kiš:	
Structural Investigations in the $\text{NiO-ZnO-Fe}_2\text{O}_3$ System	44
Lj. Petrović, M. Tomić, S. Malčić and Š. Kiš:	
Reactions in the $\text{NiO-Fe}_2\text{O}_3$ System Containing Fe_2O_3 in Excess	44
M. Radulović, V. Petrović and Š. Kiš:	
Determination of Microstructural Characteristics of Ferrites	45
J. Pavlović and Š. Kiš:	
Study of Fertilization of the $\text{MnO-Fe}_2\text{O}_3$ System	45
V. Bačić and Š. Kiš:	
Preparation of Ferrite Powder for Pressing	46
J. Katanić-Popović and M. Stevanović:	
Thermal Conductivity of UO_2	46
J. Vogt and B. Živanović:	
Vibratory Compaction of Ceramic Nuclear Fuel	46
M. Stevanović:	
Recovery of Irradiated Sintered MgO	47
S. Bošković, M. Gašić, V. Nikolić and M. M. Ristić:	
Formation of Protocrenstatite and Cordierite in Ceramic Masses of the $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ System	47

(Contd)

Available From CFSTI TT 67-58015/1

METALLURGY

	Page
B. Dronjak: Transformation Kinetics and Structural Changes of the Zircalloy-2 During Continuous Cooling	46
O. Nešić and Dj. Lazarević: Transmission Electron Microscopy Investigation of Effect of Annealing of Secondary Phases in U-1%Mo Alloy	47
Dj. Milosavljević: Effect of Curvature of the Solid-Liquid Interface on Radial Microsegregation During Directional Solidification	49
M. Jovanović: The Influence of Thermal Treatment on the Size and the Distribution of Second Phase Particles in Dilute Uranium	49
B. Bošić and N. Vidojević: Decomposition of Austenite of Hadfield Steel with a High Manganese Content	50
B. Djurić: Growth Rate of Proeutectoid Beta Phase in a Uranium-Niobium Alloy	50
Dj. Milosavljević: Direction of Cellular Growth as a Function of the Curvature of the Solid-Liquid Interface	51
Lj. Nedeljković, M. Jovanović and R. Obradović: Electrometric Determination of Sulfur in Iron and Steel by a Combustion Method	51
V. G. Logomerac: Conditions for the Production of Charcoal Pig Iron	51
M. Branković: Shrinking of Grey Cast Iron	52
B. Mišković and M. Mišković: The Effect of the Final Rolling Temperature on the Deformation Capacity of FeSi 3, 2 Alloy	52
M. Spasić, D. Vučurović, I. Ilić, and R. Vračar: Hydrometallurgical Treatment of Copper Tailings Obtained in the Flotation of Bor Copper Ores	53
M. Spasić, D. Vučurović, R. Vračar, and I. Ilić: Investigation of the Possibility of Obtaining Manganese from Poor Manganese Ores at Novo Brdo, Kopaonik	53
J. Krišto: The Influence of Zinc Content in Manganese Concentrate on the Utilization of Manganese in the Reduction Process, and on the Quality of Ferromanganese	53
S. Blečić: Thermomechanical Treatment of Cu 58 Zn Pb Brass in the Plastic State	54
B. Djurković and D. Sinadinović: Metallurgical Concentration and Production of Indium from Intermediates of Zinc Production	54
D. Čveković: The Behavior of Walls and Individual Bricks of Refractory Linings of Various Metallurgical Furnaces	55

(Contd)

Available From CPSTI TT 67-58015/1

GLASNIK HEMIJSKOG DRUSTVA - BEOGRAD
Vol 32, No 1, 1967

CHEMICAL ENGINEERING

	Page
M. Mitrović, M. Bećić and B. Djordjević: Heat Transfer from a Flat Horizontal Vibrating Disk During Boiling	55
A. Dedijer: Contribution to the Theory and Practice of Sealing by Modeling . . .	56
V. Alić: Improvement of Unit Operations in the Production of Antibiotics . .	57
A. Dedijer: Optimization of Process Design by Means of a Mechanical Mathe- matical Model	58

TEXTILE CHEMISTRY AND TECHNOLOGY

B. Đokić: Dyeing of "Malon" Fiber in the Presence of Alcohol	59
D. Đokić and R. Trajković: The Effect of Thermal Treatment of "Malon" Fiber on the Adsorp- tion of Dyes	59
D. Đokić and S. Korać: Stabilization of Polyamide Textile Fabrics	60
R. Runac, Lj. Popović and V. Mijović: Decomposition Kinetics of Some Fluorescent Dyes for the "Optical Bleaching" of Cellulose Textile Fabrics Under UV Irradiation . . .	60
Lj. Popović, V. Mijović and R. Runac: The Application of Dimethylol Derivatives of Ethylenecarbamide and Dihydroxyethylenecarbamide for the Modification of Propert- ies of Cellulose Textiles	61
V. Mijović, R. Runac and Lj. Popović: Change of the Consistency of Sodium Dodecylsulphonate Paste . . .	61
D. Đokić and B. Tirnanić: Determination of the Stability of Sodium Hydrosulphite as Reduc- ing Agent for Vat Dyes	62

Available From CFSII TT 67-58015/1

GLASNIK HEMIJSKOG REPOSITARA - BEOGRAD
Vol. 32, No 2-3-4, 1967

	Page
<i>Aleksandar Đurđić and Petar M. Rakin:</i> Methodological Aspects of the Study of Complex Chemical Reactions. III. Estimation of Plausibility of Different Intermediate States and Unit Steps	5
<i>Slobodan M. Ristić and Jelica M. Baranac:</i> On the Spectrochemical Determination of the Anthocyanosides of Hybrid Origin	17
<i>Slobodan M. Ristić, Jelica M. Baranac and Aurora A. Muk:</i> Study of Behavior of Cationic Form of Pelargonidin in Hyperacidic Media	31
<i>Dragica S. Ovcin, Milan V. Vojnović and Konstantin I. Popov:</i> Anodic Dissolution of Mercury in Sulphite Solutions at Different pH Values	43
<i>Dragica S. Ovcin, Milan V. Vojnović and Konstantin I. Popov:</i> Polarographic Behavior of Silver in Sulphite Solutions	57
<i>Srbobran R. Rajić:</i> Spectrophotometric Determination of Platinum and Rhodium in Glass Wool	67
<i>Verica D. Rajković:</i> Calculation of True Concentrations of the Measured Components in the Surface Layer of a Specimen for Quantitative X-Ray Diffraction Analysis of Powder Mixtures	73
<i>Verica D. Rajković:</i> The Influence of Specific Gravity and Grain Size Distribution on the Selective Sedimentation in Powder Specimens for Quantitative X-Ray Diffraction Analysis and on the Shape of the Calibration Curve	85
<i>Miroslava M. Jančević:</i> Synthesis of 4-Hydroxy-4'-Iodothiobenzanilide	95
<i>Mira J. Glavač and Tibor J. Ribar:</i> Thermolysis of Some Acetylacetonates	99
<i>Miroslav N. Turčić, Danica B. Botić and Velimir D. Čanić:</i> Volatile Acids in the Aroma of Yoghurt	107
<i>Velimir D. Čanić, Suzana E. Petrović, and Slobodan M. Petrović:</i> Separation of Pyridine-Carboxylic and Pyridine-Dicarboxylic Acids by Thin-Layer Chromatography	115

Available From CPSTI TT 67-58015/2-3-4

IZVESTIYA AKADEMIYE NAUK SSSR, ATMOSFERA I OKEANOLOGICHESKIY
Vol 4, No 10, 1968

	Page	
	English	Russian
V. M. BOVSHEVEROV AND M. I. MORDUKHOVICH, An Acoustic Thermometer-Interferometer for Measuring Temperatures in the Stratosphere	587	1019
YU. A. VOLKOV, V. D. KUKHARETS AND L. R. TSYANG (ZWANG), Turbulence in the Atmospheric Boundary Layer above Steppes and Sea Surfaces	591	1026
L. V. PETROVA, Certain Problems Concerning the Formation of the Long-Wave Radiation Flux in the Presence of a Solid Cloud Bank	600	1042
T. G. ADAMS AND V. I. DIANOV-KLOBOV, Molecular Parameters of the O ₂ Absorption Band at 0.7620 μ and Their Use in Calculating the Transmission Function	605	1052
V. N. BAKULIN AND YE. YE. SENKO, The Determination of Turbulence Parameters from the Vertical Distribution of T _n and T _h in the Lower Layer of the Atmosphere	610	1060
B. N. BOLGURTSEV, Surface and Deep Circulation of Antarctic Water in the Pacific Ocean	615	1070
YU. A. GORBUNOV AND L. A. TIMOKHOV, Investigation of Ice Dynamics	623	1086
V. YE. PRIVAL'SKIY, Forced Oscillations of the Level of the Southern Baltic Sea and Their Relation with Variations in the Atmospheric Pressure and Wind	627	1092
I. V. CHERKESOV, On the Problem of Tsunamis in a Sea with Continuously Varying Density	632	1101
SHORT COMMUNICATIONS		
M. B. GALIN, On the Behavior of Planetary-Scale Waves in Atmospheric Models	636	1110
M. V. KABANOV, B. A. SAVEL'YEV AND I. V. SAMOKHVALOV, Polarization of OPG (Optical Photon Generator) Radiation Scattered by Fog and Smoke	640	1116
G. F. SITNIK AND A. I. KILYSTOV, Determination of the Electronic Transition Probability of the Red "Atmospheric" System of the O ₂ Molecule Bands	643	1120
S. V. NESTEROV, Excitation of Finite-Amplitude Waves by a Traveling Pressure System	646	1123
EDITORIAL BOARD, Viktor Antonovich Bugayev (On His Sixtieth Birthday)	648	1126

Available From The American Geophysical Union

IZVESTIYA AKADEMIYE NAUK SSSR, ATMOSPHERY I OKEANOLOGICHESKIY
Vol 4, No 11, 1968

	Page	
	English	Russian
G. S. GOLITSYN, Estimates of Some Characteristics of the General Circulation in the Atmospheres of the Terrestrial Planets	651	1131
V. M. KADYSHNIKOV, The Construction of a Multilevel Short-Term Weather-Prediction Model, Stable in Regard to Initial Data	655	1139
S. M. OLEVSAYA, The Use of the Canonical-Correlation Method in Analyzing the Geopotential Field	661	1149
V. S. KOMAROV, The Statistical Structure of Vertical Humidity Profiles	666	1160
S. D. ANDRIYEV AND A. G. PORBOVSKIY, The Theoretical Infrared Spectra of H ₂ O and CO ₂ as Compared with Laboratory Measurements	671	1169
B. M. GOLUBITSKIY, S. O. MIRUYANTS, M. V. TANTASHEV AND V. I. FILIPPOV, System for Studying the Spectral Transparency of the Atmosphere in the Infrared Spectral Region	676	1179
L. M. ROMANOVA, Light Field in the Boundary Layer of a Turbid Medium with Strongly Anisotropic Scattering Illuminated by a Narrow Beam	679	1185
V. S. FIDUSENKO AND L. V. CHERKESOV, Internal Waves from Submarine Turbulences	686	1197
SHORT COMMUNICATIONS		
A. M. IL'YIN AND N. K. SILKIN, The Energy Integral of the Equation System for the Quasi-Geostrophic Approximation	690	1204
N. P. KRASYUK, V. I. ROZENBERG AND D. A. CHISTYAKOV, Attenuation and Scattering of Radio Waves by Raindrops of Various Origins	693	1209
N. T. GLINSKIY, V. F. BARLANOVSKAYA AND R. D. GASANOVA, The Adjustment of the Air-Temperature Field to the Water-Temperature Field	696	1214
D. L. LAYKHTMAN (LEICHTMANN), Nonlinear Theory of Wind-Induced Ice Drift	700	1220
R. V. OZMIDOV, The Dependence of the Horizontal Turbulent Exchange Coefficient in the Ocean on the Scale of the Phenomenon	703	1224
CHRONICLE		
O. I. KASATRINA AND L. B. KRASIL'SHIKOV, The Seventh All-Union Conference on Actinometry and Atmospheric Optics	705	1226

Available From The American Geophysical Union

IZVESTIYA AKADEMIYE NAUK SSSR, FIZIKA ZEMLI
№ 10, 1968

	Page	
	English	Russian
V. N. ZHARKOV, V. M. LYUBIMOV AND A. I. OSNACH, Perturbation Theory for Free Oscillations of the Earth	583	3-16
M. V. GZOVSKIY AND A. A. NIKONOV, The Quantitative Characteristics of Contemporary and Recent Tectonic Movements in Regions of Different Tectonics and Seismicity	590	17-33
P. L. WILLMORE, E. P. ARNOLD AND N. V. KONDORSKAYA, Research at the International Seismological Center: Present State and Development	600	34-44
O. V. SOBOLEVA, Effect of the Asymmetry of the Focal Radiation upon the Distribution of the Displacements around the Epicenter of a Deep Earthquake	607	45-56
S. YU. BRODSKAYA, Gamma-Radiation Induced Changes in the Magnetic Properties of Ferrimagnetic Minerals	614	57-63
L. N. BOLTNEVA, V. A. IONOV, R. M. KOGAN, I. M. NAZAROV, V. P. CHIRKOV AND A. F. YAKOVLEV, Airborne γ -Spectrometry of Cesium-137 in Global Radioactive Pollution of Various Territories	618	64-70
SCIENTIFIC COMMUNICATIONS		
K. V. PSHENNIKOV AND L. A. MISHARINA, On the Development of Two Shear Surfaces in an Earthquake Focus	622	71-78
YE. F. SAVARENSKIY AND A. B. PESHKOV, The Use of Surface Wave Velocities for Selection of Models of Crustal Structure	628	79-87
L. A. GUBARENKO AND A. V. STAKLO, Determination of the Scale Division of a Vibrating String Gravimeter by Calculation	634	88-90
L. A. GUBARENKO AND K. YA. KOZ'YAKOVA, Calibration of Vibrating String Gravimeters by the Tilt Method	637	91-94
E. A. BOYARSKIY AND M. G. KOGAN (COHEN), Linear Smoothing of Measurements Made with Marine Gravimeters	640	95-100
L. S. AL'PEROVICH, Magnetosonic Wave Rays in the Earth's Magnetosphere	644	101-103
E. K. YAKUBAYLIK, The Dependence of the Magnetic Viscosity of Magnetite on a Demagnetizing Field	646	104-106
DISCUSSION		
B. A. PETRUSHEVSKIY, The Right Approach to Earthquake Prediction	648	107-113
CHRONICLE		
V. I. BUNE, The Organization of Work on a Seismicity Map of Europe	653	114-116
E. A. NOVIKOV, Specialized International Sources of Geophysical Information	655	118-118

Available From The American Geophysical Union

IZVESTIYA AKADEMII NAUK SSSR METALLOV
No 1, 1968

The journal covers ferrous and non-ferrous metallurgy, including ore beneficiation, extraction and refining, mechanical properties at ordinary and elevated temperatures, alloy compositions and structures, effects of impurities and methods of purification, methods of testing both for routine examination and for research investigations, etc. Increasing attention is being paid to metals and alloys with new properties, such as, very high strength, resistance to high temperatures, radiation and corrosion, superconductor and semiconductor materials.

Bimonthly

© Scientific Information Consultants Ltd., 661 Finchley Road, London, N.W.2

LIST OF CONTENTS

1968, No. 1.

	Page	Orig. transl.
Drozhilov L.A., Sokolov G.A., Tsylev L.M. TEMPERATURE DISTRIBUTION ABOVE THE BED IN THE PRODUCTION OF STRONG FLUXED SINTER (Abr.tr.)	3	4
Tatsiyenko P.A., Nevoysa G.G., Basantsev G.P. COMPOSITION AND METALLURGICAL PROPERTIES OF KERCH SINTERS (Abr.tr.)	17	14
Utkov V.A., Kashin V.V., Sapozhnikov A.A. PROPERTIES AND PHASE COMPOSITION OF HIGH-MAGNESIA HIGHLY BASIC SINTERS (Abr.tr.)	30	19
Bazilevich S.V., Barzukov O.P. ANALYSIS OF CONDITIONS DURING SINTER AND PELLET BREAKDOWN IN A DRUM WITH BAFFLES (Abr.tr.)	34	21
Volkov A.A., Itkin V.P., Mikhalevich A.G. ELECTRICAL CONDUCTIVITY OF SINTER (Abr.tr.)	42	25
Shavrin S.V., Zakharov I.N., Ipatov B.V., Gladyshev V.I., Lekontsev Yu.A. DISTRIBUTION OF VANADIUM, TITANIUM AND SULPHUR BETWEEN PIG IRON AND SLAG (Abr.tr.)	48	28
Popel' S.I., Pavlov V.V., Shakirov K.M. DETERMINATION OF THE MASS TRANSFER RATE AND OF THE REACTION CONDITIONS IN AN OPEN HEARTH FURNACE BOIL (Abr.tr.)	55	31
Belyayev A.I. (decd.), Nisel'son L.A., Petrusevich I.V. PREPARATION OF METALS, ALLOYS, COMPOUNDS AND SEMI-CONDUCTORS BY REDUCTION OF HALIDES WITH HYDROGEN ON A HEATED SURFACE (Abr.tr.)	65	38
Rodyakin V.V., Skrypnuk V.M., Kushkin B.N. RESIDUAL CHLORINE IN MAGNESIUM-REDUCED TITANIUM SPONGE (Abr.tr.)	72	42
Shiryayev V.I., Tomilin I.A. PREPARATION OF IRON SPECIALLY PURE WITH REGARD TO CARBON AND NITROGEN CONTENT (Abr.tr.)	79	(46 Contd)

Available From The Scientific Information Consultants Ltd.

IZVESTIYA AKADEMII NAUK SSSR METALLY
No 1, 1968

Ershov G. S., Kovalenko A. M. ADHESION OF NITRIDES TO LIQUID ALLOY STEELS AND SLAGS (Abr. tr.)	84	47
Zadumkin S. N., Dekhov M. P. SURFACE ENERGY OF METALS AT THE CRYSTAL-MELT INTERFACE (Abr. tr.)	91	52
Fogel' A. A., Sidorova T. A., Korkin I. V., Mezdrogina M. M. OBTAINING A PREDETERMINED STEADY-STATE TEMPERA- TURE DURING FUSION OF A METAL IN LEVITATION (Abr. tr.)	96	54
Gayev I. S., Sheyanova Ye. V. SOLIDIFICATION AND RECRYSTALLISATION OF CAST MOLYB- DENUM AND MOLYBDENUM-BASE ALLOYS (Abr. tr.)	107	61
Pavlov I. M., Chiang Shao-chia EXPERIMENTAL INVESTIGATION OF LONGITUDINAL SLIP BETWEEN METALS AND ROLLS DURING ROLLING (Abr. tr.)	115	66
Ural'skiy V. I., Tretyakov V. Ye. INVESTIGATION OF THE OSCILLATIONS DURING TUBE DRAWING	123	70
Chizhikov Yu. M. THE DETERMINATION OF THE PARAMETERS IN THE PRO- CESS OF ROLLING BY DIMENSIONAL ANALYSIS (Abr. tr.)	127	73
Gulyayev A. P., Kozlova N. A. EFFECT OF δ -FERRITE ON THE STABILITY OF AUSTENITE AND THE PROPERTIES OF STAINLESS STEEL AT CRYOGE- NIC TEMPERATURES (Abr. tr.)	130	74
Pridantsev M. V., Kotik E. M., Koshelev P. F., Kudryashov V. G., BEHAVIOUR OF STEEL 35-GS AT LOW TEMPERATURES	135	77
Gridnev V. N., Petrov Yu. N. POSSIBLE MECHANISMS OF CARBIDE TRANSFORMATION DURING TEMPERING OF HIGH-CARBON STEELS (Abr. tr.)	138	80
Lozinskiy M. G., Romanov A. N. THE DEVELOPMENT OF DEFORMATION IN IRON SUBJECTED TO CYCLIC LOADING AT ELEVATED TEMPERATURE (Abr. tr.)	142	84
Gurevich S. Ye. CYCLIC STRENGTH AS A CRITERION OF THE SENSITIVITY OF METAL TO STRESS CONCENTRATION UNDER FATIGUE CON- DITIONS	148	87
Abramyan E. A., Ivanov L. I., Yanishkevich V. A. INFLUENCE OF THE TYPE OF DEFORMATION ON THE CREEP MECHANISM IN METALS AT ELEVATED TEMPERA- TURE (Abr. tr.)	155	94
Shakhnazarov Yu. V. THE STRENGTH OF NOTCHED SPECIMENS AFTER VARIOUS TYPES OF THERMOMECHANICAL STRENGTHENING (Abr. tr.)	158	96
Livshits B. G., Solodikhin V. I. INFLUENCE OF THE OXYGEN CONTENT OF (MAGNETIC) ALLOYS ON THE EFFECTIVENESS OF THERMOMAGNETIC TREATMENT	160	98
Zakharov A. M., Savitskiy Ye. M. INVESTIGATION OF THE EQUILIBRIUM DIAGRAM OF THE Mo-Ti-C SYSTEM IN THE MOLYBDENUM-RICH RANGE (Abr. tr.)	162	100 (Contd)

Available From The Scientific Information Consultants Ltd.

IZVESTIYA AKADEMII NAUK SSSR METALLOV
№ 1, 1968

Drita M. Ye., Kadaner E.S., Kuz'mina V.I. SOLUBILITY OF SILICON AND ZIRCONIUM IN ALUMINIUM (Abr.tr.)	170	102
Kornilov I.I., Volkova M.A. PHASE EQUILIBRIUM IN THE Ti-Al-V SYSTEM (Abr.tr.)	176	105
Tatarayeva Ye.M., Panov O.S. EQUILIBRIUM DIAGRAM OF THE Zr-Ta-V SYSTEM (Abr.tr.)	181	108
Beisashchenko D.K., Gotgil' T.L., Lyubimov A.P. THE STRUCTURE OF LIQUID Ti-Bi ALLOYS (Abr.tr.)	192	112
Zelikman A.N., Kotlyar A.A., Kuznetsov Yu.G. DIFFUSION OF RHENIUM IN TUNGSTEN (Abr.tr.)	197	116
Shinyayev A.Ya. DIFFUSION OF NICKEL IN Ni-Nb ALLOYS	203	120
Vandyshev B.A., Panov A.S. DIFFUSION OF SULPHUR IN NIOBIUM (Abr.tr.)	206	123
Eremenko V.N., Lukashenko G.M., Peletskaya R.I. SOME THERMODYNAMIC PROPERTIES OF MAGNESIUM- COPPER COMPOUNDS	210	126
Nikitin V.I. INTERGRANULAR CORROSION BY LIQUID METALS CAUSED BY DIFFERENTIAL DISSOLUTION (Abr.tr.)	213	129
Kuznetsov Ye.A., Ignatov D.V. ELECTRON DIFFRACTION INVESTIGATION OF THE OXIDA- BILITY OF CONTACT ALLOYS BASED ON PLATINUM, GOLD SILVER AND PALLADIUM (Abr.tr.)	218	133
Zagorskaya T.N., Ivanovskiy G.F., Lyakhovich T.K. GAS EVOLUTION FROM MOLYBDENUM AT ELEVATED TEMPERATURES	221	136
Bogoslovskiy S.S., Krestovnikov A.N. THE VAPOUR PRESSURE OF CALCIUM (Abr.tr.)	226	139

Available From The Scientific Information Consultants Ltd.

IZVESTIYA AKADEMII NAUK SSSR OKEANOLOGIYA
Vol. 8, No. 2, 1968

	Page	
	English	Russian
M. N. Sokolova: Relationships between Feeding Groups of Benthopelagic Macrobenthos and the Composition of Bottom Sediments	141	179
Ye. V. Solyankin: Variability of Oceanological Conditions in the Southern Hemisphere	151	192
N. I. Chalyshova: Computing Tidal Currents in the Nearshore Zone	155	198
V. F. Sukhovoy and A. P. Metal'nikov: The Deep-Sea Water Exchange between the Caribbean Sea and the Atlantic Ocean	159	203
V. Ye. Prival'skiy: On Forced Oscillations of Sea Level in the Baltic	165	210
N. P. Morozov: Geochemistry of Rare Alkaline Elements in the Oceans and Seas	169	216
B. A. Skopintsev, N. N. Romenskaya and M. V. Sokolova: Organic Carbon in the Waters of the Norwegian Sea and of the Northeast Atlantic	178	225
V. I. Volovov, P. V. Gulyayev and V. A. Sechkin: New Data on Sound Reflection from the Indian Ocean Floor	186	235
V. V. Orlenok: Crustal Structure of the North Atlantic According to Seismic Data	194	245
V. S. Medvedev, Ye. N. Nevesskiy, Yu. A. Pavlidis and F. A. Sheherbakov: Topography and Holocene History of the Southern Coast of the Kola Peninsula	202	257
Yu. G. Kabanova: Primary Production of the Northern Part of the Indian Ocean	214	270
Ye. I. Blinova: Species Composition and Vertical Distribution of Seaweeds in Penzhinskaya Guba (The Sea of Okhotsk)	225	279
A. K. Geyrikh: Seasonal Phenomena in the Plankton of the Northeast Pacific Ocean	231	287
L. A. Pobomareva: Quantitative Distribution of Zooplankton in the Red Sea as Observed in the Period May-June 1966	240	297
B. V. Krylov: Species Association in Plankton	243	301
F. A. Pasternak: Bottom Fauna from Great Depths in the Romanche Gap: A Study on the Research Vessel <u>Akademik Kurchatov</u>	252	312
Methods and Instruments		
E. I. Karabasheva, Yu. Ye. Ochakovskiy and V. A. Rutkovskaya: A Comparison of Different Methods for Measuring and Calculating Radiation in the Sea	255	317
V. A. Voyevodin and L. V. Mironov: Determining the Thickness of Ice Floes by Stereophotogrammetric Analysis of Aerial Photographs	264	327
Yu. I. Iyakhin: A Graphical Method for the Determination of Calcium Carbonate Saturation in Seawater	271	336
V. V. Patrikeyev and G. A. Orlova: A New Method of Marking and Quantitatively Estimating Tracer Sands and Silt in Bottom Samples	276	341
I. K. Rzhapishvskiy, I. A. Kuznetsova and P. A. Vlasov: An Apparatus for Mixing Water in the Laboratory	280	347
Information		
J. Opdyke: A Method for Preparing Short-lived Fluorescence Tracer Sand for Use in Repeated Experiments on the Movement of Drifts	282	350
O. V. Kol'man: New Oceanographic Publications Abroad	284	351
N. F. Medvedev: The USC and GSS Oceanographer	286	353

Available From The American Geophysical Union

IZVESTIYA AKADEMII NAUK SSSR OKEANOLOGIYA
Vol. 8, No. 3, 1968

	Page	
	English	Russian
M.M. Ivanov, V.V. Novykh and D.L. Finger: Results and Objectives of Soviet Investigations of the Geomagnetic Fields in the World Ocean	291	363
A.S. Lezhen and N.A. Panteleyev: Analysis of Incomplete Measurements of Continuous Processes in the Ocean	294	374
G.G. Kuz'minskaya: Determination of the Number of Unusually High Waves for a Fully Developed Sea of Given Irritation	307	384
V.L. Lebedev: Maximum Size of a Wind-Generated Lead during Sea Freezing	313	391
V.A. Khimitsa: The Hydrological Structure of the Waters of the Gulf of Aden	314	397
V.A. Bubnov: Boundaries of Intermediate Water Masses in the North Atlantic	322	403
Ye.V. Sol'yankin and N.A. Timofeyev: On the Depth of Vertical Mixing in the Black Sea in Winter	326	409
B.A. Skopintsev: Some Reduction and Oxidation Processes in the Black Sea	328	412
D.D. Baranova and G.G. Polikarpov: Adsorption and Desorption of Radionuclides by Shallow-Water Sediments of the Black Sea	341	427
A.V. Il'in, K.D. Sabinin and V.A. Shulepov: Some Methods and Results of the Statistical Processing of Bottom Relief Data	344	431
M.G. Yurkevich: The Use of the Sand-Transporting Properties of Waves in Littoral Drift Study	352	442
Yu.P. Khristalev and F.A. Shcherbakov: The Balance of Sedimentary Material in the Sea of Azov	360	432
L.V. Kuz'menko: Primary Production in the Arabian Sea in the Summer Monsoon Period	367	461
D.V. Bogdanov, V.A. Sokolov and N.S. Khromov: Regions of High Biological and Commercial Productivity in the Gulf of Mexico and Caribbean Sea	371	456
V.Ya. Pavlov: Plankton Distribution in the Cap Blanc Region	391	479
Ye.A. Tsikhon-Lukashina, I.N. Solbatova and G.G. Nikolayeva: Food Assimilation by Bottom Crustaceans of the Sea of Azov and Methods for Its Determination	388	457
V.P. Shuntov: Numerical Record of Sea Birds in the Eastern Part of the Indian Ocean	391	494
METHODS AND INSTRUMENTS		
G.V. Matushevskiy and V.Ye. Prival'skiy: The Use of Filters in Time Series in Hydrometeorology	401	502
V.B. Titov: Simple Techniques for Estimating the Spectrum of Tidal and Inertial Currents Oscillations in the Sea	412	514
N.P. Bulgakov and V.N. Novozhilov: Correcting Sound Velocity for Hydrostatic Pressure in the Northwest Pacific	418	521
M.M. Nikitin: Possibility of Improving the Design of BPV Current Recorders and Eckman-Merz Current Meters	425	529
V.P. Nikolayev and A.A. Zhil'tsov: Simple Photoelectric Transparency Meter	428	533
A.B. Isayeva and A.N. Bogoyavlenskii: The Determination of Nitrate in Seawater by Reduction to Nitrite with Amalgamated Cadmium	433	539
V.I. Timoshchuk: An Improved Water Sampling System for Strontium-90 and Other Radioecological Determinations	439	546
DISCUSSION		
N.F. Medvedev: The Question of Creating a General-Purpose Scientific-Research Vessel as a Basic Facility of Modern Oceanology	441	550
INFORMATION		
L.V. Farengol'ts: New American Research Station for the Arctic	452	560
Yu.A. Lupachev: New Measuring Device for Bottom Currents	453	560
O.V. Kol'man: New Television and Hydroacoustical Instruments for Submarine Research	454	561
REVIEWS		
V.L. Tsurikov: An Original Study of the Characteristics of Scientific Vessels	455	562
CHRONICLE		
A.I. Duvantin: Doctor A. T. Doodson	457	564
N.G. Ivanov-Frantskevich: Rekind Arthur Cox	457	564

Available From The American Geophysical Union

IZVESTIYA AKADEMII NAUK SSSR OKEANOLOGIYA
Vol 8, No 4, 1968

	Page	
	English	Russian
A. I. Duvanin: A Model of the Macroscale Air-Sea Interaction Processes	459	571
V. P. Karklin and E. I. Sarukhanyan: The "Pole Tide" in the Northern Atlantic Ocean and Contiguous Seas	465	581
A. S. Denisov: Effect of Ice Concentration on the Sea Surface Temperature	473	592
A. O. Shpa, kher: The Anomalously High Temperature and Salinity of Red Sea Bottom Water	477	597
V. A. Bubnov, O. A. Gushchin and L. M. Krivelevich: On the Formation of the Oxygen Minimum Layer in the Ocean	483	605
N. P. Morozov: Lithium and Rubidium in the Waters of Inland Seas	489	612
V. S. Zlobin, N. G. Sapronetskaya and A. G. Alekseyeva: Phosphate Distribution and Regeneration in the Norwegian Sea in 1965	492	616
V. A. Yegorova: Nitrites in the Waters of the Mediterranean Sea	502	628
Ye. M. Yemel'yanov, N. B. Vlasenko and S. A. Orlova: Some Data on the Distribution of Iron in Marine Suspension from the Southeastern Baltic Littoral	512	638
N. I. Larkina: Computation of 500-M Relief Interval Areas for the Pacific Ocean, and Its Marginal Seas and Basins	518	646
V. D. Rvachev: Some Features of the Geomorphology of the Shelf and Continental Slope of the Newfoundland and Labrador Areas	529	659
L. I. Govberg: Distribution of Mollusca in the Holocene Deposits in the Gulf of Onega	534	666
M. V. Geptner: Structure and Taxonomic Significance of the Genital Complex in Copepods of the Family Euchaetidae (Calanoida)	543	680
S. A. Mileykovskiy: Breeding of the Starfish Asterias Rubens L. in the White, Barents, Norwegian and Other European Seas	553	693
I. P. Kanayeva: Distribution of Mass Copepod Species in the Western Part of the Scotia Sea	562	705
M. L. El'-Sayed: Changes in the Waters of the Danube Region in the Black Sea and the Effect on Anchovy Breeding	569	714
METHODS AND INSTRUMENTS		
N. I. Stepanov: Some Problems in Providing Navigational Observations for Oceanographic Studies	572	718
G. A. Fonarev: The Effect of Ocean Telluric Currents on the Operation of the GEK Current Meter	579	727
Ye. M. Margolinskiy: Refinement of the Harmonic Constants of Tidal Waves Obtained by the Darwin Method	586	735
V. M. Aleksandruk and A. V. Stepanov: Strontium Determination in Ocean Water by the Spectral Method of Isotopic Dilution	596	746
DISCUSSION		
V. V. Longinov and A. A. Aksenov: Lithodynamics of the Sea, Its Slope, Problems and Future Prospects	600	752
INFORMATION		
A. Z. Vaygachev: Where are the Truls Rocks?	606	758
Yu. Yu. Zhitovskiy: Measurement of Bottom Irregularities not Previously Recorded by Echo Sounding	607	759
A. V. Zhdanov, G. G. Kus'minskaya and V. N. Loginov: An Unusual Storm on the Black Sea	608	760
REVIEWS		
V. P. Zenkovich: The Sea Advances. Labor Protection and Social Insurance (Zhurnal VTsSPS, No. 1, 1968) G. Danilov and S. Zhuravlev	613	765
B. N. Mozhayev: Experience in Geological, Geomorphological and Hydrobiological Research in Coastal Waters	615	766
V. P. Zenkovich and Yu. D. Shchuyskiy: The Role of Tectonic Movements in the Formation of Sea Shores	617	768
OBITUARIES		
Vladimir Borisovich Shtokman	620	771
Aleksandr Mikhaylovich Zhdanov	621	772

Available From The American Geophysical Union

IZVESTIYA AKADEMII NAUK SSSR, SERIYA FIZICHESKAYA
Vol 32, No 4, 1968

Page
Orig. Trans.

Transactions of the Seventeenth Annual Conference on Nuclear Spectroscopy
and Nuclear Structure

Concerning excited states in ^4He . Part II. - I.Sh.Vashakidze & V.I.Mamasakhlisov	538	495
Calculation of excited states of nuclei with $A = 18$ using a realistic nucleon-nucleon interaction - I.Sh.Vashakidze	551	507
Description of elastic nucleon-nucleon scattering in the meson model of nuclear forces - V.V.Babikov & V.S.Kiselev	556	511
Spectroscopic factors from (d,p) reactions on enriched nickel and zinc isotopes - K.A.Gridnev, V.A.Komarov, L.V.Krasnov, V.F.Litvin & Yu.A.Nemilov	560	515
Inelastic scattering of protons with excitation of levels of ^{27}Al in the 3-5 MeV energy range - A.E.Antropov, D.L.Gural'nik, P.P.Zarubin, B.N.Orlov, A.V.Plavko & B.I.Saprykin	567	522
Concerning the mechanism of inelastic scattering of low- and medium-energy protons on ^{27}Al and ^{28}Si - A.E.Antropov, K.A.Gridnev, P.P.Zarubin, B.N.Orlov & A.V.Plavko	574	528
Resonances in excitation functions of the $^{27}\text{Al}(p,\alpha)^{24}\text{Mg}$ reaction in the 6.5 MeV proton-energy region - S.S.Vasil'ev, Yu.A.Vorob'ev, T.N.Mikhaleva & D.L.Chuprunov	583	535
Fluctuation analysis of excitation functions for (e,p') and (p, α) reactions on ^{23}Na for proton energies in the 6.5 MeV region - S.S.Vasil'ev, T.N.Mikhaleva & D.L.Chuprunov	587	539
Investigation of the mechanism of the $^{23}\text{Na}(p,\alpha)^{20}\text{Ne}$ reaction for proton energies between 6.2 and 6.7 MeV - S.S.Vasil'ev, T.N.Mikhaleva & D.L.Chuprunov	594	545
On the coupling between dipole and quadrupole oscillations in magic nuclei - F.A.Zhivopistsev, V.M.Moskovkin & N.P.Yudin	599	550
Features of the diffraction scattering of alpha particles on ^{24}Mg and ^{28}Si - V.Yu.Gonchar, K.S.Zheltonog, G.N.Ivanov, V.I.Kanashevich, S.V.Laptev & A.V.Yushkov	604	554
Concerning correlations between the parameters describing elastic scattering of alpha particles and nuclear deformations and quadrupole moments - V.Yu.Gonchar & A.V.Yushkov	608	558
Elastic scattering of protons on calcium - V.S.Prokopenko & N.N.Pucherov	611	561
Investigation of elastic scattering of 13.6 MeV deuterons on medium-mass and heavy nuclei - I.N.Korostova, L.S.Sokolov, V.V.Tokarevskii, I.P.Chernov & A.A.Yatis	614	564
Investigation of elastic scattering of 13.6 MeV deuterons on light nuclei - A.N.Vereshchagin, I.N.Korostova, L.S.Sokolov, V.V.Tokarevskii & I.P.Chernov	623	573
Elastic scattering of neutrons on yttrium - V.I.Popov, V.M.Sluchevskaya & V.I.Trykova	629	579
Determination of the M-shell fluorescence coefficients of gold, lead and bismuth - A.A.Konstantinov & T.E.Sazonova	631	581

(Contd)

Available From Columbia Technical Translations

IZVESTIYA AKADEMIY NAUK SSSR, SERIYA FIZICHESKAYA
Vol 32, No 4, 1968

Small-angle elastic scattering of alpha particles on nickel and lead - V.Yu.Gonchar, K.S.Zheltonog, G.N.Ivanov, V.I.Kanashevich, S.V.Laptev & A.V.Yushkov	636	585
The three-body problem of the elastic scattering of a deuteron in an "external field" - V.A.Zhmailo & S.N.Gornatko	640	588
Polarization effects in photoproduction of lepton pairs with the nuclear magnetic dipole moment taken into account - B.K.Kerimov & Kh.A.El Khabiri	645	592
Spectra of neutrons inelastically scattered from ^{232}Th , ^{235}U and ^{238}U - O.A.Sal'nikov, N.I.Fetisov, G.N.Lovchikova, G.V.Kotel'nikova, V.B.Anufrienko & D.V.Devkin	653	600
A model of the quasistationary states of a compound system - V.F. Rybachenko & V.Yu.Mel'tsas	659	606
A magnetic beta spectrometer with NMR field stabilization - E.P.Grigor'ev, Yu.S.Egorov, A.V.Zolotavin & V.O.Sergeev	665	612
Spectra of the gamma radiations from ^{116}Sb and $^{116\text{m}}\text{Sb}$ - V.R. Burmistrov & B.G.Kiselev	673	620
Gamma-ray spectra of the long-lived isomers of ^{118}Sb and ^{120}Sb - B.G.Kiselev, V.R.Burmistrov & V.A.Didorenko	677	623
A high-resolution double-focusing beta spectrometer - V.M.Kartashov, O.V.Stakhov, A.G.Troitskaya & G.A.Shevelev	682	628
Use of the (d,p) reaction on ^3He to analyze the polarization of deuterons - Yu.V.Gofman, N.I.Zaika, A.V.Mokhnach, O.F.Nemets, P.L.Shmarin & A.M.Yasnogorodskii	690	636
Kinetic energy of fragments from thermal neutron fission of ^{241}Am and ^{241}Pu - I.A.Baranov, A.S.Krivokhatskii, Yu.F.Romanov & N.V.Skovorodkin	693	639
Measurement of the barrier depth in silicon detectors by means of a proton spectrometer - I.A.Baranov & N.V.Popov	694	640
Study of the spectral density of the current function of a cyclotron beam - E.A.Galkin, G.A.Kosinov, Yu.A.Kuyun, I.G.Lagutin, O.F.Nemets & V.A.Usik	697	642
Cross sections for fragmentation of light nuclei by 600 MeV protons and energy distributions of the fragments - L.P.Moskaleva, G.A.Fedoseev & B.Ya.Shcherbovskii	703	648
Inelastic neutron scattering by ^{209}Bi with excitation of low-lying levels - Yu.G.Degtyarev & V.N.Protopopov	706	651
A secondary-emission detector of heavy charged particles - V.T.Grachev, B.V.Grigor'ev, G.A.Korolev, D.M.Seliverstov & A.P.Shesternev	708	653
Charge vibration in nuclei - V.A.Krutov	711	657
A centralized system for acquisition and processing of physical information (SOFI) and its use in spectrographic measurements - V.I.Kadashevich, I.A.Kondurov, A.P.Nekhai, A.G.Nikanorov, Ya.M. Otchik & V.I.Yurchenko	713	659

Available From Columbia Technical Translations

KINETICS AND CATALYSIS

A translation of *Kinetika i Kataliz*

Volume 9, Number 3, Part 2

May-June 1968

CONTENTS

	Engl./Russ.
Investigation of the Catalytic Properties of Cobalt Spinel with Respect to Oxidation by Molecular Oxygen—T. V. Andrushkevich, G. K. Boreskov, V. V. Popovskii, V. S. Muzykantov, O. N. Kimkhai, and V. A. Sazanov.....	491 595
Temperature Dependence of Polymerization Rate on Chromium (VI) Oxide Catalyst—V. A. Zakharov, Yu. I. Ermakov, L. P. Ivanov, and V. B. Skomorokhov	499 605
Study of the Oxidative Dehydrogenation Reaction of Isoamylenes by a Differential Chromatographic Method—R. R. Aliev, A. D. Berman, A. K. Zhomov, N. K. Lokteva, S. Z. Roginskii, and M. I. Yanovskii	503 610
Oxidation of Formaldehyde by Atmospheric Oxygen on an Iron-Molybdenum Oxide Catalyst—V. N. Bibin and B. I. Popov	510 618
Study of the Kinetics of Heterogeneous Catalytic Reactions According to the Critical Conditions of Ignition. V. Kinetics of the Synthesis of Alcohols from CO and H ₂ on Fused Iron Catalyst, Containing Structural and Chemical Promoters—Yu. B. Kagan, A. N. Bashkirov, A. K. Bukharkin, S. M. Loktev, A. Ya. Rozovskii, and F. B. Korenevskaya	515 623
Relationship between the Potential Shift of the Catalyst and the Reaction Rate in Liquid Phase Hydrogenation. V. Working Surface of Hydrogenation Catalysts and Its Productivity—V. A. Druz	520 629
The Activity and Stability of Fe-Phthalocyanine Catalysts for Hydrogen Peroxide Decomposition as Functions of Their Mode of Preparation—A. P. Rudenko and N. P. Dobrosel'skaya	525 635
Exoelectronic Emission and Catalytic Activity of Mixed NiO/MgO Catalysts—Kh. I. Minchev and I. V. Krylova	531 643
Activities of Rhenium Catalysts in Conversion of Diethyl Sulfide—E. M. Vakurova, T. S. Sukhareva, and A. V. Mashkina	536 649
Physical Properties and Activities of Ni-ZnO Catalysts. III. The Use of Ferromagnetic Resonance for Studying Ni-ZnO Catalysts—A. A. Slinkin and E. A. Fedorovskaya	541 655
The State of Platinum in Promoted Platinum Catalysts and the Nature of the Activity of Metallic Catalysts in the Dehydrocyclization of Paraffin Hydrocarbons—N. R. Bursian, S. B. Kogan, and Z. A. Davydova.....	546 661
Influence of the Method of Preparation on the Porous Structure and Strength of Catalysts and Carriers. II. Bidispersed Silica Gels—V. A. Dzis'ko, D. V. Tarasova, A. S. Tikhova, R. I. Nazarova, G. P. Vishnyakova, and M. A. Guseva	552 668
BRIEF COMMUNICATIONS	
EPR Study of Atomic Oxygen Reactions in Dilute Carbon Monoxide Flames Containing Added Hydrogen—V. P. Balakhin, V. I. Egorov, P. J. van Tiggelen, V. V. Azatyan, Yu. M. Gershenzon, and V. N. Kondrat'ev.....	559 676

(Contd)

Available From Consultants Bureau

X-Ray Induced Decomposition of Single Crystals of PbN_3 - Yu. A. Zakharov, S. M. Ryabykh, and A. P. Lysykh.....	562	679
Kinetics and Mechanism of the Reaction between Cyanamide and Aniline in Aqueous Solutions - M. G. Ivanov, V. G. Golov, and Yu. I. Mushkin.....	565	681
Reaction of the 'sobutyronitrile Radical with Triethylamine - E. A. Trosman and M. V. Basilevskii.....	568	684
Interaction of Atomic Oxygen Generated in the Gas Phase with Solid Hydrocarbons. III. Reactions of Atomic Oxygen with Solid Alkenes Frozen at 77°K in Propane Matrix - E. E. Kasimovskaya and A. N. Ponomarev.....	571	687
Effect of Surface-Active Cations on the Catalytic Activity and Selectivity of Pt Black - F. M. Toktabaeva, G. D. Zakumbaeva, and D. V. Sokol'skii.....	574	690
Adsorption of Mixtures of Vapors under Dynamic Conditions. I. Adsorption of a Mixture of Heptane and Carbon Tetrachloride Vapors on Large-Pored Silica Gel - V. M. Tyurin.....	577	693
Adsorption of Mixtures of Vapors under Dynamic Conditions. II. Adsorption of a Mixture of Methanol and Hexane Vapors on Large-Pored Silica Gel - V. T. Bykov and V. M. Tyurin.....	580	696
A Spectroscopic Study of Rhodium Hydrogenation Catalysts - V. A. Avilov, Yu. G. Borod'ko, V. B. Panov, M. L. Khidekel', and P. S. Chekrii.....	582	698
Mineralogical Composition of an Industrial Catalyst for Ammonia Synthesis - T. Ya. Malysheva, P. D. Rabina, L. D. Kuznetsov, and V. A. Batyrev.....	584	700
Investigation of the Sintering of Iron Oxides by the Methods of Emanation and Surface Gas Tracing - G. M. Zhabrova, M. D. Shibanova, and C. Iech.....	587	703
Calculation of the Effect of Diffusion in the Catalyst Pores for Arbitrary Kinetics - Yu. S. Snagovskii, I. I. Malkin, and E. P. Prokop'ev.....	591	707
A Lined Autoclave for Studying the Effect of the Reactor Walls on Liquid-Phase Processes at Elevated Pressures - L. K. Kazantseva, V. V. Lipets, and M. S. Furman.....	594	710
A Method of Determining the Activation Energy for Reactions Occurring at Monotonically Varying Temperature - V. S. Livshits.....	596	712
Instrument for Continuous Recording of Magnetic Susceptibility Variations of Catalysts - B. N. Tyutyunnikov, Ts. E. Paper, and N. M. Kotelevskii.....	601	717

The Russian press date (podpisano k pechati) of this issue was 6/17/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

KINETICS AND CATALYSIS

A translation of *Kinetika i Kataliz*

Volume 9, Number 4, Part 1

July-August, 1968

CONTENTS

	Engl./Russ.
Mechanism of Oxidation of Phenol by Molecular Oxygen in the Presence of Iron and Copper Ions—D. I. Metelitsa and E. T. Denisov	605 733
Kinetics of Some Reactions of Aromatic Hydrocarbons with Formaldehyde—G. S. Mironov, M. I. Farberov, V. D. Shein, and V. V. Vetrova	612 742
Kinetics of Sulfoetherification of Cetyl Alcohol by Sulfamic Acid—E. L. Vulakh, G. M. Pakhomova, and S. M. Loktev	619 751
Kinetics of Ethylene Substitution in High-Temperature Chlorination—A. I. Subbotin	626 759
Some Features of the Homogeneous and Emulsion Oxidation of Cumene. I. Homogeneous Oxidation of Cumene—N. I. Solomko, V. F. Tsepalov, and A. I. Yurzhenko	631 766
Formation and Reactions of Free Radicals in Organosilicon Compounds Irradiated with UV Light. III. Aromatic-Amine Sensitized Photodecomposition of Polydimethylsiloxane at 77°K—É. L. Zhuzhgov, L. A. Akhundova, and V. V. Voevodskii	637 773
The Products of the Decomposition of Tertiary Butyl, Cumyl, and Triphenylmethyl Hydroperoxides Catalyzed by Cobalt Abietate—M. H. Shchennikova, É. A. Kuz'mina, A. I. Kalinin, and A. N. Kornilina	641 777
The Kinetics of Homomolecular Isotopic Oxygen Exchange on Samarium Oxide—V. D. Sokolovskii, L. A. Sazonov, G. K. Boreskov, and Z. V. Moskvina	647 784
The Decomposition of Formic Acid on Titanium Dioxide and on Solid Solutions of Titanium Dioxide with WO ₃ and Fe ₂ O ₃ —T. P. Khokhlova, N. P. Keier, I. S. Sazonova, and Yu. M. Shchekochikhin	651 789
The Catalytic Properties of the Oxides of Group IV Transition Elements in the Oxidation of Methanol—G. K. Boreskov, B. I. Popov, V. N. Bibin, and E. S. Kozishnikova	657 796
Study of the Activity and Magnetic Properties of Certain Transition Metal Hydroxide Catalysts for Low-Temperature Conversion of Orthohydrogen to Parahydrogen—R. A. Buyanov, O. P. Krivoruchko, and A. V. Golovin	663 804
Study of the Reaction of a Vanadium Oxide Catalyst with Naphthalene and Its Oxidation Products—V. M. Odrin, G. P. Korneichuk, and L. M. Roev	667 810
The Catalytic Properties of Rare Earth Oxides for the Isotopic Exchange Reaction in Molecular Oxygen—G. V. Antoshin, Kh. M. Minachev, and R. V. Dmitriev	672 816
Carbon Dioxide Formation by Reaction of Carbon with Water Vapor—E. M. Cherednik, M. I. Temkin, and L. O. Apel'baum	678 824
Gas-Phase Oxidation of Dimethylsulfide in the Presence of Solid Catalysts—A. V. Mashkina and V. I. Marshneva	683 831
Modified "Point A Method" of Measuring the Surface Area of Adsorbents—R. E. Mardaleishvili and K. A. Kriger	687 835

The Russian press date (podpisano k pechati) of this issue was 8/28/1968
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

LARUS
Vol 16-18, 1962-1964

Ljubica Stromer:

Bird Banding in 1961 and 1962. 1. Results of the Bird Banding Carried out by the Ornithological Department of the Biology Institute of Zagreb University. 15th Report; 2. Foreign Recoveries Made in Yugoslavia. 9th Report 5

Dragutin Rucner:

The Significance of the Avifauna in Relief Pine Forests of Mala Kapela and its Relationship to Avifaunas in other Tree Associations of this Vegetation Zone 37

Renata Rucner:

The Relationship between the Mediterranean Vegetation and Mediterranean Elements of the Avifauna of the Balkan Peninsula 69

Mladen Krpan:

The Birds of the Island of Vis and of the Neighboring Islets . . . 97

Ljubica Stromer:

Interesting Reactions of Birds when Caught for Banding . . . 137

Gojko Picur:

The Biologico-Economic Significance of Rooks (*Corvus frugilegus* L.) for Agriculture in the Area of Eastern Slavonia . . . 141

Notes:

An Unusual Specimen of the Capercaillie, *Tetrao urogallus*. — A Fall Migration of Bee Eaters, *Merops apiaster*, along the Seashore at Nesebar in Bulgaria. — Great Bustards, *Otis tarda*, in Croatia at the Beginning of the Winter of 1964. — Rose-coloured Starling, *Pastor roseus*, at Zrenjanin. — Waxwing, *Bombycilla garrulus*, in Belgrade in 1963-1964. — Waxwing, *Bombycilla garrulus*, in Croatia in the Winter of 1963-1964. — Late Nesting of some Birds in Belgrade. — Some Ornithological Data of the Neighborhood of Zrenjanin. 251

Available From CFSTI TT 67-58044

LIJEČNICKI VJESNIK
Vol 90, No 4, 1968

<i>A. Gašparov:</i>	
Some Problems in the Diagnosis and Treatment of Gastroduodenal Ulcer	1
<i>M. La Grasta:</i>	
Significance of Diagnostic Pneumothorax and Pneumoperitoneum in the Differential Diagnosis of Thoracic Diseases	14
<i>B. Ivaničević and V. Hartl-Prpić:</i>	
Chronic Form of Regional Ileitis — Morbus Crohn	22
<i>L. Kallai, D. Kocić and T. Mikloušić:</i>	
Clinical and Laboratory Diagnosis and Therapy of Infectious Hepatitis	27
<i>N. Mihajlović:</i>	
Contrast Media in Urological Roentgen Diagnostic	38
<i>V. Mayer, J. Lešničar, M. Gerbec and M. Jung:</i>	
Preliminary Experience in Attempted Direct Isolation of Viruses at a Hospital Department	43
<i>N. Hadžić:</i>	
Peptic Ulcer — Still a Diagnostic and Therapeutic Problem	53
<i>Z. Ašperger:</i>	
Health in the World of Tomorrow	57

Available From CFSTI TT 68-50051/4

LJECNICKI VJESNIK
Vol 90, No 5, 1968

Page

<i>R. Bucina, B. Tiefenbach and G. Luković:</i>	
Nutrition and Anemia during Pregnancy in the Area of Zagreb . . .	1
<i>R. Micalini:</i>	
Amyloidosis and Hodgkin's Disease	7
<i>M. Stulhofer, B. Gijvan and Z. Brala:</i>	
Results of Surgical Treatment of Pancreatoduodenal Carcinoma . . .	25
<i>R. Uchytel:</i>	
The Clinical Significance of Adrenergic Receptors	30
<i>J. Zadjelović:</i>	
Colposcopic and Cytologic Pattern in Two Cases of Primary Syphilitic Affection of the Uterine Cervix	39
<i>R. Zivković and B. Oberman:</i>	
Tumor of the Left Atrium	44
<i>P. Drobnyak:</i>	
Metrorrhagia Functionalis Seu Dysfunctionalis	51
<i>R. Novak:</i>	
Surgical Treatment of Traumatic Strictures of the Posterior Urethra	59
<i>H. Maver:</i>	
Nutrition Survey	69
<i>I. Ruszkowski and V. Nikolić:</i>	
Recurrent Shoulder Dislocation	73

Available From CFSTI TT 68-50051/5

LIJEČNICKI VJESNIK
Vol 90, No 6, 1968

	Page
<i>R. Medved:</i> Latest Views on the Athletic Heart	1
<i>M. Mimica and V. Goldner:</i> An Examination of the Effect of MgSO ₄ in Peripheral Arterial Diseases. A Double Blind Trial	13
<i>E. Bobinac:</i> Viral Hepatitis and Hepatic Coma	17
<i>D. Machiedo, P. Tivanovac and P. Keros:</i> The Treatment of the Fractured Scaphoid Bone	25
<i>B. Metz:</i> Pathological Hip Dislocation in Infants Due to Septic Coxitis	41
<i>A. Sabolić:</i> Infarction Cavern	49
<i>P. Kolmanić:</i> Schortcomings of Side-to-Side Intestinal Anastomosis with Particular Reference to the Blind Loop Syndrome	59
<i>P. Radielović:</i> News in the Medicamentous Therapy of Tuberculosis	62
<i>V. Petrokov:</i> Fractures of the Scaphoid Bone	66
<i>F. Custović and Đ. Bujanj:</i> Buerger's Disease or Presenile Atherosclerosis (Thromboangiitis obliterans)	69

Available From CFSTI TT 68-50051/6

MEDYCYNĄ DOŚWIADCZALNĄ I MIKROBIOLOGIA
Vol 20, No 2, 1968

J. Hawiger: Staphylococcal Lysozyme. III. Factors that Influence the Course of Reaction of Staphylococcal Lysozyme	107
J. Hawiger: Staphylococcal Lysozyme. IV. The Lysozyme Activity Against Various Substrates	118
M. Siwecka, J., J. Jeljaszewicz: Purification and Some Properties of Staphylococcal Coagulase	125
M. Macierewicz, S. Katiżewski, J. Laiko: Phage Differentiation of Strains of <i>Salmonella enteritidis</i>	138
S. Katiżewski: Some Partial Antigens of Unencapsulated Variants of <i>Klebsiella</i> Group O2, II. The Characteristic of O Antigen Preparations by Passive Hemagglutination	147
B. Kopacka: Immunological and Immunochemical Studies on <i>Salmonella</i> Antigens with Special Reference to O and VI Antigens of <i>Salmonella typhi</i>	159
D. Rymkiewicz: Studies on Type F <i>Clostridium botulinum</i> . I. Properties of the Selected Cultures of Langeland Strain	173
K. Obojska, J. Zawadzka-Gralewicz: A Combined Effect of Colistin with Neomycin, Penicillins, and Erythromycin on <i>Corynebacterium diphtheriae</i>	180
E. Sikorska: Concentration and Purification of Mycophage D 29	188
L. Jabłoński: Studies on ECHO 9 Virus. III. Genetic Stability of Serological Features of "Hot" Mutant	197
M. Kańtoch, H. Dobrowolska: Studies on the Reactivity of Macrophages to Enterovirus Infections. I. Effect of Phytohemagglutinin on Macrophage Cultures	201
H. Dobrowolska, M. Kańtoch: Studies on the Reactivity of Macrophages to Enterovirus Infections. II. Reaction of Macrophage Culture to the Introduction of Virus	207
M. Kańtoch, H. Dobrowolska: Studies on the Reactivity of Macrophages to Enterovirus Infections. III. Reproduction of Wild, Attenuated, and Intermediate Strains of Poliomyelitis Virus in Macrophage Cultures	213
Z. Gancarz: Immunobiological Methods in the Diagnosis of Human and Animal Trichinosis	219

Available From CFSTI TT 68-50004/2

MEDYCYNA DOŚWIADCZALNA I MIKROBIOLOGIA

Vol 20, No 3, 1968

Z. Tynecka: Free Amino Acids of Staphylococci	227
J. Mikucki et al.: Asparaginase Activity of Antibiotic-Resistant Strains of Staphylococcus aureus	233
B. Augustyniak, A. Ganczarski: Applicability of Various Media for the Isolation and Identification of Staphylococcus aureus	238
S. Kaluzewski: Some Partial Antigens of Unencapsulated Variants of Group O2 Klebsiella. III. The Characteristic of O Antigen Preparations by Agar Gel Precipitation and Immunoelectrophoresis	247
E. Malafiej, K. Lipecka: Catalase Activity of Salmonella typhi Strains and Their Ability to Produce Vi Antigen	261
S. Brandes: Heterogenous Antigens of the Bacteria of Shigella flexneri Subgroup	265
F. Rabczyńska, Z. Sporyńska: Application of Passive Hemagglutination for Determining Diphtheria and Tetanus Antibodies. I. Correlation of Antibody Titers Determined by Biological Methods and by Hemagglutination	276
D. Rymkiewicz: Studies on Clostridium botulinum Type F. II. Isolation and Properties of Highly Active Toxin	288
C. Frygin, Z. Lewińska: Indirect Immunofluorescence Test as Applied for Serological Diagnosis of Typhus Fever	295
F. Z. Taytsch: Comparative Studies on Biological Properties of Strains of Coxsackie Virus Type B1 and B3	304
L. Jabłoński et al.: Studies on ECHO 9 Virus. IV. Genetic Markers S, d, MS and E of "Hot" and "Cold" Mutants	311
B. Mazur: Studies on Reactivation in Poxvirus Group. I. Reactivation of Vaccinia Virus	315
S. Woyciechowska: Titration of Rhinopneumonitis Equorum Virus in Cell Cultures in vitro with the Use of Indicator Virus	321

Available From CFSTI TT 68-50004/3

	Page	
	English	Russian
A. I. Davanin: A Model of the Macroscale Air-Sea Interaction Processes	459	571
V. P. Karklin and E. I. Sarukhanyan: The "Pole Tide" in the Northern Atlantic Ocean and Contiguous Seas	465	581
A. S. Denisov: Effect of Ice Concentration on the Sea Surface Temperature	473	592
A. O. Shpaykher: The Anomalously High Temperature and Salinity of Red Sea Bottom Water	477	597
V. A. Bubnov, O. A. Gushehin and L. M. Krivelevich: On the Formation of the Oxygen Minimum Layer in the Ocean	483	605
N. F. Morozov: Lithium and Rubidium in the Waters of Inland Seas	489	612
V. S. Zlobin, N. G. Sapronetskaya and A. G. Alekseyeva: Phosphate Distribution and Regeneration in the Norwegian Sea in 1965	492	616
V. A. Yegorova: Nitrites in the Waters of the Mediterranean Sea	502	628
Ye. M. Yemel'yanov, N. B. Vlasenko and S. A. Orlova: Some Data on the Distribution of Iron in Marine Suspension from the Southeastern Baltic Littoral	512	637
N. I. Larkina: Computation of 500-M Relief Interval Areas for the Pacific Ocean, and Its Marginal Seas and Basins	515	646
V. D. Ryachev: Some Features of the Geomorphology of the Shelf and Continental Slope of the Newfoundland and Labrador Areas	529	659
L. I. Govberg: Distribution of Mollusca in the Holocene Deposits in the Gulf of Onega	534	666
M. V. Geptner: Structure and Taxonomic Significance of the Genital Complex in Copepods of the Family Euchaetidae (Calanoida)	543	680
S. A. Mileykovskiy: Breeding of the Starfish <i>Asterias Rubens</i> L. in the White, Barents, Norwegian and Other European Seas	553	693
I. P. Kanaveva: Distribution of Mass Copepod Species in the Western Part of the Scotia Sea	562	705
M. L. El'-Sayed: Changes in the Waters of the Danube Region in the Black Sea and the Effect on Anchovy Breeding	569	714
METHODS AND INSTRUMENTS		
N. I. Stepanov: Some Problems in Providing Navigational Observations for Oceanographic Studies	572	718
G. A. Fonarev: The Effect of Ocean Telluric Currents on the Operation of the GEK Current Meter	579	727
Ye. M. Margelinskiy: Refinement of the Harmonic Constants of Tidal Waves Obtained by the Darwin Method	586	735
V. M. Aleksandruk and A. V. Stepanov: Strontium Determination in Ocean Water by the Spectral Method of Isotopic Dilution	596	746
DISCUSSION		
V. V. Longinov and A. A. Akserov: Lithodynamics of the Sea, Its Scope, Problems and Future Prospects	600	752
INFORMATION		
A. Z. Vaygachev: Where are the Truls Rocks?	606	758
Yu. Yu. Zhitovskiy: Measurement of Bottom Irregularities not Previously Recorded by Echo Sounding	607	759
A. V. Zhdanov, G. G. Kus'minskaya and V. N. Loginov: An Unusual Storm on the Black Sea	608	760
REVIEWS		
V. P. Zenkovich: The Sea Advances. Labor Protection and Social Insurance (Zhurnal VTsSPS, No. 1, 1965; G. Danilov and S. Zhuravlev	613	765
B. N. Mozhayev: Experience in Geological, Geomorphological and Hydrobiological Research in Coastal Waters	615	766
V. P. Zenkovich and Yu. D. Shchuykiy: The Role of Tectonic Movements in the Formation of Sea Shores	617	768
OBITUARIES		
Vladimir Borisovich Shtokman	620	771
Aleksandr Mikhaylovich Zhdanov	621	772

Available From The American Geophysical Union

ОПТИКА И СПЕКТРОСКОПИЯ
Vol 25, No 4, Oct, 1968

(Numbers in parentheses are original Russian page numbers.
These Russian page numbers are also quoted at the head of each paper.)

Isotopic Structure of the 1.5295 Millimicron Laser Line of Mercury	V. P. Chebotayev	267	(471)
The Absorption of a Xenon Plasma in the Continuum Region	S. I. Andreyev and O. G. Baikov	269	(481)
Cross Sections for the Excitation of the K Series of Argon by Electron Collision	G. G. Dolgov-Savelev and V. E. Paschenko	276	(488)
Effect of Plasma Inhomogeneity on Atom Temperature Measurements in a Gas Discharge	E. N. Pavlovskaya and I. V. Podmoshenskii	273	(485)
Calculation of the Photoionization Cross Sections of Molecular Systems. II. Ethylene, Butadiene, and Benzene	I. G. Kaplan and A. P. Markin	275	(488)
Effect of Hydrogen Bonding on the Vibrations of the NH ₂ Group. I. Frequencies of Valence Vibrations	E. L. Zhukova and I. I. Shmanko	279	(500)
Determination of the Absorption Band Intensities of Anthracene in an Absorbing Solvent on the Basis of Dispersion Measurements	V. M. Korovina and L. I. Alperovich	282	(506)
Phosphorescence and Fluorescence of Two-Component and Multicomponent Solutions of Biphenyl Derivatives	A. V. Aristov and E. N. Viktorova	283	(508)
Transfer of Electronic Excitation Energy in Rigid Solutions of Organic Lumors	Ya. A. Terskoi, V. G. Brudz, and O. N. Korolkova	287	(516)
Concentration Effect on the Decay Time of the Naphthalene and Phenanthrene Phosphorescence	T. N. Bolotnikova, T. M. Naumova, F. M. Gur'ev and V. G. Kazachkov	291	(523)
Temperature Dependence of Luminescence Spectra of Silver Bromide Crystals	E. B. Kozyreva	293	(526)
Study of the Population Kinetics of the Metastable ² E State of Ruby and the Losses in a Q-Switched Laser Resonator	K. Razumova and G. M. Rubanova	295	(530)
On the Possibility of Optical Pumping of Gases by Their Own Radiation	P. A. Bokhan and G. I. Talankina	298	(536)
On the Mechanism of Laser Action in Na-H ₂ Mixture	P. A. Pogorelyi and A. S. Tibilov	301	(542)
Effect of Collisions on Certain Characteristics of the He-Ne Laser	S. A. Gonchukov, G. A. Mikhendo, and E. D. Protsenko	305	(550)
Optical Resonator with a Thin Absorbing Film as a Mode Selector	Yu. V. Troitskii	309	(557)
Attenuation of Light by Absorbing Particles with a Small Real Part of the Refractive Index	A. N. Latyshev, A. S. Sivkov, and N. V. Teselkina	313	(565)
Passage of Light through Cylindrical Light Pipes by Total Internal Reflection	L. E. Paragamanik, T. I. Sokolovskaya, and Yu. I. Tsirlin	315	(568)
Polarization Properties of Multilayer Dielectric Mirrors	B. V. Rybakov, S. S. Skulachenko, R. F. Chumichev, and I. I. Yudin	317	(572)
A Method for Automatic Correction of Aberrations in Composite Optical Systems	D. S. Volosov and N. V. Tseno	319	(575)

Available From The Optical Society of America

OPTIKA I SPEKTROSKOPIYA
Vol 25, No 4, Oct, 1968

SHORT COMMUNICATIONS

Absorption Spectrum of Tetravalent Chromium in Glasses	S. P. Lunkin, D. G. Galimov, and D. M. Yudin	322	(583)
Phosphorescence Emission and Gudden-Pohl Effect Spectra of Sulfoselenides $Zn(S_{100-x}Se_x)-Cu_2I$	A. G. Goldman, B. N. Koroiko and S. F. Lysenko	324	(584)
Electroluminescence Spectra of $ZnSe-Cu_2I$ and Temperature Dependence of the Luminescence	B. N. Koroiko and S. F. Lysenko	325	(585)
New Method for the Determination of the Spectroscopic Characteristics of Molecules in a Condensed Medium	V. S. Litov	326	(586)
Luminescence of Zinc and Magnesium Orthovanadates Imbedded in Certain Oxides and Salts	S. L. Berdnikov and Ya. M. Zelkin	329	(591)
Neodymium Glass Laser with Plane-Polarized Emission	V. V. Dedushkevich, Yu. P. Ivanov, D. I. Perlov, and V. S. Savochenko	331	(594)
Primary Electro-Optical Effect in Trenchloride Crystals	A. S. Vasilevskaya, V. P. Popova, I. S. Rezand, and A. S. Sonin	332	(596)
Calculation of Hartree-Fock Atomic Wave Functions and Energies in Terms of Perturbation Theory	A. I. Greiser	333	(598)
Some Features of the Build-Up Process of X-Ray Luminescence in Alkali-Halide Crystal Phosphors	R. M. Muminov and F. N. Zaitov	335	(600)
Dynamical Theory of Energy Migration in a Two-Dimensional Liquid	I. A. Nagibarova and V. I. Rizaev	336	(602)
Instrumental Contour Distortion in Faraday Rotation Spectroscopy	V. K. Micleslavskii, V. V. Karmazin, and S. P. Gavrilov	336	(605)
Cumulative Luminescence in $CaF-Gd^{3+}$, Yb^{3+}	D. D. Livanova, I. G. Saikulov and A. L. Stolov	340	(608)
Energy of Splitting of the Singlet and Triplet Terms of the M Center	A. A. Berezin	341	(610)
Determination of Some Helium Spectral Line Absorption Coefficients from Fabry-Perot Line Profiles	A. P. Makarov	342	(611)
Some Optical and Electrical Properties of Thin Films of Cu_3PSe , Cu_3PSeS_x and Cu_3PSeI_x	B. P. Kryzhanovskii	343	(613)
The Decay of the Metastable 2^1S State of Helium in a Discharge	Yu. Z. Ionikh and S. E. Frish	345	(615)
Characteristics of the Optical Transmission of Phototropic Shutters and Their Effect on Laser Parameters	L. S. Dovger, B. A. Ermakov, and A. V. Lukin	346	(617)
Influence of the Nature of a Para-Substituent on the Frequency of the First Electronic Transition in the Stilbene Molecule	T. N. Bolotnikova, L. Ya. Malkes, A. I. Nazarenko and V. N. Yakovenko	348	(621)
The Determination of Force Constants by a Matching Method	Yu. N. Panchenko, G. S. Koptev, N. F. Stepanov and V. M. Tatevskii	350	(623)

BOOK REVIEWS

Coherence in Optics, by M. Francon and S. Slansky	N. I. Kalitevskii	352	(627)
Two New Books on Lasers: Optical Masers, by G. Birnbaum; Solid State Lasers, by M. L. Ter-Mikhaelian and Yu. G. Turkov	Yu. T. Mazurenko	353	(627)

Available From The Optical Society of America

POLSKIE ARCHIWUM MEDYCYNY WEWNĘTRZNEJ
Vol 39, No 5(LI), 1967

	Page
K. Jasicki, A. Adamski, C. Smarsz: Plasma calcium fractions in diabetes mellitus	1033
I. Wolański, M. Grzywa: Effect of a single high-fat meal on the level of blood lipids in aged subjects	1041
S. Sterkowicz: The use of the β -adrenergic blockade for a differential diagnosis of non-specific changes of the T wave in the ECG	1047
J. Hanke: Changes in the activity of blood serum enzymes in acute intoxication with hypnotic and sedative drugs	1054
J. Zurba, Z. Szczepański: Detection of protein-losing enteropathy occurring in celiac disease, by means of immunochemical methods	1061
S. Kędrowa, B. Szyska: Neuraminic acid in viral hepatitis	1067
J. Daszyński, S. Maj: Effect of low temperature on red blood cells	1073
W. Tymiański, E. Czapłowska: Studies on the homeostatic mechanisms in blood during shock. Comparison of certain parameters of blood clotting and fibrinolysis of circulating and stagnant blood	1080
S. Kwiatkowski, Z. Ojzyński, R. Smulik, N. Tawlas: Serum lactic acid dehydrogenase activity in polycythemia and osteomyelosclerosis	1086
B. Semczuk: Studies on the influence of acoustic stimuli on respiratory movements	1090
O. Westrych, J. Paulo: Value of mass miniature radiography for early diagnosis of lung cancer	1097
H. Barysz: Cytology of the sputum in bronchial carcinoma	1105
T. Rzepecki, J. Tyślerowicz, I. Cyperląg: Surgical treatment of pulmonary aspergillosis	1108
A. Klein: Malignant melanoma of the anus. Report of ten cases	1113
J. Miklaszewska, K. Orzechowska: Biopsy of the bone marrow as a contribution to early diagnosis of malignant neoplasms	1117
W. Szreder: Effect of artificially induced abacterial erysipelas and of chronic aseptic abscess on human and experimental neoplasms	1122
A. Dobrzańska, E. Gajewska: Studies on sex-dimorphism of peripheral blood neutrophils in the Langdon-Down syndrome	1130
T. Lewenfisz-Wojnarowska, M. Sienawska, B. Tenerbaum, M. Wróblewska-Kalutewska: Investigations on immunoglobulins in children with enlarged thymus	1137
S. Luft: Immunological investigations on experimental adjuvant induced polyarthritis in rats	1141
J. Sroczyński, G. Janderka, A. Wegiel: Effect of lead poisoning on the synthesis of ribonucleic acids in some rat organs	1148
M. Borkid, W. Bartoszewicz: The effect of cobalt on the ultrastructure of mitochondria	1154
B. Wszolek, C. Majewski, E. Kukiel: Studies on the occurrence of neutrons in the liver of rat with implanted Guerin epithelioma	1162
B. Wszolek, E. Kukiel, C. Majewski: Nuclear reactions produced by neutrons of the liver of rat after oral beryllium administration	1166
C. Majewski, B. Wszolek, E. Kukiel: Recoil protons in liver and kidneys	1173
W. Jasicki, J. Malinowska, T. Pilipowska, H. Mackiewicz, S. Sierpiński: Technetium 99 m γ encephalography	1178
B. Kolber-Postępska, S. Kołodziejczyk, Z. Stelmusiak: Activity of creatine kinase, amino-transferases and aldolase in cerebral strokes	1186
B. Maczyska-Rusiniak, J. Tessarowicz: Studies on post-transfusion isoimmunisation in patients with complete transection of the spinal cord	1193
J. Zajner, M. Ulatowski, R. Stachlewski: Radiological characteristics of brain tumors infiltrating corpus callosum	1196
S. Stefanko, S. Zebrowski: Histological changes in the nerve roots and spinal cord after intrathecal administration of phenol for relief of spasticity	1204

(Contd)

Available From CFSTI TT 68-50006/5
Vol 7, No 5, 1968

POLSKIE ARCHIWUM MEDYCYNY WEWNĘTRZNEJ
Vol 39, No 5 (II), 1967

B. Bohurska, K. Jezierska, J. Prot, J. Rafalowska: A case of neuromaxonal dystrophy of Seitelberger recognized intravitaly	1209
J. Rafalowska, B. Wasowicz: Syringomyelia simulating amyotrophic lateral sclerosis	1214
B. Straińska-Kusiowa: Radiological changes in the long bones in progressive muscular dystrophy	1219
L. Depczynski: Lipids and enzymatic lipolysis in serum of patients with schizophrenia	1228
K. Jus, A. Kiljan, A. Kubacki, J. Rzepecki, H. Wilczak, A. Jus: Studies on the effect of psychological factors on the "expectancy wave"	1235
J. Jaroszyński, M. Janiszewska, W. Ejsmont: Attempted analysis of factors influencing the quality of remissions in schizophrenia	1242
J. Gramska: Organic aspect in the etiology of motor neuroses in children	1247
W. Demidziuk, A. Majczak: Attempt at objectivity in examining the vestibular system	1256
K. Pecoldowa: Experimental and clinical investigations of drugs limiting the rise of intraocular tension caused by succinylcholine. III. Clinical studies on the effect of chlorpromazine, glycerol and acetazolamide	1261
J. Wójcicka, J. Kretowicz, J. Arsoba: Alkaline phosphatase activity in dialysed urine samples from patients with normal pregnancy, toxemia of pregnancy and chronic pyelonephritis	1267
T. Czernik: The presence and role of basic proteins in human placenta	1274
A. Bromboszcz: Proteins of the amniotic fluid in the light of studies on γ -globulins	1286

Available From CFSTI TT 68-50006/5
Vol 7, No 5, 1968

POLSKIE ARCHIWUM MEDYCyny WEWNĘTRZNEJ
Vol 23, No 13, 1968

	Page
<i>E. Szczekliki, S. Łukasik, B. Halawa, M. Rog-Malinowski, W. Łukaskowa:</i> Urinary excretion of catecholamines in patients with arterial hypertension after radon inhalations from Świeradów-springs	1293
<i>M. Sznajderman:</i> Urinary excretion of neutral 17-ketosteroids and their fractions in men with coronary heart disease	1298
<i>T. Jerzykowski, W. Matuszewski, S. Nowak, N. Otrzonek, R. Winter:</i> Synthesis and decomposition of aminoacetone in sera of healthy subjects and of patients with various internal diseases	1306
<i>M. Miklaszewska:</i> Comparative studies of free amino acids of eccrine sweat and plasma	1313
<i>F. Kokot, J. Kuska, Z. Czekala, I. Kiecań:</i> Studies of plasma renin activity in patients with hypertension	1319
<i>I. Walewska, L. Braggel:</i> Investigations on the specificity of anti-platelet isoantibodies	1328
<i>B. Blicharczyk-Sypek, K. Frankowska:</i> The occurrence of weak D antigens (D ^w) of the Rh system in blood donors	1335
<i>S. Kędrowa:</i> Serum creatine phosphokinase activity in patients with trichinosis	1338
<i>L. Stasiakowa:</i> Sodium excretion in obese adolescents	1344
<i>M. Buczkowski, T. Słomińska-Petelenz, D. Perliński:</i> Serum zinc level in patients with primary diabetes	1357
<i>B. Raszeja-Wanic, K. Jasiński, H. Szereszewska:</i> Investigations on pathogenesis of hyperchloremic acidosis in chronic renal diseases	1363
<i>H. Szereszewska, K. Jasiński, B. Raszeja-Wanic:</i> Hyperchloremia in nephrotic syndromes	1371
<i>W. Mejbaum-Katzenellenbogen, Ch. Maskos, J. Skrzypczyk, Z. Kudrewicz-Hubicka:</i> Sialic acid and hexoses bound with serum proteins	1379
<i>W. Mejbaum-Katzenellenbogen, Z. Kudrewicz-Hubicka, B. Kowal-Gierczak, M. Małicka:</i> Sialic acid of glycoproteins and of seromucoid in allergic bronchial asthma	1385
<i>T. Rafiński, H. Chobot-Maciejewska, J. Gumkowska:</i> Some biochemical indices in the evaluation of physical methods used for treatment of bronchial asthma in children	1391
<i>I. Modzelewska:</i> Immuno-electrophoretic studies on the meconium and feces of premature babies and newborn infants in the first month of life	1397
<i>A. A. Chilman, J. Lewandowska:</i> Radionephrometry in children with pyelonephritis	1403
<i>W. Nasilowski, W. Ziłkiewicz:</i> Evaluation of a thousand cases of burns. Circumstances of the accidents and preventive measures	1410
<i>W. Rudowski, J. Daszyński, E. Kostrzewska, R. Scharf, Z. Klawe, J. Schier:</i> Experimental studies on transfusion of blood stored at low temperature. I. Transfusion of blood stored at low temperature to healthy dogs	1415
<i>A. Karbowski, P. Skalba:</i> Some renal histochemical lesions in rats chronically poisoned with carbon tetrachloride	1421
<i>A. Georgijew, M. Kalczak, J. Węgiel:</i> Some observations on the effect of CCl ₄ on normal and regenerating liver	1430
<i>B. Wszolek, E. Kukiel, Cz. Majewski:</i> Nuclear processes with N and C nuclei of emulsion induced by deuterons present in human renal clear-cell carcinoma	1438
<i>B. Wszolek, E. Kukiel, Cz. Majewski:</i> Disintegration of nitrogen nuclei in an emulsion by deuterons derived from the hepatic and neoplastic tissue of the Guerin epithelioma-bearing rat	1442
<i>R. Zyss:</i> Morphological counterparts of functional disturbances of pancreatic islets in aged people and in diabetics. Attempt at correlation.	1448

(Contd.)

Available From CFSTI TT 68-50006/6
Vol 7, No 6, 1968

	Page
<i>H. Szulc, Cz. Majewski</i> : Blood serum acid mucopolysaccharides in experimental chronic peritonitis	1457
<i>H. Szulc, Cz. Majewski</i> : The intensity of reactions for acid mucopolysaccharides in the small and large intestine in the course of experimental chronic peritonitis in rat	1468
<i>J. Zmudzinski, F. Kumasza, L. Giec</i> : Further investigations on application of "Na for the evaluation of blood supply to the lower extremities in arteriosclerosis obliterans	1475
<i>K. Czyzewski, M. Chrzanowska, Z. Jaworski, M. Lawinski, K. Skora, Z. Szydlowski</i> : Surgical treatment of hemiplegia caused by occlusion of carotids	1481
<i>M. Jarema, F. Fabian, C. Fryze, K. Niezabitowski</i> : Failure of contrast-filling of anterior cerebral artery	1487
<i>T. Dobrzanski</i> : Internal diseases in psychiatric patients in the light of 2,130 postmortem examinations	1492
<i>H. Sulstrowska</i> : One hundred and twenty cases of schizophrenia observed during puberty	1511
<i>J. A. Szadurski</i> : The crystallization of the lipid mantle of the skin in aqueous solutions of ethoxy-diaminoacridine lactate	1517
<i>H. Materlik, T. Slowska, A. Jędrzejczak</i> : Skin changes in acromegaly	1522
<i>M. Feliks</i> : Permeability of the walls of umbilical cord vessels. Part I. Determination of the permeability of cord arteries and veins to water, glucose, trypan blue, chloride, sodium and potassium	1528
<i>M. Feliks</i> : Permeability of the walls of umbilical cord vessels. Part II. Estimation of factors, influencing the speed of the permeation of water, glucose, trypan blue, chloride, sodium and potassium through the cord vessel walls to the medium	1537

Available From CFSTI TT 68-50006/6

Vol 7, No 6, 1968

POLSKI PRZEGLĄD RADIOLOGII I MEDYCYNY NUKLEARNEJ
Vol 32, No 2, 1968

R. Marciniak: An analysis of radiologic diagnosis	133
W. Zarembowski: An assessment of the concordance of photofluorographic diagnoses compared with conventional films	140
Z. Bem, K. Morań: The circumscribed form of fibrous dysplasia of cranial bones	147
A. Chilman, J. Wrzask, M. J. Sobczak: Dysostosis mandibulofacialis	151
K. Jędrabowska, I. Kozicka-Polak: Osteoarticular changes in sarcoidosis	156
A. Kiepuska, M. Borejko: Histiocytosis X of the vertebral column	163
S. Misterka, T. Mielecki, A. Bugajski: A case of synovial chondromatosis	174
W. Kowalski: Dejectus fibrosus corticis	178
A. Zochowski, S. Bryc: A simplified method of catheterization of the iliac arteries in angiography of the lower extremities	183
J. Dobrowolski, R. Glowacka: The extrabronchial form of bronchial adenoma	187
M. Zakrzewski: Laryngoceles — radiologic examination	192
J. Wójtowicz: Vascular changes in chronic pyelonephritis	198
L. Pawlicka: The superior vena cava syndrome	215
W. Kowalski: Calcified posttraumatic pseudoaneurysm of the femoral artery (Case report)	222
J. Szmarło: Radiologic examination of the afferent coil in postresection syndrome	225
T. Kocou: Roentgen anatomy of the ductus hepatocholedochus. I. Course dimensions of the ductus hepatocholedochus in roentgenograms	237
T. Kocou: Roentgen anatomy of the ductus hepatocholedochus. II. Relation of the shadow of the ductus hepatocholedochus to the shadow of the vertebral column in roentgenograms	246
W. Szymczyk, J. Siude, Z. Drejak, J. Kujawska: A method for determining dosage in rotation roentgenography of carcinoma of the esophagus	256
T. Zieliński, A. Domaradzka-Woźniak, M. Kuśmierczuk, J. Sułocka: Results of treatment of carcinoma of the cervix uteri in the years 1954—1961	263
H. Rynkiewicz, A. Domaradzka-Woźniak: The role of the hemolytic factor in anemia in patients with tumors of the lymphoreticular system	267

Available From CFSTI TT 68-50001/2

POLSKI PRZEGLĄD RADIOLOGII I MEDYCYNY NUKLEARNEJ
Vol 32, No 3, 1968

	Page
J. Wojtowicz: The radiologist and research	273
M. Borejko: The value of radiologic examination in chronic rheumatoid arthritis	277
J. Szmurlo, B. Chmielewska: A bifocal form of chondroma of the ribs	287
J. Skańska-Vorbrodt: Lymphadenography of the cervical lymph nodes in patients with carcinoma of the larynx	290
K. Łotkowski, Z. Czekala, S. Przywara: Post-exertion thrombosis of the axillary and subclavian veins	295
Z. Bcm, T. Wawrykowicz: A case of laryngocele	300
M. Zakrzewski, I. Pomerna, K. Lech: Posttraumatic atelectasis	303
B. Romanowski, E. Kubica, K. Adamkiewicz: Deformities of abdominal arteries in renal hypertension	312
B. Benendo-Kapuścinska: Gastrocolic fistula as a complication after operations on the stomach	319
W. Kowalski: Retention of barium suspension in the form of a circular shadow as a direct ulcer sign	323
K. Pietron, H. Naumik: A case of extensive intestinal aganglionosis with diverticulosis of the colon	327
J. Kolbe, M. Wolski: Meckel's diverticulum	332
J. Zysk, B. Kotarbińska-Stefanowska, Z. Kaliciński: Enuresis and obstipation as symptoms of internal hernia of the intersigmoid recess	337
L. Dec, A. Huvar: The renogram after physical exertion	353
H. Kowalczyńska, H. Tomaszewicz-Kubasik: The use of technetium 99m in isotope diagnosis	358
J. M. Wojciechowski: Radioactive osteotropic indicators	368
Book reviews	374

Available From CFSTI TT 68-50001/3

INSTRUMENTS and EXPERIMENTAL TECHNIQUES

A translation of *Pribory i Tekhnika Eksperimenta*

Number 4

July-August, 1968

CONTENTS

Engl./Russ.

Experimental Methods of Acoustic Nuclear Magnetic Resonance (Review)—A. M. Sazonov and S. B. Grigor'ev	765	5
NUCLEAR EXPERIMENTAL TECHNIQUES		
Combination Resonances Caused by the Transverse Components of the High-Frequency Accelerating Field in Ring Accelerators and Storage Systems—A. V. Barkhudaryan and Yu. F. Orlov	776	17
Calculation of Electron Losses in Storage Systems Owing to Interaction with the Radiation of a Colliding Beam—A. V. Barkhudaryan and P. R. Zenkevich	780	20
Shaping Small-Phase-Length Electron Clusters in an Injection Accelerator—E. K. Ostrovskii, A. I. Zykov, G. D. Kramskoi, and V. A. Vishnyakov	782	22
Current Switching in Tesla Transformers—A. A. Egorov, V. S. Panasyuk, and S. M. Shirkin ..	786	26
Optimizing Measurements of the Synchrotron Bremsstrahlung Total Energy—V. V. Yakushin ..	790	30
Apparatus for Orienting the Single-Crystal Target of an Electron Synchrotron —V. N. Kuz'min, Yu. I. Sertakov, and V. D. Epaneshnikov	93	33
Tritium Sandwich Targets for a Neutron Generator—L. N. Katsaurov, A. N. Kuznetsov, and I. V. Surkova	795	35
Single-Isotope Ti, Zr, and Hf-Targets for Nuclear Research—L. G. Lishenko, T. S. Nazarova, A. A. Rozen, and L. N. Reshetova	797	37
Anticoincidence Spectrometer with a Ge(Li) Detector—I. P. Sadokhin and A. I. Lashchuk ..	799	39
Viewing Table for Processing Photographs from Large Bubble Chambers—K. Wattenbach, V. Gresch, G. Novatsky, and R. A. Pose	801	41
Semiautomatic Apparatus for Measuring Photographs of Bubble Chambers—R. Leiste, H. Lippoldt, and R. A. Pose	805	44
A Measuring Projector for Analyzing Bubble Chamber Photographs—H. Kitst, K. Kuhn, H. Lippoldt, G. Nowacki, R. A. Pose, H. Thom, and P. Hein	808	46
Instrument for Measuring the Ionization of Charged Particles in Bubble Chambers —K. Wattenbach, H. Kaufmann, and R. A. Pose	811	49
High-Pressure Cylindrical Track Spark Chamber—A. V. Alakoz, O. P. Babushkina, V. N. Bolotov, and M. I. Devishev	813	51
Small Pulse Fission Chambers—A. B. Dmitriev, E. K. Malyshev, and I. A. Reformatskaya ..	817	55
Recording of α -Particles by Means of Nitrocellulose Film—A. V. Mitrofanova and Yu. N. Ranyuk	821	58
Threshold Cerenkov Counter with Recording of the Ultraviolet Part of the Spectrum —A. M. Blagorodov, V. V. Vladimirov, G. K. Kukavadze, B. Ya. Kuznetsov, and N. V. Novikova	823	59
Filter Method for Determining the Optical Spectra of Scintillations—N. G. Volkov, G. V. Ivanov, V. K. Lyapidevskii, and I. M. Obodovskii	830	65
Technical Light Output of NaI-Based Scintillators—M. E. Globus, A. M. Ratner and Yu. A. Tsirlin	832	67

(Contd.)

Available From Consultants Bureau

	Engl./Russ.
Stability Criterion for a Measuring Instrument—F. S. Zavel'skii	834 69
ELECTRONICS AND RADIO ENGINEERING	
Associative Address Memory Device of a Million-Channel System—R. G. Ofengender, G. B. Lyubanskii, P. N. Svetlichnyi, and I. D. Dychenko	838 73
Distribution of the Working Time at a Measuring Center Among the Subscribers —V. I. Smirnov and V. N. Kabenin	845 81
Output of Data from a M-20 Computer to a Remote Telegraph Apparatus—V. V. Gavrilov, L. P. Konstantinova, A. V. Kutsenko, Yu. V. Stupin, A. P. Sorokin, and V. V. Pritsyn	850 85
Coincidence-Anticoincidence Circuit having a Short Resolving Time for Operation under Heavy Loads—V. P. Kanavets, B. V. Morozov, N. A. Nikiforov, and A. S. Starostin	854 89
High-Speed Scaling Circuit using Tunnel Diodes and Transistors—V. G. Vovchenko and V. M. Zheleznyakov	858 93
Parametric Circuit for Selecting Radio-Frequency Pulses according to Duration—V. A. Guseva ..	860 95
IVI-1 Time-Interval Meter—L. S. Zazhigaev, V. A. Matnya, N. I. Pashkov, G. I. Savinov, , and V. S. Yaroslavtsev	863 98
Wide-Band Time-to-Amplitude Converter—Yu. G. Budyashov and V. G. Zinov	868 102
Gate Using a Differential Transformer—M. V. Korolev	871 105
Shaping of Nanosecond and Picosecond Video Pulses—D. Yu. Éidukas	873 107
Precision-Amplitude Pulse Generator—V. M. Suvorov and A. I. Shchetkovskii	880 112
Random Pulse Generator—V. M. Taukchi	882 114
Nanosecond Current Pulse Generator for Supplying Semiconductor Lasers—B. M. Koval'chuk ...	884 116
Generator of Sinusoidally Modulated Current Pulses for Supplying Semiconductor Lasers —S. S. Barkalov and V. N. Deryagin	888 119
Correction of the Pulse Shape of a Relaxation Generator Using a Secondary Emission Vacuum Tube—O. S. Kolotov	891 122
Controlled Delay of High-Power Nanosecond Pulses with the Use of the Magnetization Reversal Time of Ferrites—R. B. Baksht, A. S. El'chichin, and G. A. Mezyats	893 124
Some Defects in the Charge Detector Amplifier Circuit—V. F. Lyutenko	896 126
Instrument for Measuring Small Increments of Resistance—V. I. Kostenko, P. E. Stadnik, and V. N. Zvyagintsev	900 130
Coupling Circuit of a Photoconverter of a Linear-Movement Pickup—D. A. Asfendiarov and V. V. Dobryn	903 133
Q Measurement of Superconducting Resonators—F. F. Mende, V. M. Dmitriev, E. V. Khristenko, and G. E. Churilov	905 134
Cadmium Sulfide Thin-Film Hypersonic Transducers—A. N. Chernets, E. M. Ganapol'skii, N. L. Kenigsberg, V. E. Popov, and A. Ya. Nevelev	908 137
System for Measuring Infrared Radiation by Means of a Bolometer with Automatic Compensation for the Unbalance of the Bridge—A. V. Kartashev and M. N. Markov	913 142
Measurement of Chemical Shifts on NMR-5535 Spectrometer—L. M. Kapkan	918 146
Determination of Sign of Spin Transitions in Electron Paramagnetic Resonance—A. M. Belonogov Wideband Current Stabilizers—S. S. Yastrebov, N. V. Lazarev, and A. M. Kozodaev	919 147
	921 149
GENERAL EXPERIMENTAL TECHNIQUES	
Use of Various Types of Mass Spectrometers for Studying the Decomposition Processes of Polymers—A. V. Amelin, Yu. A. Glagoleva, O. F. Pozdnyakov, and V. R. Regel'	924 152
Pulsed Spark Sorption Pumps—L. K. Bruneller, A. P. Gorshkov, N. G. Pavlovskaya, A. M. Rodin, and V. A. Tsukerman	928 156
	(Contd.)

Available From Consultants Bureau

Engl./Russ.

Low-Capacity Mercury-Vapor Diffusion Pump for Ultrahigh Vacuums—V. F. Rybalko, Ya. M. Fogel', V. I. Tatus', and V. G. Granovskii	932	159
Some Characteristics of Carbon Adsorption Pumps—V. P. Babichuk, L. S. Dikina, B. N. Esel'son, and I. A. Serbin	934	161
Method for Determining the Vapor Pressure of Metals and Alloys from the Rate of Flow of the Vapor through a Diaphragm—N. S. Kudryavtsev and L. I. Ivanov	936	163
Pneumatic Ultrahigh-Vacuum Valves with Indium Seals—A. V. Arefev, V. Ya. Lisitsin, and S. P. Maksimov	938	165
Semiautomatic Instrument for Investigating Gas-Discharge Plasma in a Magnetic Field—L. A. Levshuk	943	169
Instrument for the Investigation of Secondary Electronic and Photoelectric Emission of Substances with a High Resistivity—L. Ya. Bubnov and E. L. Frankevich	945	171
Method of Measuring the Temperature of Field Emitters—S. Miruz and É. Chzanovski	950	176
Effect of Electrostatic Field on Image Formation in the Field Ion Microscope—V. T. Borisov, V. I. Kirilenko, and L. P. Potapov	952	178
Simple Method of Determining the Sensitivity Curve of a Photomultiplier—E. P. Pakhomov	957	183
Instrument for Studying the Spectral and Kinetic Characteristics of Luminescence with Electron Excitation—É. D. Aluker, I. S. Tomkus, and S. A. Chernov	958	184
Generation of Light Pulses of Special Form—O. F. Butyagin, V. G. Dmitriev, V. V. Kudryavtsev, T. V. Petrova, and Yu. A. Yanait	961	186
Automatic Frequency Control of a Laser and Regenerative Amplifier—V. M. Andriyakhin, A. G. Basiev, V. V. Lebedeva, and A. I. Odintsov	963	188
Method of Obtaining Ultra-Strong Constant Magnetic Fields—V. G. Veselago, L. P. Maksimov, and A. M. Prokhorov	967	192
Measurement of Magnetic-Field Inhomogeneity to High Accuracy—G. S. Anufriev and B. A. Mamyrin	970	195
Measurement of Gas Flow Velocity by the Electrical Breakdown Method—P. G. Zykov, A. M. Filatov, and P. E. Suetin	974	199
Method for Producing Loose Films with a Thickness of ~100 nm from Volatile Substances Mg, Zn, and Te—O. M. Sorokin and T. N. Podkladenko	979	204
Methods for Determining the Thickness of Thin Films Applied to a Dissimilar Material—V. K. Voitovetskiĭ, I. L. Korsunskii, and N. S. Tolmacheva	982	206
Device for Determining the Young's Modulus of Metals and Alloys in the Temperature Range 4.2-300°K—R. A. Ul'yanov, N. D. Tarasov, L. S. Krundarev, L. F. Mar'yanina, and V. A. Moskalenko	983	207
Capacitive Sensor for Measuring Ultralow Temperatures—V. I. Makhan'kov, I. S. Sidorenko, and G. P. Shernomayev	986	210
ABSTRACTS		
Master Element of the Time Program for Controlling the Operation of Bubble Chambers—V. F. Sikolenko	989	213
Design of Samplers for the Synthesis of Transuranium Elements on the Internal Beam of Ions of the 310-Centimeter Cyclotron—I. V. Kolesov	990	214
Ion-Optical System of a Plasma Source—V. I. Raiko and B. E. Gavrilov	992	215
Wide-Range Magnetic Spectrograph—A. K. Val'ter, A. S. Deineko, I. Ya. Malakhov, A. I. Kovalenko, and A. Ya. Taranov	994	216
Method of Determining the Ranges of Fragments by Thick Absorbers—G. A. Fedoseev, L. P. Moskaleva, and B. Ya. Shcherbovskii	995	217

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

PRIBORY I TEKHNIKA EKSPERIMENTA No 4, July-August, 1968

Engl./Russ.

Measurement of the Topography of the Magnetic Field in Electromagnets for Bubble Chambers—P. P. Gordeev and S. V. Skach	997	218
Microdistortions in Nuclear Emissions Caused by Adhesion of the Layers before Development—V. I. Baranov	999	219
Input Unit of a Multivariate Analyzer—V. F. Churilo and V. I. Smirnov	1001	220
Errors Related with the Dead Time of Counters during Fluctuations of Source Intensity—A. M. Shenderovich	1002	221
Time-to-Pulse-Height Converter with Automatic Protection of the Measuring Circuits Against Large Loads—K. N. Bakinovskii, V. A. Danilov, and A. F. Chernyavskii	1004	222
Interpolation Time-Interval Meter—G. A. Aver'yanov and E. G. Lebed'ko	1005	223
Three-Channel Metallic Sample Introduction System for a Mass Spectrometer—I. M. Adel'bert and É. R. Sats	1007	224
Apparatus for Studying the Interaction of 10-100 keV Ions with a Solid—S. Ya. Lebedev, V. E. Dubinskii, O. I. Kapusta, V. I. Krotov, N. M. Onel'yanovskaya, and S. D. Panin	1009	225
Instrument for Measuring Short Lifetimes of Hot Charge Carriers in Semiconductors—V. G. Ivanov and A. I. Morozov	1011	226
NEW INSTRUMENTS		
AO-6P Transfer Function Analyzer	1013	227
PÉ10-20 Electronic Potentiostat	1014	228
ÉM-64 Electrometric Millivoltmeter	1014	228
MSKh-3A Time-of-Flight Mass Spectrometer	1015	229
TPN-1u Inductive Thickness Gauge	1015	229
VUP-1 General-Purpose Vacuum Station	1016	229
UZDN-1 Ultrasonic Disperser	1017	231
ERRATA	1018	

The Russian press date (podpisano k pechatu) of this issue was 8/13/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

INSTRUMENTS and EXPERIMENTAL TECHNIQUES

A translation of *Pribory i Tekhnika Eksperimenta*

Number 5

September-October, 1968

CONTENTS

	Engl./Russ.
Fiftieth Anniversary of the State Physicotechnical Roentgenological Institute (GFTRI) —A. F. Ioffe Physicotechnical Institute of the Academy of Sciences of the USSR	1019 5*
Methods of Separating Weak Periodic Signals from Noise (Review)—A. V. Potapov, V. V. Chekalov, and A. F. Chernyavskii	1020 7
NUCLEAR EXPERIMENTAL TECHNIQUES	
Compensating System for Injecting Particles into the Constant Field of a Storage-System Track—E. S. Mironov, V. N. Pakin, and G. I. Sil'vestrov	1035 23
Telemetric System for Measuring the Parameters of a Proton Foreinjector—Yu. A. Rychkov, Yu. I. Romanov, and Sh. Z. Saifulin	1039 27
Recording of Electron Orbits in a Microtron by Means of Alkali Halide Compounds —A. P. Zhuk, M. L. Kats, V. K. Nikol'skii, N. N. Sorokin, and V. P. Stepanchuk	1044 31
Magnetic Separator for the Ion Source of an Electrostatic Accelerator—A. I. Kurillov and V. M. Morozov	1047 34
Transporter Charging System for an Electrostatic Accelerator—V. M. Morozov, N. A. Morozov, and A. V. Peshkov	1049 36
Calibration of Scintillation 4π - γ -Spectrometers by Means of the Total Peak Method—V. A. Vetrov Wide-Capture Magnetic Spectrometer Having High Resolution and High Luminosity —N. G. Afanas'ev, V. A. Gol'dshtein, V. S. Dementii, and L. D. Yaroshevskii	1051 37 1055 41
Neutral-Particle Source—N. I. Alinovskii and Yu. E. Nesterikhin	1057 42
Current Meters for Noncontact Measurements of Charged-Particle Beam Intensities —G. A. Koval'skii, V. I. Aref'ev, and Yu. P. Maishev	1061 47
Power Supply for Multigap and Wide-Gap Spark Chambers—I. K. Zhankov, V. M. Kuznetsov, and O. I. Stukov	1066 50
Angular Measurements of Fission-Fragment Tracks in an Ionization Chamber—B. G. Basova, O. I. Ivanov, Yu. A. Kushnir, and A. M. Shimanskii	1068 53
System for Selecting Particle Tracks in Bubble-Chambers within Their Scanning Zones —S. P. Buyukyan and A. S. Nanasyan	1073 58
Current Ionization Fission Chamber with a "Non-Burning-Up" Radiator—E. K. Malyshev	1076 61
Silicon Detectors for Registering Pulsed Streams of γ Radiation—P. S. Kireev, I. A. Arkhangel'skii, Yu. D. Bespyatov, Yu. A. Brusov, V. I. V'yunkovskaya, B. V. Gavrilovskii, G. I. Kol'tsov, and V. I. Mitin	1079 63 1082 65
End-Window Counter with Attached Anode—K. N. Shlyagin and G. I. Savel'ev	1084 67
Automatic Compensation of the γ -Background in a β -Radiometer—A. A. Petushkov	1087 70
Measurement of γ and Neutron Components in Mixed Fields by Means of Plastic Scintillators—E. E. Baroni, D. V. Viktorov, S. F. Kilin, I. M. Rotman, and V. M. Shoniya Parameters of Scintillators for Resolving Neutrons and γ Rays by the Pulse Shape —L. E. Grudskaya, V. F. Poduzhailo, and Yu. A. Tsirlin	1090 73
Liquid Scintillators on a Machine Oil Base—I. I. Zemskova, L. Ya. Zhil'tsova, and V. G. Tyminskii	1093 75

(Contd)

Available From Consultants Bureau

ELECTRONICS AND RADIO ENGINEERING

Time-Amplitude Converter in the Microsecond Range for Investigating Asymmetry of μ -e-Decay—E. A. Meleshko	1094	77
NUVISTOR Preamplifier for Work with Semiconductor Detectors—Yu. F. Rodionov and V. S. Shiryayev	1098	81
Reversible Decatron Counter—V. G. Galalu, R. V. Korobkov, and V. E. Shakhmatov	1101	84
Relation between Signals in Different Recording Systems—N. G. Volkov and V. K. Lyapidevskii	1103	86
Spectrometric Measurements on the Minsk-2 Electronic Computer—V. A. Vladimirov, F. Duda, G. I. Zabiyaikin, and Z. V. Lysenko	1106	89
Two-Channel Synchronous Numeric Printer—F. S. Zavel'skii and A. L. Kerzin	1111	94
Current Pulse Generator—B. F. Bayanov, A. V. Il'in, V. N. Pakin, A. P. Panov, and G. I. Sil'vestrov	1113	96
Transistor Generator for Rectangular Nanosecond Pulses of Controlled Duration—V. P. D'yakonov	1118	101
Twenty-Channel Nanosecond Pulse Generator for Supplying Pulse Light Sources—N. K. Vishnevskii, V. I. Rykalin, and Z. Tsisek	1122	105
Nanosecond High-Voltage Pulse Generators with a Controlled Amplitude—V. G. Kalinina and Yu. L. Stankevich	1125	107
Pulse Generator Based on Dinistors—V. A. Grechishkin, N. P. Zorin, L. A. Ushakov, and Yu. D. Kharizman	1128	110
Video-Noise Generator—É. V. Brodnikovskaya and V. M. Rozhkov	1130	112
Transitron RC Oscillator with Electronic Tuning—Z. M. Kanevskii and V. A. Kitin	1132	114
Single-Sideband Amplitude Modulator in the Millimeter Band for Phasecometers with Homodyne Frequency Conversion—O. A. Zinov'ev	1133	115
Radiometer for Spectral Measurements in the 8-mm Range with a Quantum Paramagnetic Amplifier—V. I. Zagatin, G. S. Mizezhnikov, V. A. Puzanov, A. E. Salomonovich, R. L. Sorochenko, and V. B. Shteinshleiger	1137	118
Sign Correlator for Low-Frequency Signals—E. S. Burunsuzyan, O. V. Leonov, and M. G. Tokhmakhyan	1141	122
Instrument for Investigating Diffraction Phenomena at Periodic Structures in the Millimeter Band—Ya. S. Komissarov, V. A. Pavlyuk, G. G. Polovnikov, A. V. Provalov, and V. P. Shestopalov	1145	125
Oversize Waveguide Interferometer—L. V. Lubyako	1150	130
Microwave Cavity Measurements of Resistivity of Semiconductor Materials—D. V. Iremashvili, N. I. Leont'ev, and G. M. Mailov	1153	132
Bipolar High-Voltage Source with Frequency Conversion—N. S. Glagoleva, A. T. Matyushin, V. T. Matyushin, R. Firkovskii, and M. N. Khachatryan	1156	134
Electronic Device for Measuring Small Mechanical Vibrations—V. B. Braginskii and V. I. Panov	1159	136
Potentiostat for Electrochemical Polishing—A. N. Vetchinkin and M. A. Golosova	1162	139
Use of an Exploding Wire as a Current Commutator—Yu. A. Anan'ev and V. P. Kalinin	1164	140
Instrument for Measuring Parameters of Radio-Frequency Signals—Yu. A. Blyumkina, V. N. Lazakov, and I. B. Yakovkin	1167	143
Circuit for Synchronizing the Triggering of an Oscilloscope—A. G. Belyavskii	1171	146
High-Resistance Miniature Semiconductor Voltmeter—L. I. Gershtein	1173	148
Transistor Memory Cell—N. I. Mel'nikov, A. E. Reinboz, and M. T. Chapovskii	1175	149
Device for Calibrating Magnetic Spectrometers against Standard Lines—S. V. Skachkov and R. V. Chumakova	1176	150
Apparatus for Study of Electrical Explosions—V. I. Petrosyan, É. I. Dagman, and V. N. Sarganov	1178	152

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

PRIBORY I TEKHNIKA EKSPERIMENTA No 5, Sept-Oct, 1968

Engl./Russ.

Measurement of Distribution of Contact Potential Difference with the Aid of a Vibrating Microelectrode—A. A. Sadovnichii, S. S. Kil'chitskaya, and R. O. Litvinov	1182	156
Field-Emission Microscope for Measuring Field Emission from Separate Faces of Single Crystals—B. M. Palyukh and L. L. Sivers	1184	158
GENERAL EXPERIMENTAL TECHNIQUES		
Mass Spectrometric Study of Residual "Background" in a Vacuum System Employing an Oil Diffusion Pump—A. É. Rafal'son, M. G. Vinn, and G. I. Stanevich	1187	162
Titanium Sorption Pumping System for Ultrahigh Vacuum—A. A. Kuz'min, V. S. Zhil'nin, and M. I. Men'shikov	1191	166
Quick-Acting Valves for Admitting Short Gas Pulses into Vacuum Devices—G. I. Dimov	1193	168
Modulation Receiver of Weak Light Radiation Based on Discrete Photon Counting—Yu. V. Gorokhov, M. N. Devyatkov, and G. I. Ovchinnikova	1196	171
Investigation of the Photomultiplier FÉU-77 for Reception of Short Pulses at the Wavelength 700 nm—T. A. Dem'yanova, V. I. Markov, F. M. Subbotin, and E. I. Shubnikov	1199	174
Reference Signal Source Based on Electroluminescence Diodes for Scintillation Counters—M. N. Omel'yanenko, V. K. Tyupikov, and V. V. Fil'chenkov	1202	177
Circuit Scheme for Modulation of the Output Voltage of a Photomultiplier—N. I. Alinovskii and B. K. Bakhtusov	1205	179
High-Sensitivity Differential Split-Beam Spectrophotometer Developed from the Spectrophotometer SF-10—S. I. Aksenov, V. N. Verkhoturov, and B. S. Kaurov	1207	181
Nonadjustable Scanning Fabry-Perot Interferometer—V. P. Koronkevich, D. A. Solomakha, and A. K. Toropov	1211	185
KFL-2 Ionization Chamber for the Measurement of High-Intensity Fluxes of Vacuum Ultra-Violet Radiation—B. I. Khrushch, A. B. Dmitriev, and A. N. Lyulichev	1215	188
Crystal Holography—K. A. Garibashvili, V. V. Mumladze, and O. A. Chikhladze	1217	190
Absolute Output Power Measurement of CO ₂ Lasers—N. V. Karlov and G. P. Kuz'min	1219	191
Magnetic-Resistance Sensors Based on Indium Arsenide Films for Measuring the Gradient of a Magnetic Field—V. A. Vlasov and S. A. Semiletov	1220	192
Miniature Magnetizing Device for Producing a Uniform Alternating Magnetic Field—V. M. Mogilevskii	1224	196
Quartz-Type Generator of a Rotating Magnetic Field with Frequency Tuning—V. M. Ponomarevskii, I. A. Maleev, and S. A. Petukhov	1228	200
Ultrahigh-Pressure Gas Thermocompressor—S. S. Boksha	1231	203
X-Ray Apparatus with Three-Electrode Tube—V. G. Tsukerman, V. I. Dotsenko, V. M. Finogenov, and G. T. Merkel'	1233	205
Optical Method of Checking the Bend of Crystal Analyzers of X-Ray Spectrographs—V. P. Dzeganzovskii	1237	208
Electropolishing Device for Preparing Electron Microscopy Metal Specimens—V. P. Lebedev and V. I. Khotkevich	1239	210
Statistical Method of Checking the Homogeneity of the Parameters of Semiconductor Materials—N. B. Strokan, N. I. Tisnek, and V. F. Afanas'ev	1241	211
Ohmic Contacts to Gallium Phosphide—R. S. Ignatkina, R. N. Krivosheeva, S. S. Meskin, V. N. Ravich, and N. F. Sil'vestrova	1245	215
New Reference Material for Thermal-Conductivity Measurements—E. V. Shadrichiev and I. A. Smirnov	1249	218
Manufacture of Large-Area Free Thin Nickel Film—S. A. Karamyan and Yu. É. Ponomozhkevich	1250	219

(Contd)

Available From Consultants Bureau

CONTENTS

(continued)

ПРИБОР И ТЕХНИКА ЭКСПЕРИМЕНТА

№ 5, Sep-Oct, 1968

Engl./Russ.

ABSTRACTS

Efficiency of Trapping Secondary Charged Particles in Accelerating Tubes with Oblique Fields—A. N. Serchenov and A. V. Mazhulin	1252	221
High-Current 2.5-MeV Accelerator—E. A. Abramyan, V. A. Gaponov, G. S. Krainov, V. S. Nikolaev, and I. M. Shalashov	1253	222
Excitation of a Magnetic Field in a Synchrotron with External One-Revolution Injection—M. Yu. Gelf'tser' and V. S. Panasyuk	1255	223
Instrument for Analyzing the Mass and Energy of a High-Current Ion Beam—Yu. G. Gendel' and V. A. Zenin	1257	224
Determining the Intensity and Energy of Multiply Reflected β -Particles from the Attenuation Curve—L. M. Boyarshinov	1259	225
Measuring the Angular Distributions of Fission Fragments by the Glass Method—A. S. Soldatov, I. E. Bocharova, and G. N. Smirenkin	1261	226
Vacuum Evaporation of UO_2 , NpO_2 , AmO_2 , and Cm_2O_3 for the Manufacture of Thin Films for Nuclear Research—V. M. Surin, A. N. Maslov, V. S. Sokolov, and G. A. Danilov ...	1263	227
Multichannel System for Measuring the Yield of (γ, p) Reactions—B. S. Ishkhanov, I. M. Kapitonov, I. M. Piskarev, O. P. Shevchenko, and V. G. Shevchenko	1265	228
Electron Gun with a Plasma Cathode—P. P. Golik, V. A. Gruzdev, Yu. E. Kreindel', and L. A. Levshuk	1267	229
Titanium Vaporizers Used on the Ogra in the Nitrogen Pumping System—V. I. Butusov, E. A. Maslennikov, M. Ya. Milyagin, I. A. Chukhin, and T. A. Shevchenko	1269	230
Ionization Manometer for the Measurement of Ultrahigh Vacuums in Systems with Strongly Varying Magnetic Fields—V. F. Zubarev and E. A. Penchko	1270	231
Calibration Characteristics of a Cold-Cathode Magnetron Vacuum Gage—G. A. Nichiporovich and I. F. Khanina	1271	232
Network for Stabilizing the Amplitude of the Output Pulses of a Photoelectron Multiplier in a Scanning Measuring Projector—A. N. Alekseev, V. P. Mikhnev, and B. S. Rozov ...	1272	233
Magnetic Scales for Measuring Susceptibility According to the Faraday Method in the Temperature Range from Room Temperature to Helium Temperature—R. B. Lyubovskii and I. F. Shehegolev	1273	234
Stabilized Magnet Power Supply—I. F. Kalinkevich	1275	235
NEW INSTRUMENTS		
RSM-500 X-Ray Spectrometer-Monochromator—V. A. Zelentsov	1276	236
ÉM-5-DU Remote-Controlled Electronic Microbalance—V. A. Zelentsov	1276	237
ÉD-65 Dynamic Capacitor Electrometer—V. A. Zelentsov	1277	237
UZDN-1 Ultrasonic Low-Frequency Disperser—V. A. Zelentsov	1277	238
MII-10 Immersion-Replica Microinterferometer—V. A. Zelentsov	1278	238

The Russian press date (podpisano k pechati) of this issue was 10/10/1968. Publication therefore did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau

RUDARSKO-METALURŠKI ZBORNIK
No 2, 1968

Orepek, D.: <i>Correlation Analysis in Separation Technology</i>	5
Dolbovišek, B., and B. Korušič: <i>Reduction Kinetics of Fe_2O_3 in Fe_3O_4 at Low Temperatures</i>	15
Drovenik, M.: <i>Pseudomorphs of Ore Minerals after Plant Fragments in the Skofje Copper Ore Deposit</i>	29
Kovačič, T.: <i>Gas Concentrations in the South Part of the Velenje Coal Field</i>	37
Trbižan, M.: <i>Testing Bentonites with Measuring Their Condensation Layer Strength</i>	59
Tarter, K.: <i>Symposium on Drilling and Blasting, Rovne 1968</i>	67
Available From CFSTI TT 68-50059/2	

SAVREMENA POLJOPRIVREDA
Vol 15, No 9-10, 1967

	Page
M. Car: Effects of Some Basic Physiological, Nutritional and Technical Factors of Intensive Beef Fattening	5
M. Milovanović, L. Kenčar, D. Čirić, and M. Nenadović: Effect of Season on Some Physical Properties of Wool Fibers in Merino de l'Est and Cigaja Sheep	15
J. Gotlin, A. Pucarić, and V. Bojanić: Some Anatomic Leaf Characters of Inbred Lines and Single Crosses of Corn	27
M. Milić: Irrigation Regime and Fertilization of Sugar Beet in Metohije	35
M. Popović: Early Pepper Production in Hotbeds	45
M. Mijačika: Effect of Fruit Thinning in Peaches on Their Quality and Yield	53
M. Rudić, M. Korać, and M. Ubavić: Effect of Fruit Thinning Time on Peach Yield and Quality	59
L. Avramov, K. Briza, A. Jurčević, and V. Gvozdenović: Development of a Rapid Stereomicroscopic Eye Study Method to Dejer- mine Fruitfulness in the Dormant Grapevine	65
D. Tadijanović: Reaction Firmness of Berries of Some Grape Varieties Against Mechanical Pressure Depending on Presser Area	73
H. Sabana: Effect of Alpha Naphthyl-Acetic Acid (NAA) on Seed Germinability and Germination Energy in Major Citrus Rootstocks	85
V. Nikolić and D. Stakić: Longevity of Some Plant Viruses in Dehydrated Leaf Tissue	91
A. Stanković, R. Sovljanski, T. Stojanović, and V. Kosovac: Degradation of Malathion Preparations Used for Stored Sunflower Seed Pest Control	99

Available From CFSTI TT 67-58014/9-10

SAVREMENA POLJOPRIVREDA
Vol 15, No 11, 1967

	Page
<i>Karlo Briza, Rodoljub Lović, and Milorad Zorzić:</i>	
Effect of Different Fertilizer Rates and Ratios of Basic Nutrient Elements on the Growth Potential of Vines of Some Vine Rootstocks — — —	5
<i>Lazar Avramov and Đura Tadijanović:</i>	
Effect of Vine Rootstocks Berlandieri x Riparia Kober 5BB and Rupestris du Lot on the Development and Fruit-Bearing of Red Gamay in the Period of Increasing Yield — — — — —	23
<i>Sima Lazić:</i>	
Effect of the Number of Wires and Position of Cordons on Grape Yield and Quality — — — — —	33
<i>Slavko Borojević:</i>	
The Importance of Variety Selection for the Improvement of Wheat Production — — — — —	45
<i>Vasa Momčilović:</i>	
Studies in Sources of Resistance with the Aim Donor Selection for the Program of Breeding for Resistance to <i>Puccinia recondita</i> F. Sp. Triticum	59
<i>Mladen Lekić:</i>	
Harmful Entomofauna of Strawberry and Raspberry Plantations in Serbia	69
<i>Lazar Stanković:</i>	
Testing New Pig and Poultry Drinkers — — — — —	81
<i>Radovan Popov:</i>	
The Need to Introduce a Standard Type of Small Tractor in the Light of Prospective Categorization, Present Production and Utilization of Tractor in Yugoslavia — — — — —	89
<i>Review:</i> — — — — —	101

Available From CFSTI TT 67-58014/11

SAVREMENA POLJOPRIVREDA
Vol 15, No 12, 1967

	Page
<i>Slavko Borojević:</i>	
Red Star — A New Wheat Variety — — — — —	5
<i>J. Smoček and J. Sigmundová:</i>	
Selection Indexes and Their Use in Predicting Highest Yielding Winter Wheat Genotypes — — — — —	17
<i>Vinko Milinković:</i>	
The Occurrence of Mottling on Soybean Seeds — — — — —	29
<i>Sredoje Stanačević and Boriša Spasojević:</i>	
The Effects of Treatment with Radioactive Phosphorus on Sugar-Beet Yield and Quality — — — — —	35
<i>Predrag Lučić and Predrag Vuksanović:</i>	
Spread of the Root System of the Italian Riesling Vine on Berlandieri x Riparia Kober 5 EB Rootstocks on Brown Calcareous Soil — — —	45
<i>Asen Stančević:</i>	
The Number of Runners Formed by Different Strawberry Varieties —	55
<i>Momčilo Milić:</i>	
The Irrigation and Fertilization on Sunflowers in Metohija — — --	59
<i>Slobodan Živković, Stevan Glavaški, Slavko Pejin and Miloš Kosanović:</i>	
Effect of Aureo SP-250, Furazolidon and Copper in Rations for Early-Weaned Piglets — — — — —	67
<i>Timotej Cobić, Čedomir Obradović, Stevan Bačvanski, and Sofija Vučetić:</i>	
Effects of High Concentrate Rations and Different Amounts of Alfalfa Hay on Fattening — — — — —	75
<i>Milan Belić and Milivoje Stanković:</i>	
Effects of Pig Birth Weight on Pre-Weaning Development — — — —	83

Available From CFSTI TT 67-58014/12

SAVREMENA POLJOPRIVREDA
Vol 16, No 2, 1968

	Page
<i>Jovan Belić, Aleksandar Ognjanović, Dragoslav Isakov, and Vasa Isakov:</i>	
Comparative Investigation of the Fattening Ability, Carcass Yield and Carcass Composition of the Yugoslav Meat Breed, Large White, Swedish Landrace and Mangulica — — — — —	5
<i>Stevan Bačvanski, Čedomir Obratović, Svetozar Milovančević, and Sofija Vučetić:</i>	
Effects of Replacing Corn Silage with Green Fodder on Weight Gain and Intake Efficiency in Fattening Beef Steers — — — — —	33
<i>Jan Čížek:</i>	
Borsecm Clover (<i>Trifolium Alexandrinum</i>) Cultivation in Yugoslavia	41
<i>Mihal Husar:</i>	
Economic Value of the Hop Variety Petrovački Polurani Crvenjak —	53
<i>Mihal Husar:</i>	
Biological Potential of Slovenian Golding and Northern Brewer Hop Varieties — — — — —	57
<i>Milivoj Mijačika:</i>	
Effects of Thinning upon the Frost Resistance of Peach Blossom Buds —	63
<i>Miroslav Milovankić and Bogoljub Đurić:</i>	
Some Important Characters of Certain Sweet Cherry Varieties in Vojvodina — — — — —	69
<i>Bogoljub Konstantinović and Momčilo Milutinović:</i>	
Influence of Bees on Yield Increase in Some Apple and Pear Varieties	79
<i>Prokopije Milenković:</i>	
Groups for Mechanization in Agricultural Cooperatives as a New Form of Collaboration between Cooperatives and Peasants — — — — —	85
<i>Miloje Sarić:</i>	
The History and the Present State of Plant Physiology at the Academy of Science of the USSR — — — — —	93

Available From CFSTI TT 68-50058/2

SAVREMENA POLJOPRIVREDA
Vol 16, No 3, 1968

	page
<i>Božidar Panić, Vitomir Hristić, Margita Cuperlović and Darko Stojić:</i> Metabolism of Cobalt in Laying Hens	5
<i>Dragoslav Isakov and Vasa Isakov:</i> Use of Antibiotics and Other Additives in Feeding Weaned Pigs of 5--9 Weeks of Age	15
<i>Ladislav Končar:</i> Bases of Genetic Improvement of the Population of Domestic Red- -Mottled Cattle by Artificial Insemination in the Vojvodina Area . . .	27
<i>Dragoljub Bošnjak:</i> Productive Qualities of Some Foreign and Domestic Varieties of Alfalfa in the Eastern Slavonija Area	37
<i>Petar Dokić:</i> Properties of the F ₁ Root Generation of Monogerm Triploid Sugar Beet .	51
<i>Vinko Milinković, Mitar Bašović and Dane Batinić:</i> Possibility for an Increase in the Yield and Quality of Orchard Grass Green Mass by Selection and Nitrogenous Manuring	69
<i>Zora Sarić:</i> Quantitative Composition of the Rhizosphere Microflora of Soya Bean .	77
<i>Adam Marić and Rudolf Kastori:</i> Conductivity of the Vascular Bundles and Water Regime in Plants Diseased With Corn Redness	85
<i>Jelena Jevtić and Zdravko Kosovac:</i> Effectiveness of Weed Eradication in Fishponds with Herbicides . . .	95
<i>Stanoje Milošević:</i> Calculation of Evaporation and Evapotranspiration According to the Method of the French Authors Turc and Bouchet and the Possibility of Its Application in Yugoslavia	103

Available From CFSTI TT 68-50058/3

L. M. Potapov BALAI GOLD DURING THE YEARS OF SOVIET POWER.....	1	(1)
Z. V. Chumak THE LEAD-ZINC INDUSTRY DURING 50 YEARS OF THE SOVIET STATE.....	6	(5)
A. G. Galversonskii and V. A. Karchevskii STAGES IN THE GREAT JOURNEY.....	16	(14)
A. A. Abramov THE SIKHALI COMBINE.....	23	(19)
R. M. Dudin THE FIRST NICKEL WAS BORN HERE.....	29	(24)
V. P. Sosedov THE USSR ELECTRODE INDUSTRY.....	37	(30)
M. L. Pavzner, V. I. Chcherbakov, and V. P. Popov RESULTS OF INDUSTRIAL TESTS ON THE COMMUNITION AND SIZE REDUCTION OF GOLD CONTAINING CLAYEY ORES IN DRUM MILLS.....	44	(37)
D. I. Kogan, V. A. Ryehagov, A. D. Forsin, and Z. M. Krachko INDUSTRIAL TESTS ON SULFIDE LIQUOR AT THE TUDSK PLANT.....	47	(39)
L. V. Soroker, Yu. I. Dukhanin, and I. A. Batychko EXPERIENCE IN THE USE OF MULTI- FACTORIAL PLANNING FOR THE OPTIMIZATION AND MATHEMATICAL TREATMENT OF FLOTATION PROCESSES.....	48	(40)
V. I. Demidov, R. Z. Kreines, M. I. Ivanova, and A. S. Kartasheva PILOT PLANT TESTS ON ADSORPTIVE EXTRACTION OF GOLD FROM WASTE CYANIDE SOLUTIONS.....	53	(44)
D. Ya. Timoshin A METHOD OF ELIMINATING THE STICKING OF SOLID MATERIALS TO THE COMPONENTS OF VIBRATING FEEDERS.....	62	(50)
E. V. Margulis and I. M. Cherednik KINETICS OF SULFATING-ROASTING PYRITE-COBALT CON- CENTRATE IN A FLUIDIZED BED.....	64	(51)
R. Z. Maizlish, T. V. Gran', and V. A. Chemlev OPTIMUM CURRENT DENSITY DURING ELECT- ROLYTIC REFINING OF NICKEL IN SULFATE-CHLORIDE ELECTROLYTES.....	71	(56)
L. P. Shul'gin, Yu. A. Kos'min, E. V. Davydov, and M. G. Serba RECOVERING ARSENIC FROM CONVERTER DUSTS OF LEAD PRODUCTION.....	76	(60)
B. I. Arluk EFFECT OF COOLING CONDITIONS ON THE QUALITY OF NEPHELINE CASES.....	79	(62)
V. Ya. Nikitin EFFECT OF ELECTROLYTE ADSORPTION ON THE PHYSICO-CHEMICAL PROPERTIES OF CARBON-LINING BLOCKS.....	82	(65)
E. R. Chumakova COMPACTION OF GRAPHITE COMPONENTS WITH PYROLYTIC CARBON.....	85	(68)
M. V. Gofman and V. G. Zelenkin SELECTION OF SUITABLE BINDERS FOR GRAPHITE COMPO- NENTS.....	87	(70)
B. S. Timchenko and M. E. Mal'tsev CONTROLLING CONDITIONS OF TITANIUM-TETRACHLORIDE REDUCTION.....	91	(72)
I. V. Volk-Karachevskaya, K. Ya. Shapiro, and V. V. Kulakova ACID-EXTRACTION PRO- CESSING OF MOLYBDENUM WASTES.....	95	(74)
V. I. Mikhailova and G. A. Meerson NITRIC ACID TREATMENT OF MOLYBDENUM-CONTAINING SCHEELITE CONCENTRATE.....	98	(77)
P. T. Malenok and P. A. Kovalenko CONTINUOUS, THREE-STAND, FOUR-HIGH FOIL-ROLLING MILL TYPE 250/600x1200.....	101	(79)
S. I. Berman, V. A. Shelamov, and R. I. Shekhirev PRODUCTION OF ALUMINUM AND ALUMI- NUM-ALLOY GRANULES AND GRANULATED SEMIFINISHED COMPONENTS.....	105	(82)
S. B. Pavzner, M. I. Korneev, I. G. Skugarev, A. S. Tugushev, Yu. V. Malashenko, and V. B. Emel'yanov VACUUM EXTRUSION OF HIGH-MELTING METALS.....	110	(86)

TSVETNIE METALLY
Vol 40, No 8, 1967

G. H. Velkogan, K. M. Pogodina, and I. L. Rogel'berg EFFECT OF SULFUR IMPURITY ON NICKEL PLASTICITY.....	114 (88)
Ku. G. Olesov REVIEW OF "METALLURGY AND CHEMISTRY OF TITANIUM",.....	118 (91)
READERS DISCUSS THE WORK OF THE JOURNAL, "TSVETNIE METALLY".....	120 (93)

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
Gintsvetmet.....	State Institute of Non-Ferrous Metals
Gipronikel'.....	State Institute for the Design and Planning of Nickel Establishments
Giprotsvetmet.....	State Institute for the Design and Planning of Non-Ferrous Establishments
Glavtsingvinetszoloto.....	Main Administration of the Lead, Zinc, and Gold Industries.
Gosplan.....	State Planning Committee of the Council of Ministers of the USSR
IL.....	Foreign Literature Publishing House.
Narkomtyazhprom.....	People's Commissariat of Heavy Industry
SNEK.....	Council of the National Economy
TSNIICM.....	Central Scientific Research Institute of Ferrous Metallurgy
TsNIGRI.....	Central Scientific Research Institute of Geological Survey
UFAN.....	Ural Branch of the Academy of Sciences
VNIITsvetmet.....	All-Union Scientific Research Institute of Non-Ferrous Metallurgy

Available From Primary Sources
Vol 8, No 8, 1967

I. S. LYAKHOVICH, I. N. MUSAYELYAN and N. M. CHIRKOV: The lifetime under stress of some linear polyolefins	829
A. Sh. GOIKHMAN and T. P. TANTSYURA: Polymorphism in polycapromide	839
B. I. SAZHIN and V. P. SHUYAYEV: The electrical conductivity of solutions of high molecular weight dielectrics	846
Yu. K. GODOVSKII and Yu. S. LIPATOV: The kinetics of crystallization of linear polyurethanes	859
V. M. GOLEBEV and S. YA. FRENKEL: Molecular weight distribution in cellulose diacetate	869
R. A. VESELOVSKII, S. S. LESHCHENKO and V. L. KARPOV: Some problems of the radiation chemistry of polypropylene	881
M. S. MIRKAMILOVA, N. I. BEKASOVA and V. V. KORSHAK: Polyurethanes based on bis-(ketoximes), bis-(dioximes) and a polymer containing oxime groups	894
V. P. BUDTOV: Molecular theory of ionic mobility and electrical conductivity of polymer chain solutions	900
Yu. M. MALINSKII, I. V. EPELBAUM, N. M. TITOVA and V. A. KARGIN: Structure formation in thin polymer films	913
P. A. YAMPOL'SKII, I. M. BARKALOV, V. I. GOL'DANSKII, V. V. GUSTOV, I. N. DULIN, V. N. ZUBAREV and A. G. KAZAKEVICH: Chemical reactions in polymers caused by shock waves	920
G. M. BARTENEV, A. I. YEL'KIN and V. N. NIKOLAYEV: Frictional properties of polymethylmethacrylate in different physical states	939
N. I. NOSOVA, Kh. SHAKHIDAYATOV and O. P. GOLOVA: Effect of the chemical structure of the crosslink in modified cellulose on the rate of oxidation	948
K. A. GOL'DGAMMER, G. G. PIMENOV, A. I. MARLAKOV, V. V. KORSHAK, S. V. VINOGRADOVA, P. M. VALETSKII and A. N. BASKAKOV: Study using NMR of polyarylates derived from bis-phenols substituted in the ring	953
G. P. MIKHAILOV (dec.), A. M. LOBANOV and D. M. MIRKAMILOV: Dielectric relaxation in plasticized polymethylacrylate	959
V. I. LUKHOVITSKII, V. V. POLIKARPOV, A. M. LEBEDEVA, R. M. LAGUCHEVA and V. L. KARPOV: Polymerization of styrene on "living" molecules in emulsion	969
M. V. NAIMAN (dec.), R. A. PAPKO and V. S. PUDOV: Thermal degradation of polyvinylchloride	975
V. A. KARGIN, I. V. PIS'MENKO and YE. P. CHERNEVA: Study of the mechanism of polyarylate crosslinking	981
T. E. LIPATOVA, L. A. BAKALO, A. L. SIROTINSKAYA and O. P. SYUTKINA: Catalysis of the reaction of diethylene glycol with hexamethylene diisocyanate by tributyltin chloride	1000
I. S. LISHANSKII and V. A. TSITOKHITSEV: The addition of carbalkoxycarbenes to conjugated diene polymers	1008
A. A. PETROV, M. G. GONIKBERG and Dzh. N. ANELI: Study of the behaviour of certain organic polymers under conditions of high pressure and shear stress	1018
V. L. BALAKIRSKAYA, O. A. PEKAREVA and B. P. SHTARKMAN: Effect of the morphology of grains of suspension polyvinylchloride on interaction with a plasticizer	1027
N. N. TVOROGOV, B. R. SMIRNOV, A. I. MALAKHOV, V. P. GRACHEV and A. A. BERLIN: Determination of the rate of photoinitiation in three-dimensional polymerization using the polymerization of dimethacrylates as an example	1034
T. S. KHRAMOVA, YA. G. URMAN, O. A. MOCHALOVA, F. M. MEDVEDEVA and I. YA. SLONIM: Study of copolyesters of ethylene glycol and dicarboxylic acids using the NMR method	1040
V. N. TSVETKOV, G. A. FOMIN, P. N. LAVRENKO, I. N. SHTENNIKOVA, T. V. SHEREMETIEVA and L. I. GODUNOVA: Hydrodynamic and optical behaviour of molecules of poly-N-isobutylmaleimide and its relation to molecular weight	1051
Yu. V. GLAZKOVSKII, A. N. ZAV'YALOV, V. P. LEBEDEV and N. A. OKLADNOV: Structural transitions in polyvinylchloride due to mechanical and thermal action	1059
M. G. CHAUSER, M. I. CHERKASHIN, M. YA. KUSHNEREV, T. I. PROTSUK and A. A. BERLIN: Thermal degradation of ladder polymers of diphenylbutadiene	1066
V. A. KABANOV, V. A. PETROVSKAYA and V. A. KARGIN: Kinetics and mechanism of polymerization of 4-vinyl pyridine on macromolecules of polyacrylic and poly-L-glutamic acids	1077

(Contd)

Available From Pergamon Press

VYSOKOMOLEKULYARNYE SOYEDINENIYA

Vol. 10, No. 4 (series A), 1968

Editor-in-Chief: V. A. KARGIN

Deputy Editor-in-Chief: P. V. KOZLOV

EDITORIAL BOARD

K. A. ANDRIANOV, B. A. DOGADKIN, B. A. DOLGOPLOSK, V. A. KARGIN,
H. S. KOLESNIKOV, A. A. KOROTKOV, V. V. KORSHAK, P. V. KOZLOV,
YU. S. LAZURKIN, S. S. MEDVEDEV, N. V. MIKHAILOV, G. L. SLOINIMSKII,
V. S. SMIRNOV, V. N. TSVETKOV, N. S. YENIKOLOPYAN

Secretary: H. S. KOLESNIKOV

NOTICE TO READERS

Publisher's notice to readers on the supply of an English translation of any Russian article mentioned bibliographically or referred to in this publication.

The Pergamon Press has made arrangements with the Institute of Scientific Information of the U.S.S.R. Academy of Sciences whereby they can obtain rapidly a copy of any article originally published in the open literature of the U.S.S.R.

We are therefore in a position to supply readers with a translation (into English or any other language that may be needed) of any article referred to in this publication.

Readers wishing to avail themselves of this service should address their request to

Pergamon Translation Service, Pergamon Press Ltd.

4/5 Fitzroy Square, London W.1

where their order or enquiries will receive immediate attention.

A. S. SHASHKOV, YU. I. KOTOV, A. A. SERDAN, YE. M. MURASHEVA, F. A. GALIL-OGLY and A. S. NOVIKOV (dec.): Study of orientational effects in vulcanized elastomers by the nuclear magnetic resonance and light-scattering methods	1090
V. N. TSVETKOV, S. YA. MAGARIK, T. KADYROV and G. A. ANDREYEVA: Structure, conformation and rigidity of graft copolymer molecules	1100
T. A. SOKOLOVA, L. A. OVSYANNIKOVA and N. P. ZAPEVALOVA: Poly-N,N-dimethyl hydrazides of methacrylic acid and their polymer-analogue reactions	1113
G. V. NIKONOVICH, T. SAIDALIYEV, YU. T. TASHPULATOV and KH. U. USMANOV: Cellulose modification by bifunctional reagents	1118
Study methods	
Z. F. ZILARIKOVA and Z. YA. BERESTNEVA: Use of a contrasting method in the study of rubbers	1127
B. YA. TETTELBAUM: Twin coordinate potentiometer for the automatic recording of the thermomechanical stress curves during polymer testing	1129
Reviews	
YA. O. BIKERMAN: Adhesives theory	1135
Bibliography	
Z. ROGOVIN: A new international journal of cellulose chemistry and technology	1141

Available From Pergamon Press

ZHURNAL EKSPERIMENTAL'NOY I TEORETICHESKOY FIZIKI
Vol 54, No 6, 1968

	Page	Russian Reference
The Effect of Impurities on the Superconducting Transition Temperature in Thallium	665	54 1617
T. A. Ignat'eva, V. I. Makarov, and N. S. Tereshina		
Annihilation of Polarized Positrons in Ferromagnetic Metals	870	54 1626
V. L. Sedov, L. V. Solomatina, and L. A. Kondrasheva		
The Viscosity of Water and Mercury Under Shock Loading	874	54 1633
V. N. Mineev and R. M. Zaidel'		
Phase Transformation of Water into Ice VII by Shock Compression	879	54 1640
S. B. Kormer, K. B. Yushko, and G. V. Krishkevich		
Plasma Heating by a Fast Magnetosonic Wave of Large Amplitude	882	54 1646
M. P. Vasil'ev, L. I. Grigor'eva, A. V. Longinov, B. I. Smerdov, and V. V. Chechkin		
Procedure for the Investigation of Auto-resonant Energy Transfer in Laser Active Media	889	54 1659
A. A. Kaminskiĭ		
Some Features of the Temperature Dependence of the Specific Heat of a Niobium-titanium Alloy at the Transition to the Superconducting State	897	54 1675
B. Ya. Sukharevskii, A. V. Alapina, and Yu. A. Dushchekin		
Spectroscopic Investigation of Stimulated Emission from Lasers Based on CeF ₃ :Nd ³⁺ Crystals	900	54 1680
M. V. Dmitruk, A. A. Kaminskiĭ, and I. A. Shcherbakov		
Concerning the Determination of the Mean Internal Potential in an Electron Interference Microscope	904	54 1687
I. F. Anashin and I. G. Stoyanova		
Investigation of π -Meson Capture by Hydrogen in Hydrogenous Substances	906	54 1690
Z. V. Krumshtein, V. I. Petrukhin, L. I. Ponomarev, and Yu. D. Prokoshkin		
The Crystal Structure of Manganese between 77 and 300°K	910	54 1697
V. A. Finkel'		
Parameters of the Dip in the Transition Line of an Active Gaseous Medium	912	54 1700
I. L. Bershtein and V. A. Rogachev		
Effect of Dislocations on the Electric Properties of Indium Antimonide	916	54 1708
Yu. A. Osip'yan, Yu. I. Fedyaev, and S. A. Shevchenko		
Magnetic Properties of U ₅ -ThS Alloys	921	54 1715
V. I. Chechernikov, T. M. Shavishvili, V. A. Pletyushkin, V. K. Slovyanskikh, and G. V. Éllert		
Resonant Charge Transfer of Low-energy Carbon and Nitrogen Ions	924	54 1720
V. A. Belyaev, B. G. Brezhnev, and E. M. Erastov		
Propagation Velocity of Extremely High Frequency Magnetoplasma Waves in Bismuth	927	54 1726
V. S. Édel'man		
Surface Impedance of Indium in a Magnetic Field Perpendicular to the Surface of the Metal	934	54 1738
P. P. Krylov		
On the Construction of a Complete Set of Functions in a Space-like Region	944	54 1756
G. I. Kuznetsov		
Contribution to the Theory of Elasticity of Crystals at Low Temperatures	948	54 1764 (Contd)
A. L. Éfros		

Available from the American Institute of Physics
Vol 27, No 6, December, 1968

ЖУРНАЛ ЭКСПЕРИМЕНТАЛЬНОЙ И ТЕОРЕТИЧЕСКОЙ ФИЗИКИ
Vol 54, No 6, 1968

	Page	Russian Reference
Concerning an Experimental Verification of the Equality of the Inertial and Gravitational Masses	952	54 1772
A. M. Linets		
Application of the Smooth-perturbation Method to the Solution of General Equations of Multiple Wave-scattering Theory	954	54 1775
Yu. N. Barabanenkov		
Possibility of a Parafield Representation of Internal Degrees of Freedom, Like Isospin and Strangeness	960	54 1785
A. B. Govorkov		
On the "Hidden" Symmetry of the Hydrogen Atom	967	54 1799
A. M. Perelomov and V. S. Popov		
"Classical" and Quantum S-matrix in the Born-Infeld Two-dimensional Model of the Field	971	54 1806
B. M. Barbashov		
Nonlocalizable Theories and the "Zero-charge" Problem	976	54 1816
B. L. Voronov		
Interpretation of the Isomer (Chemical) Shift of the Mössbauer Absorption Spectra for Sn^{119} and Au^{197} Impurity Nuclei in Metallic Matrices	983	54 1829
V. V. Chekin		
Transformation of Laser Radiation by Stimulated Raman Scattering	986	54 1834
V. A. Alekseev and I. I. Sobel'man		
Energy Spectrum of Fermi Excitations in Ferromagnetic Metals	991	54 1844
P. S. Kondratenko		
Spin Waves and Ferromagnetic Resonance in a Ferrimagnet	995	54 1851
S. A. Pikin		
Temperature Dependence of the EPR Line Width for Conduction Electrons in Metals Containing Nonmagnetic Impurities	1002	54 1865
B. M. Khabibullin		
Magnetic Properties of Thin Metallic Films	1006	54 1873
L. E. Gurevich and A. Ya. Shik		
Excitation of Transverse Zero Sound in Liquid He^3	1010	54 1881
I. A. Fomin		
Stress Tensor for a Plasma in a High Frequency Electromagnetic Field with Account of Collisions	1014	54 1889
V. I. Perel' and Ya. M. Pinskiĭ		
Hydrodynamic Mechanism of Electric Conductivity of Metals in a Magnetic Field .	1019	54 1899
R. P. Gurzhi and S. I. Shevchenko		
Author Index	1023	54, 1907
Subject Index	1038	54, 1918

Available From The American Institute of Physics
Vol 27, No 6, December, 1968

ZHURNAL EKSPERIMENTAL'NOY I TEORETICHESKOY FIZIKI
Vol 55, No 1, July, 1968

	Page	Russian Reference
Experimental Investigation of the Motion of Individual Charged Particles in a Mirror Device	1	55 3
V. G. Ponomarenko, L. Ya. Trainin, V. I. Yurchenko and A. N. Yasnetskii		
The Causes of Magnetic Hysteresis in Nb-Sn Superconducting Alloys	7	55 14
N. N. Potapov		
The Effect of Thermal Lattice Vibrations on the Scattering of Ions by Crystals . . .	13	55 25
V. M. Chacherov		
Temperature Dependence of Energy Transfer Between Rare Earth Ions in Crystals	21	55 39
G. M. Zverev, C. Ya. Kolodnyi, and A. M. Onishchenko		
An Experimental Investigation of the Doppler Effect at the Electron Cyclotron Frequency	23	55 43
B. I. Ivanov		
The Paraprocess in Rare-earth Iron Garnets in the Curie-temperature Region . . .	28	55 53
K. P. Belov, S. A. Nikitin, E. V. Talalaeva, L. A. Chernikova and G. A. Yarkho		
Surface Tension of Normal Hydrogen Solutions in Neon	31	55 59
Yu. P. Blagoi and V. V. Pashkov		
Time Dependence of the Ruby Laser Spectrum	34	55 64
A. M. Ratner, V. S. Solov'ev, and T. I. Tiunova		
Ionization of Alkali Metal Atoms by Slow Electrons	41	55 76
I. P. Zapesochnyi and I. S. Aleksakhin		
Mobility of Positive Ions in He ³ -He ⁴ Solutions	46	55 86
Yu. Z. Kovdrya and B. N. Esel'son		
Anomalous Interference of Electrons on the Edge of Thin Films	50	55 93
I. F. Anaskin, I. G. Stoyanova and E. S. Kuminov		
Investigation, by the Coincidence Method, of Charge State Changes Occurring in the Interaction Between H ⁺ , H ⁰ , and H ⁻ and the Xenon Atom	52	55 97
V. V. Afrosimov, Yu. A. Mamaev, M. N. Panov and N. V. Fedorenko		
Investigation of the Time-dependent Characteristics of a Q-switched Ruby Laser Driven by an External Signal	59	55 111
A. N. Bondarenko, G. V. Krivoshchekov, V. A. Smirnov and K. G. Folin		
Scattering of Electromagnetic Waves by Turbulent Plasma Fluctuations	61	55 115
Yu. G. Kalinin, D. N. Lin, V. D. Ryutov and V. A. Skoryupin		
Generation Kinetics, Radiation Spectrum, and Directivity of a Ruby Laser with a Spatially Homogeneous Inverted Population	65	55 122
K. G. Folin and V. V. Antsiferov		
Properties of a Laser with an Unstable Resonator	69	55 130
Yu. A. Anan'ev, N. A. Sventsitskaya, and V. E. Sherstobitov		
Two-photon Excitation of Luminescence in Ruby Crystals	75	55 141
G. M. Zverev, T. N. Mikhaïlova, and V. A. Pashkov		
Anisotropy in the Two-photon Absorption Spectrum in CdS	77	55 144
M. S. Bepalov, L. A. Kulevskii, V. P. Makarov, M. A. Prokhorov, and A. A. Tikhonov		
Antiferromagnetism of Uranium and Thorium Phosphides	81	55 151
V. I. Chechernikov, T. M. Shavishvili, V. A. Pletyushkin, and V. K. Slovyanskikh		
Magnetic Viscosity in Rare-earth Ferromagnets	84	55 157
K. P. Belov, S. A. Nikitin, and K. G. Gurtovoi		
Isomer Shifts of the Mössbauer γ Line in Trivalent Antimony Halides	86	55 160
V. Kothekar, B. Z. Iofa, S. I. Semenov, and V. S. Shpinel'		

(Contd)

	Page	Russian Reference
Investigation of the Crystal Structure of Antimony at High Pressures	88	55 164
T. N. Kolobyanina, S. S. Kabalkina, L. F. Vereshchagin, and L. V. Fedina		
Diffraction Production of Particles by 20-23 GeV Protons	91	55 170
G. B. Zhdanov, M. I. Tret'yakova and M. M. Chearnyavskii		
Problems of the Dynamical Apparatus of Quantum Field Theory in the Axiomatic Approach	95	55 179
B. V. Medvedev, M. K. Polivanov and A. D. Sukhanov		
Effect of Concentration Non-uniformity on the Properties of Superconductors with Paramagnetic Impurities	102	55 193
I. O. Kulik and O. Yu. Itskovich		
Spin-system Spectrum and High-frequency Properties of Ferrromagnetic Monocrystals Containing Plane Defects	109	55 208
B. N. Filippov		
Transport and Relaxation Phenomena in Polyatomic Gas Mixtures	116	55 221
M. Ya. Alievskii and V. M. Zhdanov		
A Singularity-free Empty Universe	122	55 233
C. W. Misner and A. H. Taub		
Anomalies in Dielectric Properties in Phase Transitions	134	55 256
A. P. Levanyuk and D. G. Sannikov		
Interaction of High-frequency and Low-frequency Waves in Nonlinear Dispersive Media	140	55 266
A. S. Bakai		
Recombination of Hydrogen in the Hot Model of the Universe	146	55 278
Ya. B. Zel'dovich, V. G. Kurt and R. A. Syunyaev		
Dynamic Symmetry of the Relativistic Symmetric Coulomb Problem in the Case of the Continuous Spectrum	151	55 287
I. A. Malkin and V. I. Man'ko		
On the Role of Intermediate States in the Excitation of Atoms by Electron Impact L. A. Vainshtein and L. P. Presnyakov	156	55 297
Dynamics of Processes in Media with Inhomogeneous Broadening of the Line of the Working Transition	160	55 304
E. I. Yakubovich		
Some Remarks Concerning the Interference of Independent Light Beams	165	55 312
V. G. Baryshevskii and M. I. Podgoretskii		
Investigation of the Stability of an Isotropic Universe with a Cosmological Constant	168	55 317
A. V. Byalko		
Josephson Effect in Superconductors Separated by a Normal Metal	171	55 323
L. G. Aslamazov, A. I. Larkin and Yu. N. Ovchinnikov		
Multiple Stimulated Scattering of Electrons by a Powerful Laser Field	177	55 336
P. Varga		
Superconductivity and Quasi-one-dimensional (Thread-Like) Structures	178	55 338
I. E. Dzyaloshinskii and E. I. Kats		
Effect of Spatial Dispersion of Optical Phonons on Interband Magneto optic Absorption in Semiconductors	183	55 349
L. I. Korovin and S. T. Pavlov		
Theory of Coil-ball Transition in Long Molecules	187	55 357
A. A. Vedenov and A. M. Dykhne		
Scattering of Electrons by Diatomic Molecules in the Approximation of Two Small-radius Wells	190	55 363
R. Subramanyan		
Thermodynamic Equilibrium of a System of Gas and Crystal with Isotropic Defects	193	55 369
G. Benedec, R. F. Wallis, I. P. Ipatova, A. A. Maradudin, and W. C. Overton		
Occurrence of Local Bound States in a Superconductor with Magnetic Impurity . . .	198	55 380
A. A. Abrikosov		

ЖУРНАЛ ЭКСПЕРИМЕНТАЛЬНОЙ ТЕОРЕТИЧЕСКОЙ ФИЗИКИ ЖЕТП ПИСЬМА РЕДАКЦИИ
Vol 9, No 1, 5 January 1969

	Page	
	Engl.	Russ.
Kinetics of Free Generation Spectra of a Solid-state Laser in the Traveling-wave Regime with Mode Discrimination Excluded.	1	3
Y. I. Malyshev, A. S. Markin, A. A. Sychev		
Radiative Perturbation of Potassium Terms in a Ruby-laser Radiation Field. .	3	7
Yu. M. Kirin, O. P. Kovalev, S. G. Rautian, R. I. Sokolovskii		
Formation of Powerful Nanosecond Pulses with the Aid of Mandel'shtam- Brillouin Scattering and Stimulated Raman Scattering.	6	10
A. Z. Grasyuk, V. V. Rogul'skii, F. S. Faizulov		
Ultraviolet Lasers Using Organic Scintillator Molecules.	5	15
G. A. Abakumov, A. P. Simonov, V. V. Fadeev, L. A. Kharitonov, R. V. Khokhlov		
Microwave-absorption Fluctuations at Phase Transitions in Barium Titanate.	11	19
V. V. Bogatko, G. N. Guro, I. I. Ivanchik, N. F. Kovtyuk		
Focusing of Ion Beams by a Plasma Lens.	14	24
V. V. Zhukov, A. I. Morozov, G. Ya. Shchepkin		
Superconductivity of Alloys of the System Nb ₃ Al-Nb ₃ Ge.	16	28
N. E. Alekseevskii, N. V. Ageev, N. N. Mikhailov, V. F. Shamrai		
Concerning the Determination of the Mechanism of Electric Breakdown in Semiconductors.	19	33
A. I. Mel'nikov		
Donor Action of Dislocations in InSb.	21	37
Yu. A. Osip'yan and Yu. I. Fedyaev		
Observation of Ultracold Neutrons.	23	40
V. I. Lushchikov, Yu. N. Pokotilovskii, A. V. Strelkov, F. L. Shapiro		
Nuclear Spin-lattice Relaxation in Thulium Ethylsulfate.	26	46
S. A. Al'tshuler, F. L. Aukhudeev, M. A. Teplov		
Carrier Dragging in a Solid Under the Influence of Laser Emission.	28	49
V. I. Vladimirov, S. L. Pyshkin, and N. A. Ferdman		
Influence of an Alternating Magnetic Field on Current Flowing Through a Superconductor of the Second Kind.	31	53
V. V. Sychev, V. B. Zenkevich, V. V. Andrianov, V. P. Baev		
Bending of Trajectories of Asymmetrical Light Beams in Nonlinear Media. . .	33	58
A. E. Kaplan		
Electroacoustic Surface Waves in Solids.	37	63
Yu. V. Gulyaev		
Relaxation of Paramagnetic-impurity Nuclei in Metals.	39	66
G. E. Gurgenishvili, A. A. Nersesyan, G. A. Kharadze		
Field Statistics in Parametric Luminescence.	40	69
B. Ya. Zel'dovich, D. N. Klyshko		
Magnetism of Conduction Electrons in the Presence of an Electric Field. . .	43	73
P. M. Mednis		
Verification of the Consequences of the $\Delta I = 1/2$ Rule in the $K + 3\pi$ Decay.	45	76
A. A. Belavin		
Photoconductivity of Semiconductors at Large Light Intensity.	46	79
V. F. Elesin		

Available From The American Institute of Physics

ЖУРНАЛ ЭКСПЕРИМЕНТАЛЬНОЙ ТЕОРЕТИЧЕСКОЙ ФИЗИКИ И ЕЕ ПИСЬМА РЕДАКЦИИ
 Vol 9, No 2, 20 January, 1969

	Page	
	Engl.	Russ.
Double Cr^{53} - Al^{27} Acousto-magnetic Resonance in Ruby.	49	85
Yu. V. Vladimirtsev, V. A. Golenishchev-Kutuzov, U. Kh. Kopvillem, N. A. Shamukov		
Double Ferromagnetic Resonance.	51	89
I. A. Deryugin, V. V. Zaporozhets, M. G. Lysenko		
Concerning the Anisotropy of the Probability of the Mossbauer Effect on Sn^{119} Nuclei in the Lattice of White Tin.	53	92
N. E. Alekseevskii, A. P. Kir'yanov		
Anomalous Hall Coefficient in the Region of the Para-process.	55	96
E. P. Svirina, E. A. Novikova, and E. N. Polivanova		
Single-frequency Ruby Laser with Active Q-switch.	57	100
A. N. Bondarenko, G. V. Krivoshekov, V. A. Smirnov		
Role of Field Intensity and Structure of the Atom in the Process of Multiphoton Ionization.	59	103
G. A. Delone, N. B. Delone, N. P. Donskaya, K. B. Petrosyan		
Development of Self-focusing Filaments in Solid Dielectrics.	61	108
G. M. Zverev, E. K. Maldutis, V. A. Pashkov		
Quadratic Magneto-optic Effects in Ferro- and Antiferromagnets.	64	112
R. V. Pisarev, I. G. Sinii, G. A. Smolenskii		
Investigation of Quadrupole Effects of Second Order in the Intermetallic V_3Si	67	117
B. N. Tretyakov, V. B. Kuritsyn		
Observation of Non-extremal Sections of the Fermi Surface in Size-quantized Bismuth Films.	68	120
E. P. Fesenko and V. N. Lutski		
Nuclear Diffraction of Resonant γ Radiation by an Antiferromagnetic Crystal.	70	123
G. V. Smirnov, V. V. Sklyarevskii, R. A. Voskanyan, A. N. Artem'ev		
Photofission of Even-even Nuclei and Structure of the Fission Barrier.	73	128
S. P. Kapitza, N. S. Rabotnov, G. N. Smirenkin, A. S. Soldatov, L. N. Usachev, Yu. M. Tsipenyuk		
Possible Unstable Oscillations of a Neutron Star.	76	133
Yu. V. Vandakurov		
Radiophysical Methods of Measuring the Rest Mass of the Photon.	79	137
M. E. Gertsenshtein and L. G. Solov'ev		
Calculation of the Parameters of Low-energy πN Scattering.	82	142
G. M. Radutskii, A. N. Tabachenko		
Superconductivity near a Paramagnetic Impurity.	85	146
A. I. Rusinov		
Josephson Effect in Superconducting Point Contacts.	87	150
L. G. Aslamazov, A. I. Larkin		
Interference of Conversion and Photoeffect Processes upon Absorption of Mossbauer Radiation.	91	155
Electromagnetic Current and Partial Conservation of the Tensor Current (PCTC)	94	150
G. S. Iroshnikov		
Space-time Picture of γ -Quantum-Scattering by Nucleons at High Energies.	97	163
B. L. Ioffe		

Available From The American Institute of Physics

	Page	
	Engl.	Russ.
Pinch Effect in Conductors in the Case of Bimolecular Recombination I. I. Boiko and V. V. Vladimirov	101	173
Screening of Shock-wave Radiation by a Gas not in Thermodynamic Equilibrium ahead of the Front. E. G. Popov	102	176
Differential Resistance of Superconductors of the Second Kind. . . I. Ya. Fogel', V. G. Volotskaya, L. N. Korovin, I. M. Dmitrenko.	105	180
Anisotropy of Polarized-light Absorption Produced in GaAs and CdTe Crystals by a Strong Electric Field. V. S. Bagaev, Yu. N. Berozashvili, L. V. Keldysh	108	185
Experimental Observation of the Change of the Sign of the S-d Interaction. N. V. Volkenshtein, L. A. Ugodnikova, Yu. N. Tsiovkin	110	189
Bending of Surface and Self-focusing of a Laser Beam in a Linear Medium. A. V. Kats and V. M. Kontorovich	112	192
Angular Anisotropy of Am^{241} Neutron-fission Fragments. D. L. Shpak and G. N. Smirenkin	114	196
A Pulsar Model. V. V. Vladimirov	116	199
Possible Type of Instability in Monopolar Injection. V. B. Sandomirskii and A. G. Zhdan	116	201
Quantum Kinetic Equation for Electrons in a High-frequency Field. . V. I. Mel'nikov	120	204

Available From The American Institute of Physics

	Page	Engl. Russ.
Neodymium Laser with Regulated Pulse Duration.	123	209
V. A. Aleshkevich, V. V. Arsen'ev, V. S. Dneprovskii, D. N. Klyshko, L. A. Sysoev		
Emission Produced by Excited Helium Molecules when Solid Targets are Bombarded by Means of Fast Helium Ions.	124	212
V. V. Gritsyna, T. S. Kiyan, A. G. Koval', Ya. M. Fogel'		
Three-level Gas Laser.	127	216
I. M. Beterov and V. P. Chebotaev		
Two-photon Absorption in Germanium.	130	221
B. V. Zubov, L. A. Kulevskii, V. P. Makarov, T. M. Murina, A. N. Prokhorov		
Simultaneous Generation of Two Waves of Double Frequency in a Nonlinear Crystal.	132	225
M. P. Golovei and G. I. Kosourov		
Anomalous Magnetic Senftleben Effect.	134	229
V. D. Borman, B. I. Nikolaev, V. I. Troyan		
Band Interaction and Transition from the Metallic to the Semiconducting State in a Magnetic Field.	136	232
H. B. Brandt, A. E. Svistova, Yu. G. Kashirskii		
Observation of Interference of Conversion and of the Photoeffect upon Absorption of 26-keV Gamma Quanta by Dy_2O_3	139	237
O. V. Borobchenko, I. I. Lukashevich, V. V. Sklyarevskii, H. I. Filippov		
Nature of the Amplification of the NMR Signal of Fe^{57} in Hematite Crystals.	142	242
A. V. Zalesskii, I. S. Zheludev, R. A. Voskanyan		
Influence of Magnetic Surface Levels on the Impedance of Potassium at Radio Frequencies.	144	246
V. F. Gantmakher, L. A. Fal'kovskii, V. S. Tsoi		
Generation Spectrum of a Chemical Laser Using a Mixture of H_2 and Cl_2	147	250
N. G. Basov, V. V. Gromov, E. L. Koshelev, E. P. Markin, A. N. Oraevskii		
Surface Effects in a Strong Magnetic Field.	147	252
M. Ya. Azbel' and S. Ya. Rakhmanov		
Sound Absorption in Superfluid He near the λ Point.	149	255
V. L. Pokrovskii and I. M. Khalatnikov		

Available From The American Institute of Physics

JOURNAL OF GENERAL CHEMISTRY

of the USSR

A translation of *Zhurnal Obshchei Khimii*

Volume 33, Number 8

August 1968

CONTENTS

	Engl	Russ
Physicochemical Investigation of Systems Formed by Phenol and Its Derivatives with Urea - I. M. Bokhovkin, Yu. I. Bokhovkina, V. F. Chesnokov, and E. O. Vitman	1623	1665
Polarographic Behavior of Dialkylchlorotins in Water-Methanol Solutions - Vyach. N. Florov and Yu. M. Tyurin	1627	1669
Polarographic Study of 2-Pyrazoline Derivatives - N. P. Shimanskaya, E. G. Buryakovskaya, V. D. Bezuglyi, and S. V. Tsukerman	1634	1676
Dissociation Constant of 2-Acetylpyridine - M. S. Novakovskii and V. S. Provctar'	1637	1679
Aminal Formation. III. Some New Aminals - A. P. Terent'ev, E. G. Rukhadze, I. G. P'ina, and N. N. Pavlova	1640	1683
New Oxytocin Analogs - 7-Glycine-oxytocin and 7-D-Leucine-oxytocin - Zh. D. Bepalova, V. F. Martynov, and M. I. Titov	1642	1694
Synthesis and Investigation of Compounds with Potential Biological Activity. III. Synthesis of Some Halogen Derivatives of Glutamic Acid - I. V. Alekseeva, N. L. Burde, and B. N. Lundin	1645	1687
Synthesis of Peptides by the Amino-Acyl Inclusion Method - T. R. Telesnina, V. K. Antonov, and M. M. Shemyakin	1649	1691
Substances Allied to Mevalonic Acid. III. 3-Hydroxy-3-methyl-2-phenylvaleric Acid - L. A. Petrova, N. N. Bel'tsova, A. L. Remizov, and L. M. Vasil'eva	1654	1697
Coenzyme A. VI. Synthesis of Phosphoric Esters of (+)-S-Benzoylpantetheine - V. M. Kopelavich, E. S. Zhdanovich, and N. A. Preobrazhenskii	1658	1700
Nucleotides, Coenzymes, Phosphoric Esters. XX. Formation of Benzoquinonoid Bisribo- flavine 5'-Diphosphate - V. M. Berezovskii, R. V. Adanyaeva, and N. D. Grigor'eva	1662	1704
Hexahydropyrrolizine Alkaloids. XI. Chromatographic Study of threo and erythro Isomers of Some α, β -Dihydroxy Acids - V. N. Kulakov and A. M. Likhoshesterov	1672	1715
Hexahydropyrrolizine Alkaloids. XII. Total Synthesis of the Alkaloid Lindelofine - V. N. Kulakov, A. M. Likhoshesterov, and N. K. Kochetkov	1674	1718
Fluorination of Diethyl Tetrafluoro-1,2-diazetidene-1,2-dicarboxylate with Cobalt Trifluo- ride - A. S. Filatov, S. P. Makarov, and A. Ya. Yakubovich	1677	1721
Some Reactions of Dicyclohexylcadmium - G. A. Razuvaev, V. N. Pankratova, and A. M. Bobrova	1680	1723
Effect of Substituents on the Reactions of Phthalides with Phosphorus Pentachloride, Isom- erization and Fluorination of 1,1,3,3-Tetrachlorophthalans - R. V. Belinskaya and L. M. Yagupol'skii	1683	1726
Fluorine-Containing Cyanine Dyes. XVI. Fluoromethine Thiacyanine Dyes with Substit- uents in the 6-Position - L. M. Yagupol'skii, B. E. Gruz, and L. I. Katerinenko	1688	1732
Fluorine-Containing Cyanine Dyes. XVII. Perfluoroalkylation of 4-Picoline, and Cyanine Dyes from 2- and 3-(Heptafluoropropyl)-4-picolines - L. M. Yagupol'skii, A. G. Galushko, and V. I. Troitskaya	1692	1736

(Contd.)

Available From Consultants Bureau

JOURNAL OF GENERAL CHEMISTRY of the USSR

A translation of *Zhurnal Obshchei Khimii*

Volume 38, Number 8

August 1968

CONTENTS

	Engl./Russ
Physicochemical Investigation of Systems Formed by Phenol and Its Derivatives with Urea - I. M. Bokhovkin, Yu. I. Bokhovkina, V. F. Chesnokov, and E. O. Vitman	1623 1665
Polarographic Behavior of Dialkylchlorotins in Water-Methanol Solutions - Vyach. N. Flerov and Yu. M. Tyurin	1627 1669
Polarographic Study of 2-Pyrazoline Derivatives - N. P. Shimanskaya, E. G. Buryakovskaya, V. D. Bezuglyi, and S. V. Tsukerman	1634 1676
Dissociation Constant of 2-Acetylpyridine - M. S. Novakovskii and V. S. Provotar'	1637 1679
Aminal Formation. III. Some New Aminals - A. P. Terent'ev, E. G. Rukhadze, I. G. Pl'ina, and N. N. Pavlova	1640 1683
New Oxytocin Analogs - 7-Glycine-oxytocin and 7-D-Leucine-oxytocin - Zh. D. Bespalova, V. F. Martynov, and M. I. Titov	1642 1684
Synthesis and Investigation of Compounds with Potential Biological Activity. III. Synthesis of Some Halogen Derivatives of Glutamic Acid - L. V. Alekseeva, N. L. Burde, and B. N. Lundin	1645 1687
Synthesis of Peptides by the Amino-Acyl Inclusion Method - T. R. Telesnina, V. K. Antonov, and M. M. Shemyakin	1649 1691
Substances Allied to Mevalonic Acid. III. 3-Hydroxy-3-methyl-2-phenylvaleric Acid - L. A. Petrova, N. N. Bel'tsova, A. L. Remizov, and L. M. Vasil'eva	1654 1697
Coenzyme A. VI. Synthesis of Phosphoric Esters of (+)-S-Benzoylpantetheine - V. M. Kopelevich, E. S. Zhdanovich, and N. A. Preobrazhenskii	1656 1700
Nucleotides, Coenzymes, Phosphoric Esters. XX. Formation of Benzoquinonoid Bisribo- flavine 5'-Diphosphate - V. M. Berezovskii, R. V. Adanyaeva, and N. D. Grigor'eva	1662 1704
Hexahydropyrrolizine Alkaloids. XI. Chromatographic Study of threo and erythro Isomers of Some α, β -Dihydroxy Acids - V. N. Kulakov and A. M. Likhoshesterov	1672 1715
Hexahydropyrrolizine Alkaloids. XII. Total Synthesis of the Alkaloid Lindelofine - V. N. Kulakov, A. M. Likhoshesterov, and N. K. Kochetkov	1674 1718
Fluorination of Diethyl Tetrafluoro-1,2-diazetidene-1,2-dicarboxylate with Cobalt Trifluo- ride - A. S. Filatov, S. P. Makarov, and A. Ya. Yakubovich	1677 1721
Some Reactions of Dicyclohexylcadmium - G. A. Razuvaev, V. N. Pankratova, and A. M. Bobrova	1680 1723
Effect of Substituents on the Reactions of Phthalides with Phosphorus Pentachloride, Isom- erization and Fluorination of 1,1,3,3-Tetrachlorophthalans - R. V. Belinskaya and L. M. Yagupol'skii	1683 1726
Fluorine-Containing Cyanine Dyes. XVI. Fluoromethine Thiaryanine Dyes with Substit- uents in the 6-Position - L. M. Yagupol'skii, B. E. Gruz, and L. I. Katerinenko	1688 1732
Fluorine-Containing Cyanine Dyes. XVII. Perfluoroalkylation of 4-Picoline, and Cyanine Dyes from 2- and 3-(Heptafluoropropyl)-4-picolines - L. M. Yagupol'skii, A. G. Galushko, and V. I. Troitskaya	1692 1736

(Contd)

Available From Consultants Bureau

Halogenation of Fluorine-Containing Olefins - Yu. A. Fialkov, A. M. Aleksandrov, and L. M. Yagupol'skii	1697	1741
Organic Insectofungicides. Kinetics of the Reactions of Phosphoro-Thioic and -Dithioic Esters with Tertiary Aliphatic Phosphines - N. N. Mel'nikov, A. F. Vasil'ev, B. A. Khaskin, N. N. Tuturina, and T. M. Ivanova	1701	1745
Synthesis and Herbicidal Activity of Some Aryl p-Methyl-, p-(Dichloromethyl)-, and p-(Trichloromethyl)-phosphonamides - A. F. Grapov, N. V. Lebedeva and N. N. Mel'nikov	1706	1751
O-Alkyl and O-Aryl Phosphoramidochloridothioates - Ya. A. Mandel'baum, G. L. Abramova, R. S. Solfer, and N. N. Mel'nikov	1709	1754
Potassium O-Alkyl Phosphoramidothioates - Ya. A. Mandel'baum, N. N. Mel'nikov, and A. I. Itskova	1712	1756
p-Phenylene Diphosphorodiamidates with Alkyl, Aryl, and Ethylene Group on the Nitrogens - L. D. Protchenko and N. Ya. Skul'skaya	1714	1758
Phosphorotriethioates. II. Reactions of Dipotassium O-Alkyl Phosphorotriethioates with Phenols. Mixed Phosphorodithioic Esters. Phosphinothiyl Disulfides - B. P. Kotovich and N. I. Zemlyanskii	1718	1763
Reaction of Dimethyl Hydrogen Phosphite with Phenyl Isocyanate in Absence of Catalysts - F. K. Samigullin, I. M. Kafengauz, E. L. Gelter, and A. P. Kafengauz	1722	1766
Mixed Dialkyl (Phenylthiocarbonyloxy)-methylphosphonates - V. V. Alekseev and N. P. Pokryshchenko	1725	1770
Radiation-Induced Synthesis of Organophosphorus Compounds. I. Products of Radiation-Induced Synthesis from Mixtures of Hydrocarbons and Phosphorus Trichloride É. I. Babkina and I. V. Vereshchinskii	1727	1772
Oxidation of N,N-Diethyl-P,P-diphenylphosphinous Amide in Decane Solution - A. E. Myshkin and V. P. Evdakov	1731	1776
Derivatives of Isothiocyanates of Phosphorus Acids - G. I. Derkach and N. I. Liptuga	1734	1779
Derivatives of Alkylphosphonic and Dialkylphosphinic Isocyanates - G. I. Derkach and E. I. Silyusarenko	1739	1784
Reactions of Phenacylphosphonic Esters with Aldehydes - A. N. Pudovik, V. I. Nikitina, A. M. Shakirova, and N. A. Danilov	1742	1788
Organophosphorus Compounds Containing Acetylenic and Allenic Groups. IV. Synthesis and Thermal Rearrangement of Cyclic o-Phenylene-2-propynyl Phosphite - Yu. A. Kondrat'ev, V. V. Tarasov, A. S. Vasil'ev N. M. Ivakina, and S. Z. Ivin	1745	1791
Reactions of Sodium Alkyl Phenylphosphonites with Some Dihalogen Compounds. I. Synthesis of Alkylenebis(phenylphosphinic) Esters - V. S. Abramov, L. A. Tarasov, and F. G. Fatykhova	1748	1794
Rearrangement of Arsenic Sulfides. II - Yu. F. Gatilov and M. G. Kralichkina	1752	1798
Halogenation of Heteroorganic Compounds Containing A Hetero Element-Hetero Element Bond - N. S. Vyazankin, L. P. Sanina, G. S. Kalina, and M. N. Bochkarev	1754	1800
Synthesis of Some Diheteroorganic Compounds Containing Si-Hg, Ge-Hg, Si-Li, and Ge-Li Bonds and Investigation of Their Reactivities - N. S. Vyazankin, E. N. Gladyshev, S. P. Korneva, G. A. Razuvev, and E. A. Arkhangel'skaya	1757	1803
Rotatory Dispersion of Indolecarboxamides - A. N. Kost, L. G. Yudin, G. V. Smirnova, and A. P. Terent'ev	1762	1809
Mass Spectra of Polyfluorinated Aromatic and Heterocyclic Compounds Containing a Carbonyl Group - M. I. Gorfinkel', V. S. Kobrin, and V. A. Koptug	1766	1815
1,3-Dipolar Addition to Unsaturated Compounds. XXII. Addition of Some 1,3-Dipolar Systems to Enynic Sila Hydrocarbons - I. G. Kolokol'tseva, V. N. Chistokletov, M. D. Stadnichuk, and A. A. Petrov	1771	1820
Preparation and Properties of Some Organosilicon Acetylenic α -Epoxides. II - M. S. Malinovskii, A. G. Yudasina, and N. G. Krivosheeva	1779	1829

(Contd)

Available From Consultants Bureau

Transmission of Electronic Effects of Silicon in p-Substituted Dimethylphenylsilanes - V. A. Drozdov, A. P. Kreshkov, and V. N. Kayazev	1781	1831
Synthesis and Reactions of Silicon-Containing Cyclopentadiene Derivatives. III. Dimerization of Chlorocyclopentadienylsilanes - I. M. Shologon, M. K. Romantsevich, and G. A. Kovalenko	1785	1836
Nitrogen-Containing Organosilicon Compounds. X. Reactions of (Diethylamino)methylsilanes with Mono-, Di-, and Tri-Ethanolamines - E. Ya. Lukevits, L. I. Libert, and M. G. Voronkov	1787	1838
Reactions of bis(Triorganosilyl), and Dialkyl Triorganosilyl Phosphites with Acyl Chlorides - N. F. Orlov and B. L. Kaufman	1791	1842
Complex Compounds of Metals with Certain Nitrogen-Containing Ligands. XIII. Cadmium, Zinc, and Lead Complexes of o-(Benzylideneamino)phenols - A. D. Garnovskii, L. V. Orlova, O. A. Osipov, V. I. Minkin, and I. I. Kukushkina	1794	1845
Complex Compounds of Metals with Certain Nitrogen-Containing Ligands. XIV. Complexes of o-(Benzylideneamino)phenols with Group IV Element Tetrachlorides - L. V. Orlova, A. D. Garnovskii, O. A. Osipov, and I. I. Kukushkina	1799	1850
Complex Compounds of Metals with Certain Nitrogen-Containing Ligands. XV. Complexes of Group IV Metal Tetrachlorides with 2-(Benzylideneamino)- and 2-(Furfurylideneamino)-1-ethyl-benzimidazoles and -1H-Naphth[1, 2-d]imidazoles - A. D. Garnovskii, V. T. Panyushkin, L. I. Kuznetsova, O. A. Osipov, V. I. Minkin, and V. I. Martynov	1806	1858
Effect of Solvents on the Complex Formation of Aniline with Dinitrobenzenes - E. G. Polle, L. M. Sitnikova, and B. V. Tronov	1811	1864
N-Acyl-P-methylphosphonimidic Dichlorides and Their Derivatives - V. A. Shokol, V. F. Gamaleya, and G. I. Derkach	1815	1867
Aromatic Fluorine Derivatives. XXXIV. Synthesis and UV and IR Spectra of Polyfluorinated Hydroxy Derivatives of Naphthalene - N. E. Akhmetova, A. K. Petrov, V. D. Shteingarts, and G. G. Yakobson	1821	1874
4-Aryl-3,5-dioxo-1-phosphabicyclo[2.2.1]heptanes - E. S. Kozlov, A. I. Sedlov, and A. V. Kirsanov	1828	1881
Reactions of Polyhaloanthraquinones with Nucleophilic Reagents. III. Effect of the Association of Amines through Hydrogen Bonds on the Orientation of the Entering Amino Group in 1,2,3,4-Tetrafluoroanthraquinone - E. P. Fokin and V. A. Loskutov	1831	1884
Aromatic Heterocycles. X. Products of the One-Electron Reduction of 2,1,3-Benzoseleno-, -Benzothia-, and -Benzoxa-Diazoles - V. Sh. Tsveniasvili, Z. V. Todres, and S. I. Zhdanov	1838	1888
Aromatic Heterocycles. XI. Mechanism of the Electrochemical Reduction of 2,1,3-Benzoseleno-, -Benzothia-, and -Benzoxa-Diazoles - V. Sh. Tsveniasvili, Z. V. Todres, and S. I. Zhdanov	1840	1894
Carbonyl Derivatives of the Fluorene Series. VI. 7-Fluoro- and 7-Fluoro-9-oxo-fluorene-2-glyoxylaldehydes - G. Ya. Uretskaya, M. S. Shinkarevskaya, N. F. Terekhina, and M. Ya. Kraft	1844	1898
LETTERS TO THE EDITOR		
Synthesis of Functionally Substituted Hydride Germanes with the Aid of Organotin Compounds - Yu. I. Baukov, G. S. Burlachenko, I. Yu. Belavin, and I. F. Lutsenko	1846	1899
Reactions of Trihalogermanes with Formaldehyde and with Ethylene Oxide. Synthesis of (Trichlorogermyl)methanol and 2-(Trichlorogermyl)ethanol - V. F. Mironov, E. M. Berliner, and T. K. Gar	1847	1900
Addition of Triphenylsilyllithium and Methylphenylsilyllithium to Enynic Hydrocarbons - L. M. Zubritskii and Kh. V. Bal'yan	1849	1901
Dehalogenation of Aliphatic α -Halo Nitro Compounds - A. L. Fridman, Yu. N. Senichev, F. A. Gabitov, and E. A. Ponomarev	1850	1902

(Contd.)

Available From Consultants Bureau

Reactions of Tetrafluorohydrazine with p-Dinitrosobenzene and p-Benzoquinone Dioxime - A. V. Fokin, Yu. N. Studnev, and M. A. Ponsov	1851	1903
Structure of Anils of 10-Hydroxy-9-phenanthrenecarboxaldehyde and 2-Hydroxy-1-an- thraldehyde - O. A. Osipov, V. I. Minkin, and V. N. Sheinker	1852	1903
Rearrangement of 2-Propynyl Esters of Tervalent Phosphorus Acids Containing Trifluoro- methyl Groups - G. V. Ignat'eva, Ya. S. Arbisman, Yu. A. Kondrat'ev, R. K. Bal'chenko, and S. Z. Ivin	1853	1904
Synthesis of Cyclic Alkylene Acetals of Phosphinylacetaldehydes - P. A. Gurevich, N. I. Shelepova, and A. I. Razumov'	1854	1905
Structure of the 1:1 2,3-Butanedione Adduct of N,N-Diethyl-P-methylphosphonofluoridous Amide - G. I. Drozd, S. Z. Ivin, and V. V. Sheluchenko	1855	1906
Reactions of Alkyl Phosphoredifluoridites with Halogens - G. I. Drozd and S. Z. Ivin	1856	1907
Thermal Rearrangement of O,O-Dialkyl S-(2-Propynyl) Phosphorothioites - A. N. Pudovik, and É. M. Faizullin	1857	1908
New Data on the Reactions of Amides of Tervalent Phosphorus Acids with Carboxylic Acids - É. É. Nifant'ev, I. V. Fursenko, and A. M. Sokurenko	1858	1909

The Russian press date (podpisano k pechati) of this issue was 7/24/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

JOURNAL OF GENERAL CHEMISTRY of the USSR

A translation of *Zhurnal Obshchei Khimii*

Volume 38, Number 9

September, 1968

CONTENTS

	Engl./Rus.
Dependence of the Entropy of Evaporation of the Atomic Number of the Element — L. I. Ivanova	1859 1913
Periodic Dependence of the Thermodynamic Functions of the Elements of the Atomic Number — L. I. Ivanova	1362 1916
Stabilities of Gallium Complexes in Aqueous Solutions — É. A. Zekharova and V. N. Kumok ..	1868 1922
Structure and Properties of Complexes of Aluminum Bromide with Ethers, Sulfides, and Amines — I. P. Romm and E. N. Gur'yanova	1872 1927
Dipole Moments and Heats of Formation of a Series of Complexes of Boron Trifluoride with Amines and Ethers — I. P. Romm, T. G. Sevast'yanova, E. N. Gur'yanova, I. D. Koili, and R. A. Rodionov	1881 1938
Polarography of Organic Peroxides. II. Peresters of Aromatic Acids — Z. S. Frolova, M. M. Buzlanova, O. N. Romantsova, and V. L. Antonovskii	1887 1944
Polarography of Organic Peroxides. III. tert-Butyl Peresters of Aliphatic Acids — V. L. Antonovskii, Z. S. Frolova, E. V. Skorobogatova, O. N. Romantsova, and M. M. Buzlanova	1891 1948
Condensation of 2,3:4,5-Di-O-cyclohexylidene- α -L-arabinose with Group I Phosphoranes — Yu. A. Zhdanov and V. G. Alekseeva	1893 1951
The Synthesis of 4-Acetamido-3,4-dideoxy-7,8-O-isopropylidene-D-glucosylulosonic Acid Lactone, a Structural Analog of N-Acetylneuraminic Acid — M. N. Mirzayanova, L. P. Davydova, and G. I. Samokhvalov	1896 1954
The Interaction of the Chloride and Bromide of Trivalent Thallium with Glycine. II — A. V. Grineva and N. T. Presnyak	1899 1957
Complex Formation of Cerium with Tryptophan, Histidine, and Phenylalanine — E. M. Rogozina, D. K. Popov, and T. M. Ponikarova	1901 1959
Basicity of α -Acetylenic Amines and Induction Constants of Alkynyl Groups — R. I. Kruglikova, S. V. Vasil'ev, L. A. Kudryukova, and G. R. Kalinina	1904 1961
Basicity of Aliphatic and Aliphatic-Aromatic Aminoketones — S. V. Bolatkov, S. V. Ivchenko, G. P. Chernysh, B. V. Inkovskii, and E. M. Cherkasova	1909 1966
Effect of the Structure of Alkyl Amines on Their Reactivities with Aryl sulfochlorides — L. M. Litvinenko and A. F. Popov	1912 1969
Complexes of Aromatic Hydrocarbons with Metal Halides and Hydrogen Halides. IV. Features of Absorption Bands of Quasi-Aliphatic Methylene Groups in the Infrared Spectra of Arenonium Ions — V. A. Koptug, I. K. Korobeinicheva, T. P. Andreeva, and V. A. Bushmel'ev	1920 1979
Charge Transfer and the Strength of Intermolecular Bonds in Donor-Acceptor Complexes — I. P. Gol'dshtein, E. N. Kharlamova, and E. N. Gur'yanova	1925 1984

(Contd)

Available From Consultants Bureau

continued

Engl./Russ.

Kinetics of the Acid Deuteroexchange of Thiophene and Some Derivatives Thereof — E. N. Zvyagintseva, T. A. Yukushina, and A. I. Shatenshtein	1933	1993
Investigation of the Reactivity of Isomeric Methylmercaptothiophenes by the Deuterium Exchange Method. I. Kinetics of Deuterium Exchange with Bases — Yu. I. Shapiro, L. I. Belen'kii, I. A. Romanskii, F. M. Stoyanovich, Ya. L. Gol'dfarb, and A. I. Shatenstein	1938	1998
Investigation of the Reactivity of Isomeric Methylmercaptothiophenes by the Deuterium Exchange Method. II. Kinetics of Exchange with Acids — E. N. Zvyagintseva, L. I. Belen'kii, T. A. Yakushina, Ya. L. Gol'dfarb, and A. I. Shatenshtein	1944	2004
Bifunctional Catalysis in Acylation of Arylamines with Various Benzoyl Chloride Derivatives in Benzene — G. V. Semenyuk, N. M. Oleinik, and L. M. Litvinenko	1949	2009
Spectrophotometric Study of Xylene Orange and Its Complex with Bismuth — P. N. Kovalenko, K. H. Bagdasarov, I. E. Shelein and M. A. Shemyakina	1955	2015
ii. Spectra of Certain Substituted Pyrroles — L. V. Kazanskaya, T. A. Melent'eva, and V. M. Berezovskii	1960	2020
Dependence of the Properties of Polymethine Dyes on the Electronic Character of the Substituents in the Heterocyclic Rings. I. Basicity of Symmetrically Disubstituted Indo-, Thia-, Quino (2)-, and Imidocarbocyanides — E. B. Lifshits, N. S. Spasokukotskii, L. M. Yagupol'skii, E. S. Kozlova, D. Ya. Naroditskaya, and I. I. Levkoev	1965	2025
Chemistry of Azacyclics. II. Synthesis and Properties of C-Acyl Derivatives of Anhydrooxa- and Anhydroazacyclics — A. M. Shkrob, Yu. I. Krylova, V. K. Antonov, and M. M. Shemyakin	1970	2030
Chemistry of Azacyclics. III. Hydrolysis of Anhydroazacyclic Salts — Yu. I. Krylova, A. M. Shkrob, V. K. Antonov and M. M. Shemyakin	1983	2046
Chemistry of Azacyclics. IV. Synthesis of Stable Azacyclic Derivatives — A. M. Shkrob, Yu. I. Krylova, V. K. Antonov, and M. M. Shemyakin	1987	2051
Nuclear Gamma-Resonance in Acetylene Compounds of Tin — B. I. Rogozev, V. S. Zavgorodnii, L. M. Krizhanskii, and A. A. Petrov	1999	2064
Acetylene-Allene Isomerization of Alkylpropargylchlorophosphites — S. Z. Ivin, V. N. Pastushkov, Yu. A. Kondrat'ev, K. F. Ogloblin, and V. V. Tarasov	2004	2069
Reaction of Chloromethyldichlorophosphine with Acrylamide — U. K. Khairullin, M. A. Vasyanina and A. N. Pudovik	2006	2071
Addition of Dialkylphosphorous Acids to Acetylenic Aldehydes and Ketones — A. N. Pudovik and O. S. Shulyndina	2009	2074
Participation of the N=P Bond in Conjugation. II — I. N. Zhmurova, R. I. Yurchenko, and A. V. Kirsanov	2012	2078
Reactions of 4-Vinyl-1,2-epoxycyclohexane. I. Reaction of 4-Vinyl-1,2-epoxycyclohexane with Phosphorus Trichloride — E. L. Geifter, V. N. Gorbunov, and D. M. Filippenko	2016	2082
Reactions of O,O-Dialkyl(aryl) Dithiophosphates with Aldehydes and Ketones. II. Reactions of O,O-Dialkyl Dithiophosphates with Aliphatic Aldehydes — T. P. Bachinskii and N. I. Zemlyanskii	2019	2085
Study of the Stability of Mercury Complexes with Phosphorus Thio and Dithio Acids — V. F. Toropova, M. K. Saikina, N. I. Guseeva, R. A. Cherkasov, and M. G. Khakimov	2022	2088
Syntheses of Polyenic Compounds. XXIX. Intramolecular Transformations of δ -Ketoalkylphosphonium Salts in the Attempted Preparation of Phosphoranes from Them — L. P. Davydova, L. N. Kaboshina, E. A. Obol'nikova, I. M. Kustanovich, and G. I. Samokhvalov	2025	2091
Organic Insectofungicides. Reaction of Hexaalkyltriaminophosphines and Tertiary Aliphatic Phosphines with Esters and Amides of Chloroacetic Acid — N. N. Mel'nikov, B. A. Khaskin, and N. B. Petruchenko	2030	2096
Reaction of Dichlorides of Alkyl(aryl)phosphonic Acids with Benzoylhydrazide — N. N. Mel'nikov, O. B. Mikhailova, and A. F. Grapov	2033	2099

(Contd)

Available From Consultants Bureau

Synthesis and Some Transformations of Organosilicon Ethylenic Aldehydes — N. V. Komarov, S. V. Kirpichenko, E. I. Kositsyna, and G. A. Kalabin	2035	2102
Optical Isomerism of Secondary Halo-Substituted Arsines — Yu. F. Gatilov and L. B. Ionov	2039	2106
Basicity of Goides of Para-Substituted Aryldialkyl- and Aryldiphenylarsines — B. D. Charnokai'skii, A. S. Gel'fond, and G. Kamat	2041	2108
LETTERS TO THE EDITOR		
On the Problem of the Stability of the Ferricinium Ion in Aqueous Solutions — E. Ya. Kalontarova, P. K. Leont'evskaya, A. A. Pendin, and B. P. Nikol'skii	2045	2112
The Synthesis of Silylallenes and Silylisopropenylallenes — L. N. Cherkasov, L. M. Zubritskii, and Kh. V. Bal'yan	2046	2113
Cyclization of α -Unsaturated Organometallic Compounds — V. N. Drozd, Yu. A. Gistynyuk, M. A. Tsel'eva, and L. B. Dmitriev	2047	2114
Reaction of Nucleosides with Diphenylboric Acid Esters — A. M. Yurkevich, L. S. Varshavskaya, and I. I. Kolodkina	2048	2115
Reaction of Tetrafluorobenzobarrelene and its Derivatives with Phenylazide — I. N. Vorozhtsov, N. N. Povolotskaya, A. K. Petrov, and V. A. Barkhash	2049	2116
The Interaction of Tetrafluorobenzene with Cyclohexane — I. F. Mikhailova and V. A. Barkhash	2050	2117
Reaction of Polyfluoropolyarylcabinols with Anhydrous Hydrogen Fluoride — T. N. Gerasimova, A. G. Badashkeeva, E. G. Lokshina, V. A. Barkhash, and N. N. Vorozhtsov, Jr.	2051	2118
The Synthesis of Δ^{13} -Labdene-8 α ,15-diol — L. A. Salei and G. V. Lazur'evskii	2053	2119
On the Paramagnetism of Nickel-Formazan Complexes — A. D. Garnovskii, N. P. Bednyagina, L. I. Kuznetsova, V. T. Panyushkin, O. A. Osipov, R. I. Ogloblina, and A. P. Novikova	2054	2119
Absorption Spectra of the Complexes from the Onium Salts of S,O-Heterocycles with Aro- matic Amines — V. A. Izmail'skii and G. E. Ivanov	2056	2121
Quinonylaminodesoxysugars — V. I. Veksler and Z. Ya. Khavin	2058	2122
Influence of Size of Alkyl Radicals on Silicon on Rate of Hydrolysis of Organosilicon Esters of Methacrylic Acid — D. N. Andreev and D. N. Alekseeva	2060	2123
Unsaturated Phosphonic Acids and Their Derivatives. VI. Synthesis of Ternary Phosphine Oxides with 1,3-Diene Radicals — L. N. Mashlyakovskii, B. I. Ionin, I. S. Okhrimenko, and A. A. Petrov	2061	2124
DISCUSSION		
A Question Concerning Tetravalent Tungsten Oxyfluoride (WOF ₄) — D. D. Moldavskii, V. G. Temchenko, and N. N. Podpadaeva	2062	2125

The Russian press date (podpisano k pechatii) of this issue was 9/3/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

JOURNAL OF APPLIED CHEMISTRY of the USSR

A translation of *Zhurnal Prikladnoi Khimii*

Volume 41, Number 7

July, 1968

CONTENTS

	Engl./Russ.
Kinetics of U_3O_8 Reduction by Carbon Monoxide - V. N. Shalaginov, V. G. Vlasov, and I. V. Chazov.	1339 1397
Decomposition of Apatite by Mixtures of Concentrated Sulfuric and Phosphoric Acids - B. A. Kopylev, M. V. Zhdanova, and M. E. Pozin.	1344 1402
Catalytic Decomposition of Hydrogen Peroxide under the Influence of Dimethyl Sulfoxide Compounds of Palladium (II) - Yu. N. Kukushkin and R. A. Vlasova.	1348 1407
Thermographic Study of the Formation of Calcium Hydrocarboaluminate during Hydration of Tricalcium Aluminate - T. K. Bratskus, Z. D. Tulovskaya, and E. E. Segalova.	1355 1414
Influence of Sodium, Potassium, and Ammonium Sulfates on Hydrolysis of Aluminum Sulfate Solution and Study of Certain Physicochemical Properties of the Basic Salts - V. S. Sazhin, A. K. Zapol'skii, and N. N. Zakharova.	1359 1420
Hydration Kinetics of the Products Formed by Dehydration of Magnesium Carbonate Trihydrate - Z. A. Konstant and A. Ya. Valva.	1363 1424
Investigation of Colloidal Phases in the System $Na_2O-CaO-SiO_2-H_2O$ - O. I. Luk'yanova, I. Yu. Uvarova, and B. P. Ulanov.	1369 1430
Separation of Nitrogen-Hydrogen Mixtures with the Aid of CaA Zeolite - N. A. Novikova, V. P. Derevyagina, and I. S. Dankova.	1376 1439
Chemical Compound in the System $MgO-CuO$ - V. M. Ust'yantsev and A. F. Bessonov.	1379 1443
Glasses Containing Gallium Oxide - V. N. Polukhin, M. V. Zimina, R. P. Smirnova, and L. A. Solov'eva.	1383 1447
Changes Occurring in the Structure of Porous Glass on Heating - I. K. Meshkovskii, G. M. Belotserkovskii, T. G. Plachenov, and O. S. Molchanova.	1387 1452
Activity of Cobalt and Nickel Oxides in Molten Enamels - A. A. Perminov and S. I. Popel'.	1391 1457
Thermodynamic Properties and Phase Diagram of the Aluminum-Gallium System - V. N. Danilin and S. P. Yatsenko.	1396 1463
Nickel Plating with the Aid of Pulsating Current - R. I. Gurovich and A. K. Krivtsov.	1401 1469
Acceleration of Electrochemical Reduction of Sexivalent Uranium to the Quadrivalent State - Yu. S. Gurinov and Yu. G. Prolov.	1405 1473
Chlorination of Slime from Electrolytic Refining of Copper - Ya. I. Ivashevtsev and Yu. I. Rubtsov.	1410 1479
Influence of Sulfur-Containing Additives on the Characteristics of Cast Zinc Anodes in Alkaline Cells - V. N. Flerov, A. V. Merkulov, and M. P. Merkulova.	1415 1484
Low-Temperature Reduction of Oxides of Iron and Other Metals by Methane - V. V. Veselov and V. P. Dorokhov.	1420 1489
Kinetics of Adsorption in Reactors with Fluidized Adsorbent Beds - P. G. Romankov, V. A. Astakhov, V. N. Lepilin, and V. D. Lukin.	1424 1494
Influence of the Composition of Binary Mixtures and Flow Rates on Mass Transfer during Uniflow High-Speed Rectification - N. A. Malafeev, G. N. Chernykh, and V. A. Malyusov.	1427 1498

(Contd.)

Available From Consultants Bureau

Mass Transfer in a Tubular Bubbling Extractor - V. P. Metkin and V. N. Sokolov	1432	1504
Simulation of Multibed Reactors for the Oxidation of Sulfur Dioxide in Suspended Catalyst Layers - G. N. Balabanovich, B. V. Il'in, and D. G. Traber	1438	1511
Relation between the Phase Contact Area and Bubble Size in Bubbling - M. M. Yevlerovskii and V. V. Dillman	1443	1517
Composition of the Liquid Drops Entrained during Mass Microbubbling - V. G. Oleim and A. N. Vishnevetskaya	1446	1520
Investigation of Temperature Fields in a Liquid Spray Jet in a Fluidized Bed - P. G. Dobrygin, V. I. Davydov, L. K. Vasanova, and Yu. N. Shimanskii	1450	1524
Some Properties of the Activation Energies of Viscous Flow, Self-Diffusion, and Diffusion of Organic Compounds - A. A. Abramzon and M. V. Ostrovskii	1454	1529
Investigation of Pyrolysis of Town Gas in a Laminar Diffusion Flame - L. G. Rodygina and A. D. Kokurin	1461	1535
Kinetics of Tetracycline Sorption by Highly Permeable Macronetwork Sulfonated Resins - G. V. Samsonov, A. Sh. Genedi, K. B. Musabekov, and G. E. El'kin	1468	1540
Synthesis of Phosphorus-Containing Acrylate Oligomers - L. P. Raskina, R. V. Guseva, B. S. El'tsefon, and A. A. Berlin	1470	1544
Catalytic Hydrogenation of Dimethylethynylcarbinol in the Vapor Phase - D. Z. Levin, M. A. Besprozvannii, N. F. Kononov, and V. F. Kucherov	1475	1551
Investigation of Phase Equilibrium in the Ternary System Vinyl Acetate-Methanol-Cyclohexane - T. S. Rudakovskaya, S. A. Soboleva, V. S. Timofeev, and L. A. Serafimov	1479	1556
Structural Units and Elementary Composition of Sulfonated Phenol-Formaldehyde Ion Exchangers - A. A. Vasil'ev	1483	1561
Fractionation of Ester and Ether Oligomers by Gel Filtration - I. A. Vakhtina, O. G. Tarakanov, and P. A. Okunev	1488	1566
Use of Polymers for Separating Acetylene from Its Homologs - G. N. Freidlin, L. Ya. Voronova, and V. I. Bushinskii	1491	1570
Hydroformylation of Olefins in Presence of Rhodium Carbonyls - V. Yu. Gankin, L. S. Genender, and D. M. Rudkovskii	1497	1577
Influence of Temperature on the Solubility of p-Chloroaniline and 3,4-Dichloroaniline in Certain Organic Solvents - E. Z. Zhuravlev, S. Ya. Serukhina, N. V. Kutuzova, G. I. Tupitsyn, and I. I. Konstantinov	1501	1577
Structure and Tautomerism of Substituted Imidazolines - V. I. Isagulyants, R. Boeva, Z. D. Kustanovich and V. S. Markin	1505	1585
Phosphorylation of Cellulose by Alkyl- and Arylphosphonic Acids in Presence of Urea - K. A. Petrov, L. N. Andreev, and I. I. Sopikova	1509	1590
Investigation of the Lignin-Carbohydrate Bond in Soda Lignin from Deciduous Woods - M. F. Kiryushina and D. V. Tishchenko	1514	1596
BRIEF COMMUNICATIONS		
The State of Palladium in Sulfate-Chloride Electrolytes - Yu. N. Kukushkin, S. A. Simanova, and G. I. Fedorova	1521	1604
Solubility of CaCO ₃ and Mg(OH) ₂ at 25, 50, and 75° in Aqueous NaCl Solutions Close to Saturation - A. F. Boryachek, E. T. Gromova, and O. N. Kulagina	1524	1606
Preparation of Technical Magnesium Fluosilicate from Concentrated Fluosilicic Acid - G. A. Lopatkina, T. N. Kolosova, and M. A. Groznykh	1527	1608
The Ternary System Thiourea-Manganese Chloride-Water at 25 and 50°C - I. G. Druzhinin and O. I. Parileva	1531	1612
Improvement of the Corrosion Resistance of Zinc Coatings - E. M. Romanova and M. A. Kozlova	1535	1615
Selection of a Rational Method of Passivation of Electrolytic Tin Plate - A. N. Kruglov and M. E. Prostakov	1537	1617

(Contd.)

Available From Consultants Bureau

ZHURNAL PRIKLADNOY KHIMIY
Vol 41, No 7, 1968

CONTENTS

(continued)

Engl./Russ.

Investigation of the Pore Structure and Dynamic Activity of Molded Erionite - V. Kh. Dobrutskin, G. M. Belotserkovskii, and T. G. Plachenov.....	1539	1619
Oxidation of Dimethyl Sebacate - L. I. Ermolaeva and B. G. Freidin.....	1542	1622
Acetals of Polyhydroxy Compounds - L. V. Kuz'mina and O. M. Klimova.....	1546	1625
New Method for Synthesis of Dimethylphosphinic Acid - G. Ya. Gordon, S. L. Varshavskii, and L. P. Kofman.....	1549	1628
Sorption of Organic Substances by Kaolins - V. V. Lapin and D. V. Tishchenko.....	1550	1629
Investigation of Aging of Rigid Polyvinyl Chloride in Underground Conditions - N. E. Voronovskii and V. A. Voskresenskii.....	1553	1632

The Russian press date (podpisano k pechati) of this issue was 7/12/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

JOURNAL OF APPLIED CHEMISTRY of the USSR

A translation of *Zhurnal Prikladnoi Khimii*

Volume 41, Number 8

August, 1968

CONTENTS

	Engl./Russ.
Preparation and Properties of Neutral Dysprosium and Holmium Tungstates - V. M. Amosov and V. E. Plyushchev	1557 1637
Anhydrous Perrhenates of the Rare-Earth Metals - V. E. Plyushchev and M. B. Varfolomeev	1561 1643
Preparation of Magnesium Fluoride from Sodium Fluoride and Magnesium Sulfate - G. A. Lopatkina, P. S. Rempel', T. N. Kolosova, and N. L. Antoshkina	1564 1646
Thermodynamic Study of Reactions in Mixtures of Quartz with Lithium Carbonate and Sulfate - M. A. Matveev, B. N. Frenkel', and G. M. Matveev	1569 1652
Study of the Acid-Base Properties of Glasses in the Me_2O-SiO_2 System by the EMF Method - A. S. Es'kov and N. F. Smakota	1577 1662
Crystallization Fields of Solid Phases in the System $Na_2O-CaO-Al_2O_3-SiO_2-H_2O$ at 280° - V. S. Sazhin, O. I. Shor, V. F. Gol'nik, A. I. Volkovskaya, R. G. Panchenko, and K. A. Polyakova	1581 1667
Thermal Decomposition of Artificial Potassium Alunite - V. S. Sazhin, A. K. Zapol'skii, and N. N. Zakharova	1587 1675
Equilibrium in the System Urea-Ammonium Carbonate-Aqueous Ammonia - S. N. Ganz, R. I. Braginskaya, and L. P. Ruban	1591 1680
Thermochemical Conversions of Iron Pyrite and Pyrrhotite on Heating in Oxidizing and Inert Media - N. Sh. Safiullin and É. B. Gitis	1598 1686
Equilibria of Magnesium Chloride Hydrolysis in an Electrolyte - A. B. Ivanov and N. M. Zuev	1603 1693
Equilibrium Hydrolysis in Dehydration of Magnesium Chloride Hydrates in Electrolytes - A. B. Ivanov and N. M. Zuev	1607 1698
Heats of Hydration of Polyphosphoric Acid - I. M. Mal'tseva, M. S. Stakhanova, I. N. Shokin, and E. L. Yakhontova	1612 1704
Synthesis of Molybdenum Disulfide, Suitable for Use as a Lubricant, in a Sulfidizing Gas Stream - A. A. Opalovskii and V. E. Fedorov	1616 1708
Mechanism of Acid Corrosion of Surface-Oxidized Aluminum in Presence of Certain Amines - V. P. Grigor'ev and V. V. Kuznetsov	1620 1712
Removal of Tin Impurity from Indium by Zone Refining of Its Lower Chlorides - P. I. Fedorov and N. S. Malova	1624 1717
Participation of Iron and Titanium Ions in Electronic Conduction in Glasses - V. A. Tsekhomskii	1628 1722
Mathematical Calculation of the Specific Conductance of Concentrated Phosphoric Acids - I. G. Fedorchenko, Z. V. Kondratenko, and I. A. Kovalev	1632 1727
Sorption of Magnesium Ions from Ammonium Buffer Solution by Silica Gel - A. P. Dushina, V. B. Aleskovskii, and M. F. Smirnov	1635 1730
Anodic Dissolution of Zinc Electrodes with Porous Active Material in Voltaic Cells with Alkaline Electrolyte - Z. P. Arkangel'skaya, G. P. Andreeva, and M. N. Mashevich	1640 1736
Available From Consultants Bureau	(Contd)

Influence of Anodic Dissolution of Nickel on the Stability of Aqueous Polyacrylonitrile Suspensions - A. E. Kovylov and I. S. Lavrov	1646	1743
Inhibition of Metal Corrosion in Hydrochloric Acid Solutions by Higher Pyridine Bases - V. N. Dolinkin and S. A. Balezin.	1651	1749
Corrosion of Silicate Glass by Drops of Water - B. V. Zheleznyi	1655	1753
Changes in the Properties of Ion Exchange Membranes Used for Production of Acid and Alkali from Salt Solutions by Electrodialysis - F. V. Rauzen, S. S. Dudnik, and M. A. Zhukov.	1659	1758
Additional Polarization of Liquid in Noncontact Cells - S. V. Usikov, S. L. Dobychin, and Z. D. Ivanova.	1662	1761
Desorption of Germanium from Activated Wood Charcoal under Static Conditions and by Centrifuging - D. Ya. Evdokimov and A. P. Kostyuk.	1666	1766
Low-Temperature Desorption by Water Vapor of Substances Adsorbed on Zeolites - T. G. Plachenov, L. A. Rybkina, and A. N. Shiryaev.	1670	1771
Dynamics of Sorption in a Sorbent Bed of Variable Section with the Heat of Sorption Taken into Account - O. M. Todes and Yu. S. Lezin.	1676	1778
Efficiency of Crossflow Plates with the Degree of Vapor Mixing between the Plates Taken into Account - I. A. Aleksandrov.	1681	1783
Influence of the Properties of the Components of Liquid Homogeneous Mixtures on the Rate and Selectivity of Their Separation with the Aid of Polyethylene Films - A. A. El'bert, Yu. I. Dymerskii, and N. F. Kononov	1687	1790
Isolation of Quinaldine from a Ternary Mixture with Quinoline and Isoquinoline - I. G. Belavina and M. M. Potashnikov	1695	1798
Solubilities of the Acid Sulfate and Monosubstituted Phosphate of Lepidine in Water and Ethyl Alcohol - V. A. Popov and I. G. Belavina	1698	1802
Catalytic Chlorination of Carboxylic Acid Anhydrides by Carbon Tetrachloride - V. N. Dubchenko and V. I. Kovalenko.	1701	1805
The Stabilizing Effects of Certain Epoxy and Episulfide Compounds on Degradation of Polyvinyl Chloride by Heat and Light - D. M. Yanovskii, L. M. Bobinova, I. I. Florentsova, and A. A. Berlin.	1705	1810
Preparation of Low-Molecular Polystyrene - A. F. Nikolaev, K. V. Belogorodskaya, and E. M. Babushkina.	1709	1815
Investigation of the Reaction of Ethylene Oxide with Alkali Cellulose - V. F. Konoplenko, N. N. Khin, T. I. Pokrovskaya, Yu. V. Sharikov, and M. V. Prokof'eva.	1714	1820
Plastics from Polyarimides of 1,2,3,4-Mesobutane- and 1,2,3,4-cis,cis,cis,cis-Cyclopentanetetracarboxylic Acids - V. V. Kudryavtsev, A. P. Rudakov, M. M. Koton, B. L. Moldavskii, O. E. Batalin, and E. I. Rubinshtein.	1719	1825
Solubility of Tere- and Isophthalonitriles - L. B. Gal'perin and M. I. Yakushkin	1723	1829
Development of Methods for Quality Control of Electrode Masses Based on Their Viscosity and Technological Tests - A. A. Trots, V. N. Krylov, E. Ya. Soloveichik, and N. S. Printsev	1727	1834
Synthesis and Surface Activity of Acyl Derivatives of the Condensation Products of Polyhydric Alcohols and Hexamethylenediamine with Ethylene Oxide - V. P. Gorodnov and A. A. Petrov	1731	1839
Quantitative Determination of Acenaphthenequinone and Naphthalic Anhydride with the Aid of o-Phenylenediamine - A. I. Kamneva and A. I. Zhemzhur	1736	1844
Investigation of the Lignin-Carbohydrate Bond in Soda Lignin from Deciduous Woods - M. F. Kiryushina and D. V. Tishchenko.	1740	1848
Preparation of Nitroethanol by Condensation of Nitromethane with Formaldehyde - V. I. Burmistrov and V. M. Bashinova	1744	1853

(Contd.)

Available From Consultants Bureau

BRIEF COMMUNICATIONS

Influence of the Iron Component on the Viscosity of the Liquid Phase Formed during Burning of Portland Cement Clinker - I. F. Ponomarev, A. N. Grach'yan, and G. I. Kramanovich	1749 1859
Volume Properties of Melts Consisting of the Fluorides and Chlorides of Potassium and Barium - G. A. Bukhalova and E. S. Yagub'yan	1752 1861
Influence of the Electrolysis Conditions on Hydrogen Absorption and Submicrostructure of Electrolytic Iron Coatings - Yu. N. Petrov, E. A. Mamontov, V. V. Karyakin, and V. Ya. Rybkovskii.	1756 1866
Electrical Conductivity of Ion Exchange Columns with Fluidized Beds of Ion Exchanger - V. D. Grebenyuk, N. P. Gnausin, and T. Z. Trakhtenberg	1760 1870
Electrodeposition of Iron-Chromium-Nickel Alloy of the Cr18 Ni9 Type - N. T. Kudryavtsev, T. G. Smirnova, and O. P. Volkova	1763 1873
ERRATA	1767

The Russian press date (podpisano k pechati) of this issue was 8/8/1968.
Publication therefore did not occur prior to this date, but must be assumed
to have taken place reasonably soon thereafter.

Available From Consultants Bureau

ZHURNAL TEKHNIЧЕСКОИ ФИЗИКИ
EDITORIAL BOARD

N. P. Bagrovitskii
A. M. Bruch Bruevich
S. E. Breiler
V. M. Dukel'skii
N. V. Fedorenko
V. E. Golant
G. A. Grinberg
A. P. Komar
B. P. Konstantinov
(Editor)

Director,
Institute of Physicochemical Institute
Academy of Sciences of the USSR,
Leningrad

L. G. Loitsyansky
G. V. Skornyshev
(Associate Editor)

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 38, No. 10, pp. 1613-1828, October, 1968)

Vol. 13, No. 10, pp. 1311-1474

April, 1969

CONTENTS

	PAGE	RUSS. PAGE
Stability of Plasma with Anisotropic Pressure in the Quasihydrodynamic Approximation. V. I. Yashin	(T) 1311	1613
Drift Oscillations in a Weakly Ionized Plasma. I. S. Baikov and A. A. Rukhadze.	(T) 1315	1619
Magnetic Permeability of an Ellipsoid. M. L. Levin and R. Z. Muratov	(T) 1318	1623
Cyclotron Instability in a Magnetic Trap with Cold Plasma. T. A. Davydova	(T) 1323	1630
Intense High Frequency Discharge in a Field that Increases toward the Periphery. A. M. Andrianov, G. B. Levadnyi, S. M. Osovets, and V. I. Sinitsyn	(E) 1331	1641
Resonant Discharge at Centimeter Wavelengths. D. A. Ganichev, V. A. Stanskii, and B. V. Khrisanfov	(E) 1340	1653
Excitation of Ion-Acoustic Standing Waves in a Weakly Ionized Plasma. É. M. Barkhudarov, B. P. Zhvaniya, and V. P. Kortkhondzhiya	(E) 1345	1660
Plasma Diagnostics in a Magnetic Field Using Thin Cylindrical Probes. Yu. M. Kagan and V. I. Perel'	(T) 1348	1663
Inertial Effect in a Glow Discharge. Yu. I. Iorish and V. Ya. Dotsenko	(E) 1351	1667
Inhomogeneous Plasma in a Penning Discharge. Yu. E. Kreindel' and L. A. Levshuk	(E) 1358	1675
Use of a Plasma Jet to Amplify Radiation. V. M. Gol'dfarb and G. A. Luk'yanov	(E) 1365	1684
Cutoff of a Plasma Jet by a Transverse Magnetic Field. É. Ya. Gol'ts and A. Z. Khodzhaev	(E) 1370	1690
Resistance of a Pulsed Xenon Discharge in Quartz. S. I. Andreev and V. E. Gavrilov	(E) 1376	1697
Theory of an Arc Column with Natural Convection. I. A. Krinberg	(T) 1382	1705
Controlled Discharge in a Liquid. I. I. Aksekov, V. K. Bocharov, and S. A. Smirnov	(E) 1389	1714
Electrode Effects in a Gas Discharge. A. D. Lebedev	(T) 1393	1719
Pulsed Plasma Heating in High-Pressure Electrodeless Discharges. R. V. Mitin and K. K. Pryadkin	(E/T) 1398	1727
Ionization in a Cesium Plasma and Simultaneous Free-Electron Maxwellization in a Plasma. F. G. Bakeht, B. Ya. Moizhes, and V. A. Nemchinskii	(T/E) 1401	1731

(Contd.)

Available From The American Institute of Physics
Vol 13, No 10, April, 1969

ЖУРНАЛ ТЕХНИЧЕСКОЙ ФИЗИКИ
Vol 38, No 10, 1968

		PAGE	RUSS. PAGE
Radiation Pattern of a Coaxial Optical Waveguide. V. A. Pruzhanovskii. . . .	(T/E)	1411	1744
Resonance Injection with Two Degrees of Freedom in a Strong-Focusing Synchrotron. V. A. Titov and I. A. Shukeilo	(T/E)	1416	1752
Internal Structure of Nonlaminar Intense Charged-Particle Beams with Axial Symmetry. V. S. Kuznetsov and R. P. Fidel'skaya	(T)	1419	1756
Limiting Proton Currents in a Strong-Focusing Accelerator. E. A. Abramyan, V. V. Vechevskov, and V. I. Kononov	(T/E)	1423	1762
Arrangement for Studying the Spectral Characteristics of Laser Radiation. V. D. Velosov	(E)	1429	1769
Electromagnetic Methods for Studying the Antarctic Snow and Ice Cover. V. S. Luchininov and V. N. Rudakov	(T/E)	1432	1772
Dissociation of Negative Ions in Atomic Collisions. B. M. Smirnov.	(E)	1440	1784
Thermionic Emission Properties of Tungsten Oxide. É. Ya. Zandberg and U. Kh. Rasulev	(E)	1446	1793
Surface Ionization of Aniline Molecules. É. Ya. Zandberg and U. Kh. Rasulev. Compensation of Selective Excitation of X-Ray Fluorescence. N. F. Losev and G. V. Pavlinskii	(E/T) (T/E)	1450 1454	1798 1803
BRIEF COMMUNICATIONS			
Aberrations of an Electrostatic Quadrupole Lens Due to Field Asymmetries. L. P. Ovsyannikova and S. Ya. Yavor	(T)	1459	1810
Electron Emission from the Cathode in a Hollow-Cathode Discharge. V. S. Borodin, V. P. Cofmeister, Yu. M. Kagan, and G. Kovollik	(E)	1462	1814
Thermoelectric Generator for Superconducting Solenoids. G. G. Borzov, B. M. Gol'tsman, G. N. Ikonnikova, V. P. Sergeev, and É. Kh. Shapiro	(E)	1465	1817
Variation in Electron-Energy Distribution in Moving Striations. Yu. M. Kagan, N. B. Kolekolov, and V. M. Milenin	(E)	1468	1821
LETTERS TO THE EDITOR			
Holographic Strobe Method for Studying Vibrations. A. N. Zaidel', L. G. Malkhasyan, G. V. Markova, and Yu. I. Ostrovskii	(E)	1470	1824

Available From The American Institute of Physics
Vol 13, No 10, April, 1969

INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover table of contents.

- A -

Abdrakhmanov, M.	10	Andjelkovic, N.	69
Abella, Arturo	45	Andreyev, K. K.	140
Abouhamad, Gabriel	31	Andreyeva, T. M.	83
Abramov, A. A.	71	Andrianov, V. F.	60
Abramovich, R. B.	140	Anhoury, Sami	33
Abruz, A.	94	Anikeyeva, I. D.	59
Aburdzhaniya, O. K.	50	Anilin, B.	106
Abuzyarov, Z. K.	79	Anisimov, G.	8
Acloque, P.	136	Anisimov, V. F.	141
Adkhamova, N. S.	127	Annan, Mohamed	32
Afanas'yev, Ye. F.	126	Antipov, V. G.	129
Afonina, R. G.	55	Antoine, Louis	65
Agapov, Ye. S.	141	Antonelli, E.	140
Aingorn, M. A.	121	Antonets, D. P.	111
Akhmedzyanov, M. A.	122	Antonishin, N. V.	109
Akhromeyev, S.	13	Antonov, A. A.	71
Akimov, I. A.	133	Antonov, N.	50
Akol'zin, P. A.	70	Anwander, E.	85
Akopova, A. B.	125	Apanasewicz, S.	138
Akopyan, V. A.	87	Appel, H. G.	118
Akramov, Ye.	51	Arana O., Carlos M.	43
Alava Ormaza, Milton	46	Araujo, Juan Carlos	44
Albrecht, W.	137	Arbuzov, S. Ya.	60
Aleksandrov, A. P.	124	Arenas Reyes, Jaime	46
Aleksayevskiy, Ye. Ye.	49	Argaman, Joseph	34
Alekseyenko, N.	14	Arinushkin, L. S.	88, 140
Alekseyev, V. A.	131	Arizala, Jose	45
Alekseyevskiy, Ye. Ye.	49	Arkad'yev, D. A.	89
Alesina, A. M.	57	Arkhangelskiy, N. Ye.	142
Alexe, Niculae	21	Arkhanov, A. M.	132
Aleyev, L. S.	61	Arkhipov, V.	13
Alferov, V. I.	133	Arkhipova, O. G.	59
Alfer'yev, V.	7	Arranz, F.	138
Algayev', V.	3	ar-Rayyis, Riyad Najib	33
Alix, A.	140	Arsen'yev, L. V.	139
Aliyev, R. M.	69	Artuso, F.	106
Almasan, Bujor	81	Artyushin, L. F.	122
Alpeyev, N.	6	Arvay, Janos	19
Alpsten, G.	109	Asaturov, A. A.	116
Althusser, Louis	27	Asinovskiy, Ye. I.	131
Ambartsumyan, V. A.	55	Aslanov, S. K.	139
Ambrozy, Jozsef	88	Astrakhantsev, V. I.	49
Amonenko, V. M.	88	Avdeyev, V. G.	65
Amosov, N. M.	61	Avotins, F.	71
An Pyong-gwon	37	Avramenko, L. F.	133
Anatoly, S. A.	64	Ayollo, G.	79
Anders, A. A.	112	Ayrapetyan, V. G.	63
Anders, Manfred	52	Ayyub, Muhammad	
		al-Sayyid	34
		Azar'yan, M. B.	48
		Azimov, S. A.	131

- B -

Bachderf, R. H.	93	Bebiano, J. B.	81
Bachinin, S.	14	Bechet, B.	73
Bachstroem, R. Helge	18	Beck, H.	74
Bachurin A.	4	Becka, L.	95
Bacot	40	Becker, E.	103
Rader, C.	86	Becker, K. E.	102
Bagdanov, L. M.	72	Bedenkov, M. F.	2
Bagdasaryan, G. Ye.	128	Behnisch, H.	118
Baier, J.	99	Bekink, J.	85
Baimov, N. I.	89	Bel'chanskiy, G. I.	141
Bakayev, V.	8	Belcik, Jan	48
Baklunov, V. A.	131	Belik, Ya. V.	64
Bakowsky, E.	100	Belikov, Ye. I.	91
Bala, S.	100	Belikova, Ye. I.	91
Balanin, V. A.	139	Belokurov, B. S.	92
Balashov, I. F.	134	Belova, Ye. K.	70, 128
Balov, N.	15	Belubekyan, M. V.	128
Balyko, A. Ye.	115	Belyankin, F. P.	131
Bam-Zelikovich, G. M.	134	Benda, P.	94
Banales, Carlos	43, 44	Ben-Yitshaq	34
Bandi, G. L.	67	Beqja, Hamit	22
Barabash, A.	114	Beranger, G.	125
Baraboy, V. A.	60	Berezhnov, V. L.	115
Baranov, G. S.	121	Berezin, B. G.	134
Baranov, N. A.	72	Berezin, N. T.	62
Baranov, Ye. F.	2	Berezkina, M. K.	126
Barashenkov, V. S.	130	Bereznyak, Ye. S.	15
Barashkov, G. A.	63	Berg, G. A.	139
Barashkov, G. K.	63	Berger, C.	86
Barayev, A.	50	Berger, Carlos	45
Barbu, Nicolae	52	Bergstrom, H.	109
Barinova, T. D.	64	Beritashvili, I. S.	61
Barre, B.	143	Berkov, N.	2
Barrilla Barascut,		Berlyand, M. Ye.	62
Enrique	42	Bernetel, Paul	33
Bartholmai, Hans	122	Berouti, Lucien	31
Bashkin, V. A.	135	Berridge, D. R.	125
Bastien, B.	97	Berruti, V.	106
Batalina, T. A.	60	Bershchanskaya, Ye.	6
Batenchuk, Ye. N.	79	Bershteyn, M. L.	89
Batkayeva, I.	114	Bertinov, A. I.	82
Batov, Iv.	49	Bessonov, M. I.	91
Baturin, A. I.	115	Betko, J.	84
Baudran, A.	97	Beusch, W.	137
Baumann, E.	51	Beyrer, R. H.	117
Baumann, H. G.	108	Bezdelev, V.	1
Baumgartner, F.	74	Bier, K.	66
Bayuk, Ye. I.	78	Billioque, H.	97
Bazarov, V. D.	130	Billoux, Francois	27
Bazhdarov, Dimitur	16	Billy, M.	97
Bazilevich, N. I.	77	Binet, Jacques	30
Bazzhin, A. P.	128	Birl, K.	18
		Birman, A.	6
		Bjorkbacka, Oiva	26, 27

Blagovidov, I. F.	91	Brkanovic, Ljubo	21
Blaha, Jan	73	Brocker, H.	104
Blahova, Helena	22	Broder, D. L.	124
Blyumentsev, A. M.	138	Brodskiy, B.	112
Bobolev, V. K.	71	Bron, O. B.	82
Bobylev, S.	112	Bronstein, I. N.	110, 111
Bochagov, B. A.	126	Brown, J. P.	93
Boeger, P. A.	138	Brozzo, P.	106
Boerner, W.		Bruckmayer, F.	58
Bogachev, I. N.	130	Bruh1, R.	101
Bogacheva, A. A.	135	Burnee, C.	74
Bogatko, S.	6	Brunner, W.	136
Bogdan-Blakitnyy, R.	7	Bryant, A. J.	106
Bogdanov, Zdravko	65	Buachidze, S. R.	83
Bogoslovskiy, A. I.	63	Buchholz, G.	101
Bohm, I.	109	Buchholtz, H.	103
Bohm, Z.	94	Buda, Istvan	19
Bohme, Johann F.	141	Budarin, V.	10
Bohnstedt, U.	105	Budin, Yu. V.	128
Bokstein, B. S.	127	Budlovsky, Z.	135
Boldyrev, P.	113	Budnikova, N. A.	55
Bollenrath, F.	98	Budrin, S. V.	114
Bol'shutkin, D. I.	130	Budsuren, S.	38
Boltin, Ye.	9	Bugayev, S. P.	130
Bolyumova, A. D.	141	Bugyaki, A. R.	66
Bonatz, M.	80	al-Buhayri, Ahmad	31
Borchaninov, G. S.	82	Buhler, H.	105
Borisenko, M. M.	57	Buisine, M.	97
Borisov, B. D.	56	Bujini, A.	108
Borkovskiy, B. A.	84	Bukhanevich, V. F.	69
Borodin, V. A.	140	Bukhman, G. D.	86
Borodina, T. R.	48	Bulandra, Leopold	19
Borrat, Hector	43	Bulanov, P. A.	60
Borutskiy, Ye. V.	64	Bulgakov, A. A.	15
Borzenkova, I. I.	79	Bumbiyeris, Ye. V.	112
Borzov, V. P.	129	Bungardt, K.	98, 101
Bosch, Jua.	41	Bunkichiro Watanbe	68
Bosenko, V.	9	Buravikhin, V. A.	129
Bouchard, J.	73	Burgmann, G.	98
Boudet Gomex, Armando	53	Burk, Yu. M.	123
Boyadzhiev, D.	110	Burkhard, Y.	70
Brabcova, Lydia	17	Burley, B.	50
Brabcova, Vlasta	17	Burrell, J.	109
Braikova, P.	95	Bursa, M.	80
Brandis, H.	99	Bursiyan, Ye. V.	129
Brandl, J.	125	Burtsev, L.	113
Bratchenko, B. F.	87	Buryak, A. P.	130
Braun, A.	137	Busev, A. I.	69
Brauns, E.	104	Butkevich, K. S.	132
Bray, J.	97	Butnyk-Sivers'kyy,	
Bredov, M. M.	56	Borys	16
Briedon, Vojtech	58	Buzanov, I. F.	50
Brinberg, I. L.	111	Buzenkov, G. M.	49
Britov, G. S.	120	Bykov, A.	5

Bykow, B. I.	123
Bystrov, N. V.	63
Bystrova, N. V.	54
Byushgens, G. S.	48

- C -

Cabieses Donoso, Manuel	45
Cabrera, Sarandy	44
Cadek, J.	95
Calaora, Albert	88
Calomfirescu, Al.	68
Camille, J-P.	122
Cammerer, H.	98
Canic, J.	69
Canina, V. Garino	97
Cannavo, Christian	73
Cantero, Manuel	45
Cario, G.	137
Caro, R. A.	96
Carrera, Luis	45
Carriere, P.	48
Carrillo, Santiago	27
Castro Arenas, Mario	45
Catala, Jean-Michel	27
Cebertowicz, Romulad	119
Cenek, Miroslav	72
Cesari, B.	106
Chaboseau, Jean	88
Chaki, Norbert	50
Chanut, Jean	29
Ch'ang Tao Jen	36
Chashchin-Semenov, K. V.	122
Chaus, N. N.	110
Chauvenet, E.	73
Chebakov, V. D.	70
Chebatarev, G. A.	54
Chibotareva, N. Ye.	72
Chebotaevskiy, V.	1
Chekalin, Ye. K.	131
Chekin, O. N.	114
Chelnokov, M. B.	130
Chelysheva, I. F.	128
Ch'en, Shao-li	140
Ch'en Yen-chi	35
Chepovetskiy, A. G.	131
Cherkasov, Yu. A.	133
Cherkesov, L. V.	132
Chernin, K. Ye.	57
Chernina, T.	8
Chernov, Yu. V.	57
Chernovets, A. K.	82
Chernushchenko, P.	6
Chernyak, G. S.	91
Chernyavskiy, P. A.	71

Chernyavskiy, V. G.	92
Chemmy, I. A.	121
Chesnokov, N. A.	129
Chevalier, J.	119
Chi Pyong-hak	37
Chibisov, K. V.	121
Chien Yuan-heng	35
Chistyakova, Ye. M.	70
Chkhikvadze, V. M.	11
Chmielenski, J.	108
Chmielewski, W.	68
Cho Myong-il	37
Chovin, P.	73
Chubarina, Ye. V.	55
Chudakov, I.	116
Chugreyev, V. A.	87
Chuiko, N. M.	90
Chumachenko, M. N.	70
Chuykov, V.	13
Chuykov, V. I.	14
Cicenko, G. V.	115
Cihal, V.	94
Cimpeanu, Ion	20
Ciric, Milivoje	81
Ciulea, Octavian	21
Cnis'kov, A. D.	15
Cocco, Antonio	75
Colelia, A. Centi	67
Colic, D. Vukov	25
Colombo, E.	106
Comon, J.	97
Comte, Gilbert	30
Constantin, P.	24
Constantinescu, N. N.	21
Constantinescu, Radu	21
Cornet, A.	65
Correia, M.	70
Coutant, J.	136
Couzinet, R.-M.	96
Crabot, Jean	140
Cristescu, N.	136
Cubillas, Vicente	43
Cuu Long	38
Cybulski, W.	25,80
Czikel, J.	100
Czizmas, Michael	25

- D -

Daehne, S.	123
da Fonseca, A. C.	108
Daidov, M. S.	127
Danalache, Florian	120
Danecek, Jiri	18
Danilova, M. F.	59

Danishevskiy, G. M.	78	Dobesch, H.	86
Darmon, J. M.	122	Dobos, Istvan	18
da Silva, Mauricio		Dobrescu, Al.	68
Joppert	47	Dobreva, Yanka	116
Daskalov, Panayot	16	Dobrobaha, P.	15
Dautzenger, N.	102	Dobrotvorskii, A.	140
Davalos, Fernando G.	47	Dobrynin, B. M.	126
Davankov, A. B.	72	Dodbiha, Pirro	51
David, H.	66	Dogadkin, B. A.	93
de Buhr, Johann	85	Dokopoulos, P.	85
de Certeau, Michel	31	Dol'nikov, G.	13
Decker, A.	104	Donova, Tsvetana	25
Decornoy, Jacques	37	Donskoy, K. V.	126
Defranoux, J. M.	96	Dooreest, T.	117
Degener, C. H.	118	Dorazil, E.	95
Degenhard, W.	104	Dorges, P. E.	125
Deilmann, W.	102	Dorman, I. V.	54
Dekhtyar', A.	113	Dorman, L. I.	54
Delbague, Jean-Paul	27	Dorner, K. H.	98
Delsman, A.	116	Dorofeyuk, S. K.	132
del Valle, Sergio	47	Dorokhov, Yu. V.	72
Demchenko, M.	2	Dorosz, Andrezej	19
Demcik, Z.	95	Dorstewitz, Guenter	117
Dementsev, V.	3	Dotsenko, N. Ye.	123
Demidov, V.	10	Doutreligne	39
Demin, G. I.	129	Douvry, R.	125
Dente, M.	73	Doychev, Atanas	51
Deplus, C.	97	Drals, G. A.	112
Derdeb, B.	35	Dranevich, Ye. P.	79
Dergachev, N.	49	Dravin, A. B.	121
Derkach, V. P.	81	Drigo, G.	106
Deryapa, N. R.	59	Dubcek, Alexander	23
Deschamps, Jacqueline	73	Dubose, G.	122
Deshe, Mikhael	34	Dubovik, A. V.	71, 127
de Souza, R. Pimental	108	Dubrovin, Ye. D.	59
Devacht, A.	122	Dubsky, B.	94
Devedzhiev, Marin	51	Duchon, F.	51
de Witte, G.	96	Dudorov, N.	49
Deylin, A. D.	15	Duel', M. A.	113
Diehl, E. J.	135	Duffaut, F.	125
Diehl, Ernst	23	Dukado, Noe	41
Diesperov, V. N.	135	Dul'man, A.	112
Dietrich, E.	125	Dul'nev, G. N.	128
Dietzel, A.	137	Dumas, M. F.	109
Dilung, I. I.	69	Dumov, V. I.	88
Dima, A.	26	Dunsky, V. Ye.	69
Dimeny, Imre	52	Duong Hong Dat	53
Dimitriyev, A.	141	Duquesne, J.	84
al-Din, Khalid Muhyi	33	Dussault	40
Dityakin, Yu. F.	140	Duzan, Lucio	42
Diyab, Muhammad	32	Dvorak, R.	65
Djulizibacic, Tasa	76	Dvoretzskiy, Ya.	10
Djurekovic, Stjepan	120	Dyadyk, I.	50
Doan Trong Truyen	38	Dyatlova, N. M.	59

Dydina, L. A.	56
Dykhno, M. M.	59
Dymshits, Al.	10
Dzerdzeyevskiy, B. I.	55
Dzhumaliev, Boris	51
Dzygalo, A. I.	123

- E -

Ebeling, W.	136
Ebert, R.	102
Ebner, P. H.	102
Eckert, L.	66
Ecknig, W.	74
Ehrmann, P.	97
Eichhorn, F.	104
Eiichi Ando	138
Eirich, F.	74
El-Heivehi, Zaki	74
Elssner, L.	99
Elze, J.	101
Endo, K.	102
Engel'gardt, V.	10
Engels, W.	66
Epperly, W. R.	72
Ernischer, W.	126
Essunger, G.	120
Exner, H. E.	101

- F -

Fabian, K.	103
Fadiceva, Ye. N.	58
Fagan, F. I.	63
Fagerberg, B.	98
Faivovich, Jaime	45
Fakiolas, Tasos	9
Fallou, M.	85
Faltan, Samuel	23
Fal'tsman, V.	113
Faninger, G.	106
Fan'yan, D.	14
Fasman, A. B.	72
Fatkullin, M. N.	55
Favaro, J.	47
Fay, A.	119
Fedotov, K. V.	116
Fedotova, O. Ya.	70
Fedulov, L. V.	6
Feix, Leon	27
Fel'd, S.	87
Fel'dman, V. I.	84
Fel'dman, Ya.	4
Fel'dshteyn, Ya. I.	55,56

Feltyn', I. A.	69
Feng, Wen-lan	140
Ferhi, Youcef	51
Fesechko, V. A.	121
Fesenkov, V. G.	56
Feygin, S. A.	87
Fiala, J.	93
Fiebiger, A.	103
Fiehn, G.	106
Figuera, Leo	27
Filina, R. A.	91
Filipiak, Boleslaw	20
Filipovski, Gjorgji	81
Filippi, Emilio	42
Filippov, V. F.	140
Finke, M.	74
Finkelburg, W.	75
Florea, I.	24
Fodor, N.	21
Fofana, Bentzim	65
Fogaraz, Lajos	52
Fogel, Ya. M.	133
Fokht, A. S.	59
Fokin, Yu. A.	86
Foltyn, M.	94
Fonarev, Ye.	3
Ford, Joudon Major	41
Formanek, Jan	17
Forster, E.	98
Fradkin, G. M.	124
Fradlin, B. N.	110
Fraisse	39
Franz, W.	137
Franzke, Hans-Hermann	118
Frias, Ismael	44
Fridman, A. G.	89
Friedrich, A.	104
Friedrich, Hans-Peter	52
Frieser, E. P.	103
Frolov, L.	15
Fruehauf, Rene	17
Fujii, S.	108
Funke, Joachim	18
Funke, P.	104
Furrer, Gerhard	80

- G -

Gabelic, Andro	24
Gabitova, N. N.	133
Gahovich, A. A.	71
Galaktionov, B. V.	126
Galili, Yosef	31
Galonskiy, P.	5

Gal'pern, G. M.	60	Gnidenko, A.	2
Gaman, V. I.	130	Gnielinski, V.	136
Gambeta, Vangjush	22	Goetz, J.	95
Ganchev, Todor	22	Goldenberg, S. A.	139
Garadzha, V.	9	Golikov, A. Ye.	88
Garam, Jozsef	2	Golikov, V.	9
Garetovskiy, N.	4	Golovanova, N. A.	115
Garvan, Josip	21	Golovchenko, E.	9
Gasparyan, Yu. M.	59	Golovchenko, G.	6
Gassama, Makhily	30	Gol'tsova, L. F.	70
Gaud, Michel	29	Gommel, G.	101
Gauzner, N.	9	Goncharov, N. Yu.	123
Gavelya, S. P.	127	Gonor, A. L.	133
Gavranke, V. V.	130	Gontea, I.	68
Gavreau, Vladimir	88	Gonzalez Manet, Enrique	143
Gavrilenko, V.	116	Gonzalez Toledo, Felipe	46
Gavrilyuk, V. V.	123	Gorbenko, I. G.	113
Gavrovic, M.	22	Gorbunov, G. M.	139
Gaydayev, P. A.	77	Gorchakov, P.	14
Gaydialis, V. I.	127	Gordeyev, A. V.	77
Gayevskiy, A.	5	Gorev, K. V.	89
Gazheli, Lulezim	25	Gorobets, V. G.	81
Geller, L.	5	Gotlib, A. D.	90
Gel'man, A. S.	111	Gotze, H.	100
Genin, A. M.	59	Goureaux, P.	96
Genri, Ernst	10	Gradmann, Ulrich	137
Georgescu, Scarlat	81	Grafen, H.	99
Georgiev, Genadi	51	Grass, E.	103
Gerard, P. G.	97	Graupner, R.	80
Gerasimenko, Yu. N.	112	Grebnev, A.	6
Gerasimov, I.	9	Grechko, A. A.	9
Gerasimov, I. V.	70	Grechukhin, V. V.	78
Gerlach, H.	98, 105	Grecov, D.	108
	118	Grenishin, S. G.	121
German, M. A.	57	Griffiths E., Harold	47
Geskin, S. S.	69	Grigorjeva, L. F.	95
Gheorghiu, Sterian	21	Grigoryan, D. M.	131
Gilio, Maria Ester	44	Grigoryan, S. S.	131
Gimpelson, V. G.	133	Grigor'yev, B. P.	93
Ginzburg, D. B.	92	Grigor'yev, V. G.	122
Ginzburg, I. P.	126	Grigor'yev, Ye.	50
Giosan, N.	52	Grigor'yev, Yu. Ye.	87
Girard, Herve	141	Grigor'yeva, Yu. G.	124
Gisin, B. V.	130	Grishmanov, I. A.	115
Gjoni, Xhelil	22	Grishmanova, N. I.	134
Glagolev, A. I.	128, 133	Grisson, Bruno	137
Glas, P.	136	Grochowski, R.	25
Glazkova, A. P.	140	Groysman, L.	4
Glazunov, A. A.	86	Grvia, M.	76
Glezi, S.	95	Grumbach, H.	96
Gliki, N. V.	56	Grungo, G.	106
Glintic, Milenko	76	Grushko, Ya. M.	60
Glukhov, V. G.	57	Gruzdev, B.	5
Glukhov, V. M.	64	Gruzdev, V. N.	139
Glushko, V. P.	140	Grzybowski, Wacław	20

Gubanov, V. Ye.	115
Gubarev, S. M.	140
Gubermann, Sh. A.	79
Gubinskiy, K. I.	6
Gudima, K. K.	130
Gudkov, V.	8
Gudimov, A.	1
Gudinov, N.	7
Gudovich, N. N.	110
Guerlet, J. P.	73
Guerra, Adriano	26
Guerrieri, A.	106
Gugel, E.	103
Guillemaut, A.	79
Guinier, A.	96
Guley, G. G.	91
Gulkanyan, G. R.	59
Gurevich, Yu. G.	90
Gurovich, V. Ts.	134
Gurovskiy, N. N.	62
Gus, M.	15
Gusarov, V. V.	139
Gushchina, L. A.	56
Gus'kova, A. K.	61
Guss, S.	102
Cutierrez, Gabriel	46
Gutyrya, V.	142
Guzov, S. G.	88

- H -

Hadert, H.	103
Hadni, Armand	73
Hagberg, Hilding	28
Hagen, W.	75
Hager, Kurt	24
Hagihara, R.	68
Hahn, B.	103
Hallerman, J.	124
Hallet, G.	96
Halon, E.	143
Halperin, Haim	31
Hamdi, Jamal	33
Hamrush, 'Ala' Ahmad	33
Han Hyong-il	37
Hanci, J.	95
Hara, Y.	107
Hartl, W. A. M.	137
Hary, Bela	19
Hasegawa, M.	108
Hashkul', V. K.	64
Hass, K.	74
Havalda, A.	94
Heilmann, H. G.	88

Heinze, G.	74
Hekmat, Hasan Ali	35
Hendus, H.	74
Hengerer, F.	104
Henke, F.	100
Henkel, O.	99
Henry, A.	65
Hermansson, C. H.	28
Hermes, J. S. da Fonseca	47
Hernandez Parker, Luis	42
Herrero, J.	53
Hesse, C.	123
Hesselt, F.	101
Hett, O.	66
Hideomi Matsuzaki	138
Ho Chi Minh	39
Ho Van	35
Hoang Minh Giam	39
Hoch, P.	94
Hochstetter, W.	85
Hofer, F.	102
Hoffmann, A.	98
Hoffmann, Nieczyslaw	120
Hoffmann, Von H.	67
Hofherr, K.	117
Hollman, G.	58
Holstein, C.	96
Homann, H.	73
Homann, Wilhelm	18
Honchar, Oles	10
Horani, M.	136
Hori, Masa-Akira	67
Horiguchi, J.	68
Horikawa, K.	107
Hoshino, K.	107
Hossli, W.	118
Houska, Karel	17
Hoyer mann, K.	125
Hu, Ch'ang-ming	135
Huang, Wei-yuan	135
Huber, H.	98
Huet, J. J.	96
Huglo, B.	125
Hummitch, W.	99, 103
Huu Duc	53

- I -

Ichihara, M.	107
Ignar, Stefan	52
Ignat'yev, A.	13
Ignat'yev, M. B.	120
Igol'nikov, G.	8
Iliev, Ivan	16

Iliev, Lyubomir	110
Ilin, I.	141
Il'ina, K. M.	6
Imyanitov, I. M.	55
Ingul'tsov, V. L.	127
Ioans, V. A.	6
Iodovskiy, S. A.	89
Ionescu, N.	81
Iordache, I.	108
Ipatenko, N. G.	64
Isayenko, V. I.	134
Isayev, Ye. N.	78
Ishchenko, Yu. S.	111
Ishii, M.	107
Ishii, S.	107
Ismailov, A.	71
Istratenkov, A. N.	93
Ivan'kov, M.	8
Ivanov, A. V.	60
Ivanov, G.	51
Ivanov, I.	13
Ivanov, Nikola	142
Ivanov, O.	6
Ivanov, S. K.	73
Ivanov, V. Ye.	88
Ivanov, Ye.	141
Ivanov, Yu. R.	113
Ivanova, R. Ya.	92
Ivanshchenko, M. M.	128
Ivlev, A. A.	125
Iwaszkiewicz, A.	86
Iyerusalimskiy, A. P.	64
Izmanova, T. A.	70

- J -

Jacenkow, Boleslaw	80
Jagielski, M.	52
Jakl, Frantisek	17
Jakubowski, Zenon	120
Jammers, H.	101
Janda, E.	94
Janda, Z.	93
Janecek, Otto	27
Janssen, Klaus	119
Jarocki, Walenty	80
Jaros, J.	95
Javid, Mohammad-Ali	34
Jawhar, Hasan Muhammad	34
Jeglitsch, F.	102
Jehle, D.	105
Jenei, Gyorgy	24
Jenik, J.	94
Jerie, J.	140
Jestl, K.	123

Jevdjovic, Melanija	52
Joannes, Victor	27
Jochmann, F.	100
Johnson, Raymond	31
Jorgensen, Claus	
Ingemann	26
Josifovic, Mladen	76
Jovanovic, D. S.	120
Junajovec, J.	18
Junghans, D.	100
Jungmeister, H.	85
Jurko, Dregutin	52
Just, E.	136

- K -

Kabakov, G. I.	116
Kabanov, V. V.	129
Kabelac, J.	58
Kadushin, A. A.	95
Kadyrov, Z.	3
Kaganov, V. Yu.	90
Kajihara, T.	68
Kalanch, Ya. V.	69
Kalandarov, G.	50
Kalashnik, M.	14
Kalashnikova, N. F.	90
Kalembka, Slawomir	108
Kalinin, Ye. K.	132
Kaltwasser, Heinrich	66
Kamach, Yu. Ye.	131
Kamimura, Y.	75
Kaminskiy, A. A.	131
Kamps, P.	118
Kamshalov, A.	15
Kanapa, Jean	27
Kanayev, A. A.	111
Kantor, S. A.	139
Kapitsa, M. S.	10
Kaplan, Istvan	19
Karaban, V. N.	132
Karabanov, D. N.	70
Karapet'yants, M. Kh.	71
Karatayev, G. I.	78
Kard, P.	82, 128
Karlinskiy, S. L.	115
Karmazina, L. N.	110
Karnaukhov, S.	86
Karpenko, O. M.	142
Karpov, V. P.	139
Karpova, O. A.	127
Karpova, Ye.	1
Karpukhin, G. I.	60
Karrer, P.	67
Kartavenko, N. T.	62

Kartuzhanskiy, A. L.	121,133	Kienle, H.	137
Karzhavina, Ye. N.	130	Kierczynski, T.	20
Kashin, A. A.	55	Kim, I.	5
Kashkin, Yu. F.	82	Kim, K. I.	131
Kasleva, L. I.	57	Kim Ki-yong	52
Kaspar, J.	96	Kim, V. S.	91
Kaspshitskaya, M. F.	110	Kimura, S.	68
Kasser, K.	117	Kindelan, J. M.	109
Kasten, Fritz	58	Kiparisov, S. S.	90
Kas'yan, I. I.	60	Kirichenko, N.	2
Katskova, O. N.	135	Kirigin, Bozidar	58
Katsyka, A. P.	55	Kirillin, A. V.	131
Kautz, H.-R.	98,105	Kirillov, P. L.	89
	118	Kirsanov, L. M.	93
Kavalyayskas, R. A.	84	Kirsch, H.	119
Kawahara, T.	107	Kishima, S.	107
Kawamura, K.	107	Kislyakov, A. G.	56
Kazakov, K. P.	12	Kiyko, I. A.	113
Kazantsev, B. I.	125	Klejman, Herman	138
Kazharskiy, V.	13	Kligman, I. N.	15
Kazuo Ota	119	Klima, R.	135
Kazuo Tsundoa	86	Klimovich, G.	7
Keck, Joern	18	Klykov, Yu. I.	81
Kedrov, B.	142	Klyukin, N. K.	84
Kegel, K.	123	Klyushnichenko, Ye. Ye.	7
Keller, C.	125	Klyuyenkova, Ye. I.	121
Kellerzi, Abdyl	16	Klyuyev, N. I.	82
Kelly, J.	97	Knapp, O.	106
Kersten, M.	106	Knappwost, A.	143
Ketebayev, K.	5	Knezevic, Pavle	53
Kettel, E.	85	Knopp, Andras	24
Khabibulina, R. K.	91	Knublauch, K.	101
Khachatryan, A. B.	63	Knyazev, D. A.	125
Khachaturov, T.	8	Knyazev, G. V.	142
Khakimov, M.	2	Knyazyuk, V.	114
Khaliletskiy, G.	2	Kocelj, Mirko	48
Khalturin, F.	13	Koch, J.	67
Khamis, Saliba	34	Koch, K. H.	105
Kharakhorin, F. F.	128	Kochemasova, Z. N.	59
Kharitonov, V. F.	116	Kocho, V. S.	89
Kharlampovich, G. D.	70	Kocka, V.	135
Khatsyanov, F. G.	115	Kodyukov, V. M.	124
Khazov, L. L.	134	Kohl, G.	85
Kheinman, A. S.	122	Kohtz, D.	103
Khelemskiy, M. Z.	50	Kok, I. P.	59
Khesin, G. L.	132	Kokhanov, V. V.	83
Kheyfets, S.	3	Kolev, Miladin	16
Khiari, A. R.	30	Kolomakin, G. A.	64
Khinskiy, P. D.	89	Koloshin, A. P.	6
Khitrov, S. D.	114	Komar, A. P.	126
Khlynov, V. V.	90	Komin, A. V.	126
Kholostov, D. I.	123	Komissarov, D. A.	59
Khorchanski, Gyunter	9	Komlik, V. I.	1
Khor'kov, A. S.	87	Koncek, Mikulas	58
Khutoretskiy, G. M.	86	Kondakova, N. V.	61

Konecny, Cestmir	17	Kozlovtssev, F.	50
Konig, L. A.	125	Kozyrev, S. P.	130
Konig, W.	101	Krabbe, Wilfried	117
Kononenko, A. A.	60	Kraeupl, Guenther	26
Kononenko, A. F.	49	Kraft, G.	74
Kononova, M. M.	78	Krageloh, E.	117
Konopleva, N.	95	Krasinskiy, G. A.	54
Konovalev, A. Ye.	129	Krasnobayev, N.	113
Konovaleva, L. D.	84	Krasnopol'skiy, V. A.	55
Konstantinov, B. P.	56	Krause, H.	118
Konstantinova, Kana	51	Krause, Hugo	74
Konstantinovskiy, D.	9	Krautmacher, H.	103
Konya, Albert	143	Kravtsov, L. A.	134
Kootz, Th.	105	Krayev, O. A.	126
Kopeck, Jakub	120	Krejci, Jaroslav	17
Kopenhagen,	25	Kremer, H.-E.	104
Koppich, C.	120	Kremp, D.	136
Kopytin, A.	11	Krestinskiy, K. A.	87
Koranyi, Gyorgy	119	Krestovnikov, A. N.	131
Korb, Gunther	58	Kretschko, J.	131
Korchek, Sh.	95	Kreyn, S. G.	110
Korenini, Janez	86	Kriechbaum, K.	85
Kornev, Yu. N.	110	Kriegel, H.	66
Korolev, V. I.	48	Kriegsmann, H.	74
Korosec, Vekoslav	88	Krinskiy, A. A.	139
Korovina, Z.	8	Kristoffel, N. N.	132
Korshak, V. V.	71	Krivel', A.	6
Korsun, A. G.	134	Krofta, Otakar	17
Kortunov, A. K.	114	Krsmanovic, L.	138
Korzhavin, N. P.	93	Kruchinin, A. M.	129
Kosachevskiy, V. I.	86	Krug, W.	137
Kosolapova, T. Ya.	69	Krumbiegel, D.	51
Kossov, O. A.	142	Krupin, A. V.	131
Kost, A. N.	69	Kryndin, A. N.	57
Kostetskiy, B. I.	113	Ksenofontova, T. S.	69
Kostin, V. N.	77	Kubiczek, Franciszek	19
Kostin, V. V.	110	Kudinov, V.	50
Kotkovskiy, Ya.	6	Kudlicka, E.	116
Kotlukov, K.	14	Kudryavtseva, N. G.	63
Kotov, V.	8,12	Kuhnelt, G.	99
Kotov, Yu. A.	127	Kuks, I. M.	121,122
Kotowski, W.	74	Kul'chitskiy, A. I.	86
Kottler, F.	111	Kulikov, I. A.	87
Kovalevskiy, N. V.	54	Kulikov, V.	15
Kovan, I. A.	127	Kulish, Ye. Ye.	124
Kowalczyk, Zygmunt	80	Kull', Ye.	114
Kowalewski, Mirosław	120	Kul'nitskiy, Ye.	12
Koyanagi, S.	76	Kulsar, Kalman	26
Kozhar, V. I.	115	Kul'vets, P.	5
Kozima, Y.	68	Kulya, V. I.	84
Kozin, H. S.	135	Kunes, J.	94
Kozlov, L. A.	88	Kuntze, Ernst	117
Kozlov, P. M.	92	Kunze, E.	99
Kozlov, V. F.	62	Kupfer, R.	100

Kurachenkova, L. M.	92
Kuritsyna, D. S.	63,116
Kurkin, M. I.	127
Kurotchenko, V.	5
Kushtin, I. F.	120
Kussmann, Thomas	16
Kuusi, T.	66
Kuvshinskiy, Ye. V.	91
Kuz'min, S. M.	64
Kuznetsov, A. A.	48
Kuznetsov, A. L.	139
Kuznetsov, N. G.	13
Kuznetsov, V. F.	84
Kuznetsova, L. M.	89

- L -

Ladoux, G.	100
Lagrula, J.	80
Laining, M.	48
Lakhno, L.	11
Landa, S.	70
Landau, Benjamin	34
Lang, J.	58
Lange, G.	101
Langemak, G. Ye.	140
Langerweger, J.	99
Larionova, L. V.	63
Lask, G. W.	104
Lastochkin, B. A.	58
Latinskiy, S. M.	123
Latsis, O.	4
Latyshov, Y. V.	91
Laudenberg, H. J.	105
Lautenbusch, G.	98
Lavrenenko, K. D.	87
Lavrinenko, D. D.	64
Layus, L. A.	91
Lazarenko, Ye.	113
Le Binh	38
Le Cu	39
Le Dien	38
Le Thanh Nghi	38,40
Le Thi Xuyen	39
Le Viet Huong	35
Le Xuan Thi	53
Lebedev, A. D.	129
Lebedev, K. P.	91
Lebedev, V. I.	141
Le Bras, A.	97
Lebsak, V. L.	82
LeClere, J.	26
Legat, A.	100,102
Legeza, M. I.	62

Lehmann, G.	67
Lehoczký, L.	52
Lehr, H.	104
Lehr, P.	73
Leiker, M.	118
Lein, V.	7
Leiss, F.	141
Lekhtman, F.	7
Lemmleyn, G. G.	79
Lentin, Albert-Paul	46
Lenze, F. J.	18
Leonardini, Jean-Pierre	27
Leonhardt, F.	117
Leonidov, N.	48
Leonov, A. A.	141
Leontovich, M.	129
Leont'yev, A. I.	133
Leroy, L.	140
Lescure, Francois	27
Letyagin, V. A.	127,139
Levashev, A.	16
Levchenko, V. Ya.	133
Levenko, A. A.	57
Levente, Mihail	21
Levi, S. M.	133
Levin, A. A.	128
Levin, M. N.	111
Levina, P. I.	121
Lewalski, J.	20
Lewinski, Piotr	19
Leybzon, B.	10
Ihamsuren, G.	38
Li Ming-hua	35
Liao Tung-Hsien	143
Liebau, F.	75
Limberg, Ye. A.	132
Lindberg, G. Yu.	62
Ling Zeng Seng	40
Linsel, Eberhard	117
Lipski, J.	141
Lipskiy, Yu. N.	54
Lisitsyn, A. P.	79
Listov, P.	50
Litvin, M.	4
Liu Yueh-shen	36
Libneh, Eliezer	34
Ljunberg, I.	103
Lobanok, A. G.	60
Locsei, B.	106
Logachev, Yu.	115
Logvinenko, A. G.	112
Loiseau, Henri	136
Lomakin, V. A.	126

Lomako, P. F.	8,92
Loorits, V. A.	55
Lorenz, K.	58
Lorenzelli, Robert	125
Loriers, H.	96
Lorin, M.	85
Lorincz, F.	67
Loseva, N. A.	76
Lowy, R.	65
Lozinskiy, M. G.	89
Loznevaya, M.	7
Luft, G.	102
Lukaszewicz, K.	68
Lukin, V. N.	142
Luk'yanov, G. A.	134
Lunev, V. V.	134
Luptak, S.	17
Lutgendorf, Hans O.	117
Lutskiy, A. Ye.	71
Luu Quy Ky	38
Luzgan, S.	50
L'vov, N. S.	88
Lyamin, A. A.	87
Lyando, A.	3
Lyandzbergas, K.	62
Lyashenko, V. F.	83
Lydyga, J.	101
Lyselius, A.	109
Lyul'ka, V. A.	135
Lyuttsau, V. G.	89

Macsari, Karoly	19	Masumov, V. I.	3
Magomedov, K. M.	128	Masuo, F.	15
Maillet, E.	88	Matern, Hermann	24
Majewski, Stanislaw	19	Materna, Jan	65
Makarov, G. F.	60	Matiushenko, M. M.	92
Makarov, G. T.	81	Matrosoy, V. M.	109
Makeyev, A. I.	121	Matusov, A. L.	62,77
Maksimov, M.	14	Matveyev, B. I.	92
Maksimov, G. N.	111	Maurer, K. L.	99
Malashenko, S. V.	114	Maurin, L. N.	134
Malek, P.	67	Mayer, H.	100
Malesevic, Niko	96	Mayevskiy, V.	6
Malherbe, G.	116	Mayzel', L. L.	8
Malina, Karel	88	Mazanov, M.	6
Malkov, A.	1	Mazhayev, F.	12
Malkov, M. P.	130	Mednikova, Ye. S.	57
Malochinskaya, A. N.	123	Medvedovskaya, L. V.	132
Mal'tseva, V. S.	91	Meisner, Edward	19
Maly, V.	95	Meixner, J.	138
Malykhin, V. M.	60	Mel'bard, S. N.	111
Malyugin, V.	7	Mel'komov, S.	49
Mamy, J.	80	Mel'nichuk, P. A.	7
Manastieanu, Stefan	20	Mel'nik, T. S.	70
Mandi, Sokrat	22	Mel'nikov, M. A.	127
Mandry, P.	96	Meltzheim, C.	97
Mangold, Georg	140	Menges, G.	101
Man'ko, Ye.	6	Menshutkin, V. V.	60
Manucharova, I. F.	71	Meretskov, K. A.	13
Manukyan, B.	114	Mershin, A. P.	48
Marek, Franz	28	Merten, L.	137
Marfunin, A. S.	78	Meshkov, A.	1
Marinescu, Mihai	21	Metlitskiy, L. V.	61
Marinov, Aleksandur	116	Meyerovich, V.	3
Marinov, Khr.	51	Meyne, K.	118
Marinov, R. A.	82	Mezhistrov, M. S.	91
Mark, H.	74	Michalski, F.	101
Markevich, N. N.	127	Mieszczankowski,	
Markiewicz, K.	68	Mieczyslaw	20
Markov, M.	116	Mihailovic, Steven	22
Markovic, J.	21	Mikero, A. V.	116
Martin, Henri	27	Mikhailov, M. I.	72
Martinez, A.	73	Mikhailov, N. V.	92
Martinez, Cristobal	47	Mikhaylov, G. A.	84,135
Marty, J.	97	Mikhaylov, V.	4
Marx, W.	118	Mil'ko, V.	9
Masataka Sugiyama	119	Millas, Herman	40
Maschler, H.	102	Millian, K.	105
Mascre, M. C.	135	Millionshchikov, M. D.	124
Masek, V.	72	Minervin, V. Ye.	57
Maslennikov, A. S.	77	Minina, Ye. G.	62
Maslennikov, V.	3,4	Minkevich, I. G.	121
Maslov, Yu. P.	71	Minkov, V. A.	87
Massazza, Franco	75	Mints, R. I.	130

Mirkotan, S. F.	79
Mironov, K. A.	115
Mironov, O. N.	128
Miroshchenko, S.	3
Mirtskulava, Ts. Ye.	89
Mirushina, L.	4
Mishakova, M. V.	133
Mishchenko, Yu. I.	89
Mishin, V. M.	54
Mishutin, V. A.	88
Miskovic, M.	69
Mitran, Ion	24
Mitrega, Jan	81
Mitrofanov, A.	114
Mitrofanov, V.	3
Mitsche, R.	102
Miyamichi, K.	76
Miyoshi, E.	108
Mizuguchi, J.	75, 76
Mobius, H.-E.	104
Mocanu, Ion	20
Modogoyev, A.	9
Mohadjer, K.	79
Moisiu, Vangjel	22
Mokievskiy, V. A.	78
Molchanov, A. P.	90
Mollenkamp, F. W.	101
Molnar, Laszlo	24
Molotkov, A.	48
Monakhov, N. M.	129
Mora Valverde, Manual	43
Moravec, J.	95
Morelj, M.	68
Morgand, P.	96
Morozov, L.	112
Mortseva, G. I.	129
Moser, A.	100
Moskovich, Yu. L.	70
Mostoslavskaya, V. M.	127
Mostovnikov, V. A.	134
Motoyama, M.	107
Mouriquand, C.	65
Much, Alfred	86
Muchinskiy, D. Ya.	87
Mueller, Horst	117
Muhammad, Hasan 'Abbas	34
Muhlberger, H.	105
Muhri, Franz	28
Mukhomorov, V. L.	90
Muller, K.	102
Muller, Otto	117
Muller, R.	118
Muradov, A.	55

Murakozi, Erno	18
Murashov, S.	9
Muratkhodzhayev, V.	2
Muratova, B. L.	128
Muresan, T.	52
Murray, George	41
Mursi, Fuad	33
Muslin, Yevgeniy	84
Mustel, Ye. R.	54
Myers, H. P.	109
Mzhavandze, V. P.	11

- N -

Nadezhdin, D.	141
Naidich, Yu. V.	132
Napolitano, Georgio	28
Narkhov, V.	49
Nauvib, M.	117
Navier, M.	73
Navolotskiy, A. S.	49
Nazarov, M.	1
Nebol'sin, A.	14
Nechayevskaya, M. R.	61
Nedel'ko, A. A.	129
Nedoseyev, S. L.	83
Negre, Louis	30
Negrescu, T.	19
Nekrosov, A. M.	9
Nekrasov, V.	116
Nesterenko, G.	121
Nesterikhin, Yu. Ye.	100
Nesterovich, V.	49
Neumann, A.	103
Ngo Duy Dong	54
Nguyen Con	35
Nguyen Duc Tam	35
Nguyen Nguyen Phong	130
Nguyen Thanh Binh	35
Nguyen Thanh Ha	38
Nguyen Thi Dinh	38
Nguyen Van Hieu Dubna	138
Nguyen Van Suu	53
Nguyen Van Tran	35
Nick, Harry	18
Nicodemi, W.	97
Nicolescu, A.	76
Nicot, Olivier	27
Niculescu-Mizil, Paul	24
Niedziela, M.	20
Nielsen, Lauge F.	109
Nienburg, H.	75
Nifantev, Ye. Ye.	71
Niggermann, J.	80
Nikiforov, A.	61

Nikiforov, A. S.	114
Nikiforov, M.	1
Nikitin, I. V.	129
Nikitin, V. V.	84
Nikolayenko, Ye. G.	91
Nikolayev, G. A.	111
Nikolayev, Yu. M.	55, 125
Nikolayeva, G. I.	128
Nikol'skiy, I. D.	79
Nikonov, V. N.	56
Nikulin, I. P.	63
Nishiyama, M.	108
Niwa, K.	108
Nizhnikov, S.	112
Noarov, A. F.	87
Noissiki, I.	107
Noma, K.	107
Norru, Michel	31
Noseda, G.	119
Novak, J.	94
Novichenko, Leonid	10
Novikov, G.	84
Novikov, I. A.	133
Novikova, A. P.	61
Novozhikov, N. M.	111
Novychenko, Leonid	11
Nudel'man, R. B.	132
Nunez, Carlos	41
Nuriyev, Z.	49
Nurmagambetov, S.	14
Nurok, G. A.	77

- O -

Oberhauser, A.	101
Obolenskiy, N.	82
Oganesyan, V. Kh.	69
Ogibalov, P. M.	113
Okara, V. G.	111
Okazaki, M.	107
Okhotsimskiy, D. Ye.	141
Okhremenko, N. M.	131
Okhrimenko, Ya. M.	115
Okonov, Ye.	124
Okuniewski, Jozef	52
Olaf, Jorn	117
Olajos, Arpad	18
Olsen, Erley	37
Ono, N.	119
Opera, Gh.	120
Orlova, N. G.	82
Osherov, S. Ya.	140
Osipov, L. N.	139
Os'kin, P.	3
Osorin, V. I.	110

Ostojic, Kamenko	76
Otto, L.	122
Ovechkin, T. G.	122
Ovisenko, D. Ye.	127

- P -

Pagava, S. T.	57
Pahutova, M.	95
Pak Son-gyun	37
Pakhomov, I. Ye.	70
Pakshver, A. B.	115
Pakshver, Ye. A.	91
Palatnik, L. S.	70, 128
Palazuelos, Raul	53
Pali, Alexander I.	25
Pal iatici, P. L.	106
Panin, V. V.	89
Pankratov, V. F.	92
Pankrushin, V. K.	78
Panshin, Yu. A.	71
Papadakis, S.	122
Paplov, A. A.	109
Pardi, Imre	19
Parfenov, V.	6
Parin, N. V.	59
Parot'kin, I.	14
Partmann, W.	66
Pashko, Eleni	16
Paslawski, Zbigniew	81
Passaquin, J.	85
Passon, B.	105
Pastushenkov, L. V.	60
Patasse, Ange	117
Patet, J.	65
Patrakeyev, N.	114
Patrunov, G. G.	83
Paul, H.	136
Pavlenko, A. S.	140
Pavlov, V.	4
Pavlov, V. V.	139
Pavlova, G.	7
Pavolini, Luca	28
Payusov, K.	12
Pcelko, I. G.	56
Pchelkin, V. F.	83
Ped, D. A.	57
Pedak, A. M.	83
Pegov, V. G.	90
Peiter, A.	105
Peknik, Karol	25
Pellerin, Francois	27
Pelliccioni, M.	138
Pena, Juan P.	41
Pena Cabrera, Raul	44

Penczek, P.	76
Pens, I. Sh.	8
Pereira, Hilario Luis	44
Pereletov, I. I.	132
Perrier, F.-J.	65
Perron,	40
Pershina, Ye. V.	126
Pershits, R. Ya.	115
Pertsovskiy, N. Z.	89
Pestel, K.	100
Petersil'yev, I. A.	70
Petkevich, G. I.	78
Petr, J.	93
Petrauskayte, V.	62
Petrenko, A. I.	121
Petrov, I. G.	72
Petrov, Ye.	49
Petrov, Yu. P.	63
Petrova, N. A.	122
Petrovskiy, A. D.	78
Petukhov, V. G.	140
Pfau, H.	137
Pfeffer, W.	66
Pham Duong	38
Pham Ke	40
Picard, Claude	65
Pierrard, H.	97
Pietsch, W.	98
Pigorini, F.	67
Pilc, A.	76
Pinto, Antonio Branco e	41
Pinus, N. Z.	58
Pirityi, Otto	19
Pirnay, F.	65
Pirvu, Virgil	20
Pisarski, Grzegorz	20
Plateau, J.	97
Platonov, A.	49
Pletnev, V. D.	54
Pluhar, J.	94
Pluzhnikov, A. I.	129
Plyavin, I. K.	131
Pobedkonostsev, Yu.	141
Poboril, F.	94
Poch, W.	137
Podvigin, V. G.	50
Podymin, V.	5
Pohl, G.	106
Poincare, Henri	111
Pokhvisnev, A. N.	90
Pokorniy, V.	93
Pokrovov, V.	50
Polasek, J.	135
Polozova, L. Ya.	62
Polukhin, V. P.	90

Polyak, B. L.	63
Polyakova, G. N.	133
Pomykayev, I. I.	48
Ponomarev, V. N.	77, 78
Popcza, A.	101
Popadyuk, K.	2
Popara, Nedjeljko	124
Popescu, Nicolea	81
Popov, A.	41
Popov, Konstantin	125
Popov, M. E.	91
Popov, V. A.	127
Popov, V. D.	92
Popov, Ye. B.	71
Poppi, R.	73
Pose, H.	125
Pospelov, D. A.	81
Potacny, Miroslav	22
Povh, D.	86
Povolotskiy, D. Ya.	90
Pozdnyakov, V. V.	88
Pozhela, Yu. K.	124
Pozo, Alberto	81
Pranch, A. S.	91
Prattico, Franco	14
Preobrazhenskaya, N.	6
Prevot, F.	136
Pribyl, J.	95
Prokof'yev, M. A.	15
Prokopov, V.	4
Propoy, A. I.	142
Protasov, V. R.	79
Pruss, P. Kh.	122
Prutovkykh, P.	1
Pruzner, S. L.	82
Pshenichnyy, B. N.	142
Pshenichnyy, V. D.	87
Pukhov, G. Ye.	84
Puyo, M.	73
Pyatnitsyn, B. N.	58

- Q -

Quang Hong	53
Quelhas, A. A.	30
Quercioli, Elio	28
Quey, F.	85
Quijano, Jose Manuel	44

- R -

Rabinovich, A. L.	91
Rabinovich, V. R.	114
Rachinskiy, I. D.	62
Radyuk, M.	11

Raitviir, A. G.	61
Rajtora, V.	75
Ramadan, Muhammad Ahmad	32
Ramzayev, P. V.	63
Randjelovic, Viden S.	53
Ranny, J.	95
Rapoport, A. Ya.	92
Rashidov, Sh. R.	50
Raskin, Sh. Sh.	126
Rassmann, G.	99
Raupach, Hans	18
Razevig, V. D.	110
Rebane, K. K.	55
Rehfeldt, Hans	118
Reider, W.	105
Reinisch, I.	73
Reintsma, L. M.	96
Renne, V. T.	87
Reshetov, N.	5
Reshetzikhov, V. V.	12
Reumuth, H.	137
Reut, V.	50
Reuter, B.	106
Reybel, I. M.	71
Reznikov, G. B.	82
Richter, Hans	80
Riedler, Heribert	119
Riese, W. A.	99
Rimaytis, Yu.	15
Rimmel, V.	95
Rinich, R. F.	99
Ringels, W. K.	125
Rivolier, J.	65
Riyadh, Wajdi	141
Robertson, J. L.	72
Rode, A. A.	78
Rodriguez, Hector	44
Rodriguez, Javier	42
Rodriguez Eslava, Luis Eduardo	47
Roesner, P.	85
Roginskiy, O. G.	139
Rohde, G.	89
Rohrbach, C.	101
Rojas Pinilla, Gustavo	45
Romadin, K. P.	88
Romanov, A. K.	81
Romanov, A. N.	89
Romanov, U. A.	56
Romas, A.	112
Rompe, R.	137
Ronning, M.	120
Rosenthal, H.	66
Rosnitskiy, O. V.	84

Rosolovskiy, V. Ya.	129
Rossegger, R.	99
Rotar, F.	14
Roth, Rainer	58
Rotmistrov, P. A.	14
Rowicki, Jozef	20
Rozenfel'd, L. M.	92
Rozhkov, M. G.	82
Rozkwitalski, Z.	138
Rozmanas, A.	7
Rubin, A. B.	59,60
	61
Rubinov, A. N.	134
Rudakov, A. P.	91
Rudareanu, Marina	21
Rudnev, K. N.	6
Rudolph, J.	137
Rudzit, R. B.	112
Ruiz de Zarate, Mary	43
Rukosuyev, G.	7
Rumer, B.	8
Rumyantsev, A.	9
Rusinaru, Ion	21
Rustayeva, N. Kh.	91
Ruta, L.	7
Rutskoy, A. G.	116
Ruttman, W.	103
Ruzavina, Ye.	2
Ryaboshapka, P. P.	48
Ryabushin, A. V.	87
Ryasavy, D. L.	72
Rybalova, R. P.	140
Rybchenko, I.	6
Rymkiewicz, D.	68
Rypar, V.	125
Ryzhikh, N. P.	113
Ryzhikov, Ya. Ya.	89
Ryzhov, O. S.	134
Rzhiga, L.	141

- S -

Saad, Gabriel	43
Saarinen, Aarne	26
Sabatier, G.	80
Sadovnikov, A. V.	57
Safronov, L. A.	82
Sagatov, N.	51
Sagomonyan, A. Ya.	132
Saidov, M. S.	126
Sajak, E.	57
Sajo, J.	75
Sakamoto, M.	68
Sakhr, Abu	31
Sala, T.	96

Salganik, R. I.	60	Schulz, P.	137
Sallumak, Hasan	51	Schulze, A.	105
SamarSKIY, A. A.	134	Schurmann, E.	98, 104
Sameshima, Y.	108	Schvarts, A. G.	92
Sauokhin, M. V.	54	Schwarz, G.	100
Samsonenko, S. V.	84	Schwarz, W.	99
Samsonov, G. V.	103	Schwenk, W.	104
Samuelson, O.	109	Sedzimir, J.	105
Sanchez Lalehret, Rafael	40	Seeliger, D.	125
Sanders, A. F.	66	Seifert, Karl-Dieter	26
Sandler, L. B.	115	Seigewasser, Hans	23
Sanetra, Walerian	19	Senolic, Radule	21
Sapozhnikov, A. V.	87	Selivanova-Gorodkova, Ye. A.	59
Sapozhnikov, V. V.	79	Selva, Luis de la	43
Saraf, S. G.	55	Semendjajew, K. A.	110, 111
Sarakuz, N. K.	70	Semenov, A. P.	88
Sarkisov, S. A.	63	Semenov, N.	1, 114
Sarkisov, S. A.	76	Semenov, V.	49
Sarry, Brigitte	75	Semenov, V. K.	71
Sasiadek, M.	136	Semenovskaya, Ye. N.	63
Sastre, Bernardo	43	Semin, V.	8
Savchenko, A.	113	Semov, V. V.	113
Savenko, Ye. I.	77	Semyanovskiy, F.	13
Savin, G. M.	127	Senghor, Leopold	30
Savin, G. N.	131	Sentyurikhima, L. N.	92
Sazlund, Ricardo	41, 44	Sentyurin, Ye. G.	69
Scagnetti, Monique	140	Senyavskiy, S. L.	16
Schaefer, R.	104	Sepulveda, Carlos	40
Scharwachter, W.	86	Sepulveda Vergara, Carlos	40, 42
Scheel, H.	126	Serdyukova, A. S.	77
Schefe, G.	118	Serensen, S. V.	88
Schenck, H.	104	Sergeyev, N. V.	71
Schierhold, P.	99	Serkov, A. T.	100
Schilling, H.	101	Seth, P. L.	68
Schleifer, Abdullah	33	Sevalkina, N. A.	57
Schlinke, H.	86	Sevbo, P. I.	111
Schlunder, E. U.	136	Seve, Lucien	27
Schmidt, F.	98	Shabin, A. M.	128
Schmidt, T.	104	Shablitskaya, L. N.	110
Schmidtman, E.	98	Shablya, A. V.	133
Schmieder, J.	73	Shafer, Yu. G.	141
Schmithals, P. U.	103, 104	Shakhamanov, V.	4
Schneck, R.	106	Shalimov, V. P.	54
Schneeweiss, G.	101	Shamov, V. P.	60
Schneyder, Philippe	30	Shamuratov, Kh. A.	126
Schnieder, W.	100	Shanin, N. A.	110
Schoberl, A.	102	Shankin, P. A.	70
Schraudolph, M.	86	Shanta, I.	5
Schreiner, A.	104	Shapiro, A.	5
Schroeder, Fritz	26	Shapiro, G.	142
Schubert, H.	137	Shapovalenko, O.	3
Schulz, G.	136	Shashin, V. M.	128
Schulz, H.	74, 100	Shastin, I. V.	59
Schulz, H. H.	143		
Schulz, I.	102		
Schulz, Karl-Heinz	117		

Shastova, G. A.	123	Sirotinskiy, Ye. L.	82
Shavyrin, V. N.	112	Siskin, N. S.	55
Shchedrovitskiy, G.	15	Skachko, P. G.	83
Shchepetnov, R. V.	54	Skala, J.	94
Shcherbakov, M. P.	77	Sklyar, Y. Y.	61
Shchetlov, A.	5	Skopina, Z.	4
Sheberstov, V. I.	122	Skornyakov, A. I.	87
Shefer, N. I.	129	Skovoroda, K.	8
Sheffer, Ye. K.	56	Skozotsev, A.	12
Shelkovnikov, N. K.	79	Skripko, V.	7
Sherikh, M.	3	Skvortsov, A.	13
Shevchenko, Ya.	12	Slama, I. Z.	72
Sheverstov, V. I.	121	Slangen, Erika	118
Shevnin, A. D.	56	Slavin, O. K.	132
Sheyndlin, A. Ye.	127	Slobedenyuk, S. V.	60
Shigeyasu Akai	68	Slovinskiy, B.	124
Shikin, I.	10	Smakova, Ye.	2
Shimizu, M. Y.	76	Smekal, E.	65
Shiro Nakamura	67	Smerchinsk'ka, L. S.	64
Shiryashkin, V.	1	Smirnov, A. F.	115
Shishkin, N. S.	56	Smirnov, B.	50
Shishov, V.	12	Smirnova, N. P.	84
Shkol'nik, G. T.	113	Smyshlyayeva, L.	8
Shlyaf, T. P.	64	Snechkus, A.	10
Shlyamin, B. A.	79	Snejdar, M.	93
Shmidt, A. O.	82	Snimshchikov, N.	49
Shnol, Ye. Ye.	135	Snopkov, V. G.	56
Shogo Yoshikawa	138	Sobotka, J.	93
Shopov, D.	73	Sochava, V. B.	77
Shten', A. S.	124	Sochilina, A. S.	141
Shteynvol'f, L. I.	132	Sokolik, A. S.	139
Shtil'man, M. I.	70	Sokolov, A. V.	76
Snukurov, I.	127	Sokolov, I.	5
Shul'ga, V.	87	Sokolov, M.	86
Shumanov, V. S.	131	Solodkin, V. Ye.	130
Shuntov, V. P.	64	Solokhin, Z. L.	139
Shur, M. G.	109	Solovev, V. S.	127
Shuvyrin, D.	14	Solovov, K. Ya.	87
Shved, M. M.	126	Solov'yev, V. S.	127, 139
Shvets, A. I.	133	Sommerkorn, G.	101
Shymyatskiy, B. Ya.	127	Somov, S.	12
Siber, Irwin	41	Sorokin, V.	3
Sicha, M.	94	Soskin, B.	1
Sichova, D.	94	Sosnina, Ye. I.	127
Sidikhmenov, V.	10	Soukup, Frantisek	17
Signarbieux, C.	136	Spieser, P.	68
Signate, Ibrahima	30	Spiegelberg, P.	109
Silberberg, S.	116	Spirkin, A.	58
Silbernagel, A.	95	Spyra, W.	101
Silin, V. P.	131	Srna, Djordje	88
Silla, Ousmane	31	Stablein, H.	119
Simchenko, L. Ye.	109	Stadtler, F.	105
Simonet, Guy	137	Staicu, Stelian	24
Simova, V.	95	Stakhovskaya, Z. I.	78
Sinayskiy, N. A.	133	Stanescu, C.	24
Sirazetdinov, T. K.	129		

Starostin, P. I.	113
Stas', I. I.	78
Stasikowski, H.	108
Stastna, Zdenka	25
Stehle, Hansjakob	18
Steiger-Trippi, K.	66
Stein, R.	106
Steinbach, K. H.	66
Steinemann, S.	97
Stel'makh, A. A.	126
Stel'makh, G. P.	129
Sten'kin, Ye. D.	139
Stenzel, H.	136
Stepanyants, L. G.	132
Stepanyants, Ye.	5
Stepchenko, F.	13
Stepunina, S.	11
Stoelting, Erhard	23
Stoian, Mihai	24
Stolarski, M.	86
Stolzle, Von Karl	104
Storikova, N. D.	79
Strelkov, G. M.	54
Strizhevskiy, I. I.	69
Strnad, Z.	95
Strohmeier, G.	99
Strumpe, A. I.	123
Strus, A.	143
Struyev, A.	7
Studnev, R. V.	48
Stysz, Franciszek	108
Subbotin, A. L.	58
Suckewer, S.	128
Suder, Mihai	52
Sukhov, V.	61
Suksov, I. I.	129
Surchenko, A.	12
Sushkov, L. K.	82
Sushkov, T.	9
Suzuki Shuichi	75
Sviridov, S.	13
Svistun, O.	51
Swietoslawska, J.	76
Swoboda, K.	102
Sypchenko, L. V.	134
Syreievich, I. V.	84
Szarski, J.	19
Szentagothai, Janos	67
Szymik, Franciszek	120

- T -

Tabata, Y.	138
Tabuenca, M. C.	55
Tabunov, N.	2

Taeger, Eberhard	74
Taguchi, W.	107
Tajima, O.	107
Takahashi, F.	75
Takatsu, M.	108
Takeda, K.	107
Talantov, A. V.	139
Tamba, Robert M.	29
Tamuzh, V. P.	91
Tar, Imre	24
Tarasov, L.	6
Tarasov, N.	111
Tarasov-Agalakov, N.	124
Tarasova, Z. N.	93
Tarbeyev, A. P.	142
Taschner, W.	85
Tasev, Stanoy	16
Tatsuichi Fukusako	119
Tauber, G. M.	57
Teindi, J.	94
Teisseyre, M.	136
Tel'tevskiy, I. A.	121
Tenebaum, D. Ya.	114
Tenjiro Fujikatsu	39
Terebikhin, G. V.	115
Terenin, A. N.	81
Tereshchenko, V.	49
Thanh Tin	38
Thoerner, Walter	66
Thomma, W.	103
Thomsen, Poul	26
Thummmler, F.	103
Thuries, E.	85
Thuro, G.	125
Tichy, H.	98
Tikhaya, M. G.	61
Tikhonovich, S. Ye.	121
Tikhonravov, M. K.	141
Timar, Vilmos	119
Timchenko, V. A.	111
Timchenko, V. L.	131
Timkin, V. N.	64
Timofeyevich, M.	12
Timoshenko, I.	11
Timov, Evtim	16
Titov, V. I.	130
Tkachev, O. F.	132
Tkacheva, M. N.	64
Todorov, Milko	116
Tokarev, P.	3
Tokareva, L. G.	92
Tolasch, G.	100
Tolochkov, Mikail	
Ivanovich	11
Tolstikov, Ya.	7

Tomarovskiy, P.	5
Tomaszewski, S.	83
Tomes, Vladimir	17
Tomifumi Godai	140
Tomilin, A. G.	76
Tonnet, J.	73
Toshio Ito	138
Totes, A. S.	95
Toth, Arpad	67
Tounkara, Tibon	30
Toussaint, J.	85
Tran Duy Duong	38
Tran Minh Tan	53
Treffel, R.	65
Trenkler, H.	99
Treshep, I. I.	82
Trifunovic, Miljko	21
Troitskaya, M. N.	63
Troitskaya, V. A.	54
Trojer, F.	102
Tromm, W.	74
Troshichev, O. A.	54
Troskhin, Yu. S.	62
Trubin, V. N.	91
Truchly, J.	94
Trumpfheller, R.	103
Truong Chinh	53
Trusov, V. S.	123
Trutneva, K. V.	63
Tsander, F. A.	142
Tsanev, N.	59
Tsegmed	64
Tselidov, A. I.	116
Tsernova, V. F.	57
Tsitovskiy, I.	7
Tsoy, A. D.	87
Tsuji, Y.	107
Tsurikov, F. F.	64
Tsvetko, V.	11
Tsykunov, F. A.	109
Tsysin, M. I.	87
Tukalevskaya, N. I.	109
Tulinov, V. F.	130
Tuliszka, I. Ye.	138
Tulpan, Ion	21
Tumanov, G.	4
Tumanov, Yu. N.	72
Turchak, Ye. V.	93
Turov, Ye. A.	127
Tushinskiy, L. I.	92
Tynyanskiy, N. T.	142
Tyszkiewicz, S.	68

- U -

Ul'yanov, M.	1
Unger, Y.	34
Urban, Jerzy	20
Urmakher, L. S.	63
Urmantsev, R.	115
Usami, S.	68
Usmanov, K. U.	71
Ussar, M.	98
Ustinov, G.	4

- V -

Vaillant	39
Valentey, D.	2
Valetov, V.	6
Valiyev, T. A.	110
Vanyukov, M. P.	134
Varley, V. V.	82
Varshaver, B. G.	121
Vashchukov, L.	84
Vasil'ev, A. V.	61
Vasil'yev, N.	14
Vasil'yev, N. N.	63
Vasil'yeva, R. V.	126
Vasserman, A. A.	132
Vayn, A.	8
Vayner, Sh. A.	111
Vayssiere, P.	109
Vedeanu, V.	52
Vehner, L.	95
Veitman, A. I.	121
Vel'bitskiy, I. V.	84
Velichko, G. V.	122
Vendrovskiy, K. V.	121
Venediktov, P. S.	59,60
Ventsel', S. V.	93
Verkshin, B. S.	91
Vershinskiy, V. V.	112
Vertgeim, B. A.	110
Verzhbitskiy, Ye. V.	78
Vetlutskiy, V. N.	134
Vexler, Erica	42,47
Veyts, A. V.	84
Vial	40
Viera, Eduardo	43
Vieuguet, Andre	27
Viktor, S.	37
Vilks, P.	11
Villmann, Ch. I.	56
Vinnichenko, N. K.	58
Vinogradov, M. Ye.	59
Vinogradov, S.	114
Vinogradov, V. V.	64

Vinogradova, S. V.	71
Virkovski, A. Ya.	82
Vishnevskiy, A.	2
Vladimirov, O. V.	72
Vladimirova, V. V.	61
Vladin, S.	1
Vlasov, D.	13
Vlasov, V. I.	116
Vlasova, Ye. V.	64
Volarevich, M. P.	78
Volchenko, V. N.	111
Volchkov, Ye. P.	133
Volesseniuc, Vasile	21
Volker, W.	105
Volkov, A. M.	113
Volkov, G. T.	83
Volkov, N.	1
Volkov, V. V.	63
Volkova, A. Ye.	113
von der Nuell, W. T.	118
von Schwerdtner, O-A.	88
Vornovitskiy, M. L.	87
Vorob'ev, I.	60
Vorob'yev, A. I.	71
Vorob'yev, G. G.	70,77
Voronov, F. D.	90
Voronov, N.	12
Vorontsov, B. S.	15
Vorontsov, P. A.	57
Voznesenskiy, A. N.	124
Vozzhinskaya, V. B.	62
Vranjican, Vanja	22
Vu Anh Tuan	40
Vu Dinh Cu	138
Vu Dung	53
Vu Quang	39
Vujkov, Miroslav	81
Vul'f, B. K.	88
Vulis, L. A.	134,139
Vydrin, I.	12
Vygodskiy, YE. V.	90
Vykhodtsev, P.	15
Vysokov, K.	114

- W -

Waeffler, Hermann	126
Wagenmann, R.	100
Wahl, Hans	66,75
Wahl, K.	66
Wahlster, M.	104
Walther, R.	117
Wanat, Jozef	119
Wascheidt, H.	105
Watel, Guy	135

Weber, B.	117
Weber, Henryk	20
Wegener, W.	101
Wegner, J.	143
Weigel, F.	106
Weiss, H.	18
Welker, J.	74
Wellinger, K.	117
Wellinger, W.	102
Werner, W.	123
Wesseling, J. M.	104
Widmann, W.	85
Wiegand, H.	100.102
Wild, Heinz W.	117
Wind, G.	85
Winkler, H. G. F.	136
Winter-Klein, A.	97
Wintrich, H.	74
Wirth, Guenter	23
Wirtz, H.	98
Waggon, H.	105
Wojciechowska, U.	20
Wolf, Ingo	119
Wolf, M.	119
Wolowczyk, Arkadiusz	20
Wolter, Lothar	52
Wscieklica, J.	108
Wu, Jung-sen	58
Wyart, J.	80

- Y -

Yablonskaya, V. A.	123
Yabrov, A. A.	64
Yadamsuren, D.	37
Yakhontov, V. V.	61
Yakovlev, O. P.	55
Yakovlev, S. G.	130
Yakovleva, G. D.	55
Yakovleva, M. I.	64
Yakubaytis, Ye. A.	81
Yakubenko, Ye. A.	131
Yakubovskiy, F. B.	114
Yamada, S.	107
Yamada, T.	67
Yammy, V. Ye.	82
Yang, Cheng-chu	135
Yanovskiy, A. G.	87
Yarin, L. P.	92
Yarko, S. A.	132
Yarkovoy, I.	49
Yarlykov, P.	112
Yaroshenko, V.	12
Yarulin, Kh.	79
Yashunskaya, F. I.	93

Yatsenko, V.	48
Yatsenko, V. F.	131
Yatsunskiy, I. M.	141
Yavorskiy, I. A.	133
Yazykova, K. N.	63
Yefimov, A. P.	17
Yefremov, A. I.	112
Yefremov, P.	4
Yegiazarov, I. V.	142
Yekshteyn, A. Ye.	11
Yelinskiy, M. P.	60
Yel'kin, A. I.	130
Yelkin, I. I.	64
Yemdin, A.	5
Yemelichev, V. A.	1
Yeremenko, V. N.	132
Yeremeyeva, T. V.	130
Yerkina, L. I.	87
Yermakov, I.	13
Yermolayev, V.	14
Yermolayeva, L. I.	70
Yerofeyev, I. A.	90
Yerokhin, N. S.	133
Yershin, Sh. A.	140
Yevreinov, Ye. V.	84
Yevstratov, V. F.	93
Yeydus, L. Kh.	61
Yezhevskiy, A. A.	50
Yoshihisa Iizuka	67
Yoshiya Tagame	67
Yosomiya, K.	107
Yruchenko, A. F.	133
Yudin, L. G.	69
Yulish, M.	1
Yun-shui	36
Yurchenko, A. F.	121
Yurkin, T.	1
Yushkevich, Ye. Ye.	113

- Z -

Zabulayev, A.	7
Zaglubotskiy, P. M.	114
Zagulov, Ya. F.	130
Zaharova, N. M.	57
Zahradnik, Jaromir	18
Zaikov, M. A.	89
Zaitsev, V. N.	125
Zakharov, M. V.	13
Zaklyaz'minskiy, L. A.	134
Zalesskiy, V. I.	91
Zalivadnyy, V.	15
Zambakhidze, D. V.	91
Zamyatina, V. B.	51
Zanegin, A.	2

Zapf, G.	103
Zara, M.	21
Zarcheva, Lilyana	51
Zaretskiy, Ye. I.	89
Zaturenskiy, A.	83
Zavoyskiy, Ye. K.	83
Zaydenvarg, V.	3
Zdravkovic, A.	69
Zeinalov, B. K.	69
Zel'dovich, A. G.	130
Zel'dovich, Ya. B.	55
Zelentsov, A.	58
Zelentsov, B. P.	81
Zenkis, Ya. S.	124
Zernike, F.	138
Zharikov, G. P.	84
Zharkov, A. P.	131
Zhavoronok, S. G.	90
Zhdanov, A. P.	121
Zhdanova, L. P.	60
Zhivkov, Todor	22
Zhukov, I.	5
Zhukov, S.	8
Zhulin, I. A.	54
Zhuravlev, V. M.	63
Zhurikov, V.	1,49
Ziegler, K.	75
Ziesling, K.	99
Ziffer, D.	67
Zileri Gibson, Enrique	42
Zimenkov, M.	12
Zimin, Ye. P.	127, 139
Zinchenko, A. G.	7
Zinkevich, V. P.	83
Zinov'yeva, O.	7
Zitter, H.	98, 99
Zivancevic, Milos	21
Zlobin, I.	3
Zmijarevic, A.	124
Zolkiewski, Czeslaw	20
Zolotogorov, M. S.	128
Zonik, Zygmunt	26, 124
Zubkov, A. I.	128, 133
Zubkovich, S. G.	83
Zubok, L. P.	63
Zuhle, Wolfgang	18
Zuithoff, A. J.	96
Zuna, P.	94
Zvyagintsev, V. V.	84
Zwick, W.	136
Zyryanov, G. K.	132

* * * *

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



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
AD0831939	78-03109A	59	1	2	123	Consolidated Translation Survey Through 31 March 1968	3/31/1968	252	Approved For Release	3/25/2004
AD08333917	78-03109A	59	1	3	124	Consolidated Translation Survey Through 30 April 1968	4/30/1968	223	Approved For Release	3/25/2004
AD0835906	78-03109A	59	1	4	125	Consolidated Translation Survey Through 31 May 1968	5/31/1968	267	Approved For Release	3/25/2004
AD0838252	78-03109A	59	1	5	126	Consolidated Translation Survey Through 30 June 1968	6/30/1968	341	Approved For Release	3/25/2004
AD0839299	78-03109A	59	1	6	127	Consolidated Translation Survey Through 31 July 1968	7/31/1968	354	Approved For Release	3/25/2004
AD0841414	78-03109A	59	1	7	128	Consolidated Translation Survey Through 31 August 1968	8/31/1968	255	Approved For Release	3/25/2004
AD0844244	78-03109A	59	1	8	129	Consolidated Translation Survey Through 30 September 1968	9/30/1968	259	Approved For Release	3/25/2004
AD0845247	78-03109A	60	1	1	130	Consolidated Translation Survey Through 31 October 1968	10/31/1968	252	Approved For Release	3/25/2004
AD0847806	78-03109A	60	1	2	131	Consolidated Translation Survey Through 30 November 1968	11/30/1968	284	Approved For Release	3/25/2004
AD0848152	78-03109A	60	1	3	132	Consolidated Translation Survey Through 31 December 1968	12/31/1968	176	Approved For Release	3/25/2004
AD0848841	78-03109A	60	1	4	133	Consolidated Translation Survey Through 31 January 1969	1/31/1969	188	Approved For Release	3/25/2004
AD0850186	78-03109A	60	1	5	134	Consolidated Translation Survey Through 28 February 1969	2/28/1969	167	Approved For Release	3/25/2004
AD0851748	78-03109A	60	1	6	135	Consolidated Translation Survey Through 31 March 1969	3/1/1969	232	Approved For Release	4/5/2004
AD0853348	78-03109A	60	1	7	136	Consolidated Translation Survey Through 30 April 1969	4/30/1969	262	Approved For Release	3/25/2004
AD0856606	78-03109A	60	1	8	137	Consolidated Translation Survey Through 31 May 1969	5/31/1969	306	Approved For Release	3/25/2004
AD0857706	78-03109A	63	1	1	138	Consolidated Translation Survey Through 30 June 1969	8/22/1969	413	Approved For Release	3/25/2004
AD0858054	78-03109A	63	1	2	139	Consolidated Translation Survey Through 31 July 1969	9/3/1969	185	Approved For Release	3/25/2004
AD0860022	78-03109A	63	1	3	140	Consolidated Translation Survey Through 31 August 1969	10/3/1969	315	Approved For Release	3/25/2004
AD0860905	78-03109A	63	1	4	141	Consolidated Translation Survey Through 30 September 1969	9/30/1969	285	Approved For Release	3/25/2004
AD0861886	78-03109A	63	1	5	142	Consolidated Translation Survey Through 31 October 1969	10/31/1969	269	Approved For Release	3/25/2004
AD0863371	78-03109A	63	1	6	143	Consolidated Translation Survey Through 30 November 1969	11/30/1969	224	Approved For Release	3/25/2004
AD0864516	78-03109A	63	1	7	144	Consolidated Translation Survey Through 31 December 1969	12/31/1969	177	Approved For Release	3/25/2004