UNCLASSIFIED

AD NUMBER

AD450482

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; Sep 1964. Other requests shall be referred to
Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW,
Washington, DC 20505.

AUTHORITY

CIA ltr, 7 Sep 2004

THIS PAGE IS UNCLASSIFIED
CONSOLIDATED TRANSLATION SURVEY

Number 81

For September 1964

OFFICE OF CENTRAL REFERENCE
Foreign Documents Division
CENTRAL INTELLIGENCE AGENCY
2430 E St., N. W., Washington 25, D. C.
# TABLE OF CONTENTS

| Preface | iii |
| Requests For Copies | iv |

### USSR

| Economic | 1 |
| Political | 6 |
| Military | 6 |
| Sociological | 7 |
| Biographic | 8 |

### Eastern Europe

| Economic | 8 |
| Political | 16 |
| Military | 17 |
| Geographic | 17 |
| Sociological | 17 |

### Western Europe

| Economic | 19 |
| Political | 19 |
| Military | 21 |

### Africa

| Economic | 21 |
| Political | 22 |
| Geographic | 23 |
| Sociological | 23 |

### Middle East

| Economic | 24 |
| Political | 24 |
| Sociological | 24 |

### Far East

| Economic | 24 |
| Political | 26 |
| Military | 28 |
| Geographic | 28 |
| Sociological | 28 |
Latin America

Economic
Political
Sociological
Page 31 32 32

World Wide

Economic
Political
Military
Sociological
Page 32 32 32 33

Scientific

Aerospace
Agriculture
Biological & Medical Sciences
Chemistry
Earth Sciences & Astronomy
Electronics
Engineering
Materials & Metallurgy
Mathematics & Data Processing
Nuclear Science & Technology
Physics
Miscellaneous
Page 33 33 35 45 47 51 51 53 54 56 58 62

Information on Cover-To-Cover Translations

Index to Authors

Page 64 116
CONSOLIDATED TRANSLATION SURVEY

PREFACE

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

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

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

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

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

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

Addresses of producers follow:

ACIC - Aeronautical Chart and Information Center (see OTS)

ACSI

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

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

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

ACSIL

Admiralty Center for Scientific Information and Liaison
Queen Anne's Mansions
St. James Park
London, S.W. 1, England

AEC - Atomic Energy Commission (see Department of Commerce)

AERE Harwell Lib

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

AF

Department of Air Force
Collection and Dissemination
Assistant Chief of Staff, Intelligence
ATTN: AFCIN 113
Washington 25, D.C.
Dept of State

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

DIA

Defense Intelligence Agency
Section: AP-IC
Building B
Arlington Hall Station
Arlington, Virginia

Duell

Duell, Sloan & Pearce, Incorporated
119 West 40th Street
New York 18, New York

Fisheries Res Bd of Canada

Fisheries Research Board of Canada
Biological Station
Nanaimo, British Columbia

Fisheries Res Bd of Canada

Fisheries Research Board of Canada
Publications Office
West Block
Ottawa, Canada

Fisheries Res Bd of Canada

Fisheries Research Board of Canada
Technological Station
898 Richards Street
Vancouver 2, British Columbia

Fisheries Res Inst

Fisheries Research Institute
University of Washington,
Seattle, Washington

FTD - Foreign Technology Division (see AF)

Harcourt

Harcourt, Brace and Company, Incorporated
750 Third Avenue
New York 17, New York
ONI - Office of Naval Intelligence (see Navy)

OSA

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

OTS

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

(Also available through Department of Commerce Field Offices)

Patent Office

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

Primary Sources

Primary Sources
11 Blecker Street
New York, New York 10012

SIAM

Society for Industrial and Applied Mathematics
P.O. Box 7541
Philadelphia 1, Pennsylvania

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

The Economics of Machine Building, the Organization and Planning of Enterprises, by P. A. Zhukov, 450 pp.
JPRS 25277

JPRS 25784

Measures to Raise Level of Economic Education, 8 pp.
JPRS 25184

Directives Concerning the Planning of Rural Telephone Networks. (DC-10240)
RUSSIAN, kh. Izvestiya po Proektirovaniyu Bol'shikh Telefonykh Semyk, Moscow, 1963, pp. 1-120; 138-140; 156-151; 161-
JPRS 25763

Measures to Reduce Cost and Improve Quality of Housing Construction, by L. Gelfgof, O. Feskov, 11 pp.
JPRS 25716

Automatic Operation of Two-Track Insert Adjustment Posts in Spans of One Track Lines, by V. V. Karustina, 16 pp.
JPRS 26162

RUSSIAN, rps. Avtomobil' Prom, No 6, 1964, pp. 38.
JPRS 20147

JPRS 25832

Second Plenum of Central Committee of Trade Union of Communications, Motor Transport, and Highway Workers, 5 pp.
JPRS 25994

JPRS 25781

The Soviet View of Kuwait's International Finance Role, by V. Bodnarsky, 7 pp.
JPRS 25229

INTERNATIONAL CONFERENCE ON ACCELERATING THE SETTING OF CONCRETE, by B. G. Barantseva, 5 pp.
JPRS 25046

JPRS 25046

JPRS 25056

A Basic Summary of Fulfillment of the Plan of Adoption of Achievements of Science and Engineering by the Construction Industry in 1963, by Ye. A. Neyev, 8 pp.
RUSSIAN, rps. Byul Statist Techn, No 5, 1964, pp. 31-34.
JPRS 25716

For Expanded Production and Application of Precast Reinforced Concrete, by Yu. V. Nikolaev, 8 pp.
JPRS 25716

JPRS 25717

JPRS 25776

The Functions of Credit in the Economy, by M. Peasell, 10 pp.
RUSSIAN, rps. Doklad i Kredit, No 4, 1964, pp. 31-42.
JPRS 25776

JPRS 25903

The Functions of Credit in the Economy, by M. Peasell, 10 pp.
RUSSIAN, rps. Doklad i Kredit, No 4, 1964, pp. 31-42.
JPRS 25776

Furniture and Woodworking Enterprises in the North Caucasus, by D. G. Bezruzhkikh, 8 pp.
JPRS 26053

About the Work of the Chief Economists of Sovarkhose Enterprises, 5 pp.
JPRS 25930
The Moscow Metall Combine and the Savtsov Glass Plant Violate State Discipline, 6 pp. RUSSIAN, np., Ekon. gazeta, No 19, 9 May 1964, p. 11. JPRS 20043

Inflating Mineral-Wool Salvage Device not Realized, by V. Savelyev, 5 pp. RUSSIAN, np., Ekon. gazeta, No 20, 10 May 1964, p. 8. JPRS 20107

The Development of the Caspian Sea Industry, by M. Chetverukhina, 6 pp. RUSSIAN, np., Ekon. gazeta, No 21, 13 May 1964, p. 13. JPRS 20165

State Electric Power Supplied to Rostov-Tau Island, by Ivan Shlpka, 5 pp. RUSSIAN, np., Ekon. gazeta, No 21, 13 May 1964, p. 11. JPRS 20165


Problems in Eastern Siberian Aluminum Production, by M. Ulyanov, 6 pp. RUSSIAN, np., Ekon. gazeta, No 22, 30 May 1964, p. 11. JPRS 20294

How to Improve the Efficiency Factor in the Planning and Design Bureau, by L. Levina, 5 pp. RUSSIAN, np., Ekon. gazeta, No 22, 30 May 1964, p. 19. JPRS 20353

Industrial Development in Donskoe, by K. Avgilev, A. Konvalin, 8 pp. RUSSIAN, np., Ekon. gazeta, No 23, 30 May 1964, p. 20. JPRS 20413


High Labor Productivity at the Zyryanovsk Lead Combining, by N. Zhukhov, 6 pp. RUSSIAN, np., Ekon. gazeta, No 26, 11 Jul 1964, p. 3. JPRS 20789

Material Incentives and Capital Construction, by S. Novozhilov, 5 pp. RUSSIAN, np., Ekon. gazeta, 4 Jul 1964, p. 3. JPRS 20810

Use of Free Time, 14 pp. RUSSIAN, np., Ekon. gazeta, 18 Jul 1964, pp 4-7. JPRS 20850

From Initial Design to Start of Production, 15 pp. RUSSIAN, np., Ekon. gazeta, No 29, 18 Jul 1964, pp 29-30. JPRS 20908

Uncontrolled Commodity Market, by V. Kuz'menko, 5 pp. RUSSIAN, np., Ekon. gazeta, No 29, 18 Jul 1964, p. 32. JPRS 20908

Credit Supply, 14 pp. RUSSIAN, np., Ekon. gazeta, No 30, 25 Jul 1964, pp 7-8. JPRS 20949

New Norms and Prices Must be Put into Effect Correctly and on Schedule, 7 pp. RUSSIAN, np., Ekon. gazeta, 3 Aug 1964, pp 3-7. JPRS 21166


Mercury Rectifiers, 9 pp. RUSSIAN, np., Ekon. gazeta, No 15, 7 Aug 1964, pp 11-17. JPRS 21846


Kolkhoz Democracy and Increased Production, by P. Grechishnikov, V. Kharenin, 16 pp. RUSSIAN, np., Kommunist, No 1, Jan 1965, pp. 2-12. JPRS 22233

The Economic Cooperation of the Artificial Provinces of Transbaikalia, by L. Priznyak, 5 pp. RUSSIAN, np., Kommunist, 20 Jan 1965, p. 2. JPRS 22253

Advantage of Specialization, by Ye. Prus'kov, 5 pp. RUSSIAN, np., Kommunisti Moldavii, 31 Jan 1965, pp. 66-68. JPRS 22364

Coordination of Industrial Planning in the Bal=tki State, by V. Stachikin, 5 pp. RUSSIAN, np., Kommunist, No 4, May 1965, pp. 27-30. JPRS 22727

Deep Ore Concentration Plant is Making Slow Progress, by A. Pal'm, 6 pp. RUSSIAN, np., Kommunisti, 1 Jun 1965, p. 2. JPRS 23288

Ratio of Basic and Auxiliary Workers, by N. Chigorin, 6 pp. RUSSIAN, np., Kommunist, 1 Jun 1965, p. 2. JPRS 23288

A Hall in a Laboratory: Style of Production Control, by V. Nemirovich, 5 pp. RUSSIAN, np., Lenin'skaya, 15 May 1965, pp. 1-5. JPRS 23592
Quality of Products in Moscow Sovnarkhoz Industry, by A. Karpoz, 5 pp.
RUSSIAN, No. Leninogorsk, May 1964, p. 4.
JPRS 28065

JPRS 28775

JPRS 28174

Mechanized Construction in Central Asia, 11 pp.
JPRS 28270

JPRS 28788

JPRS 28584

JPRS 28608

JPRS 28775

JPRS 28776

JPRS 28920

Capital Investment in Turkmenia, by S. Gizyshdowa, 7 pp.
JPRS 28920

JPRS 28785

JPRS 28805

Activities of the Main Economic Bureau, 8 pp.
JPRS 28787

JPRS 28179

Modifications by Roshkiatata, by D. Leonov, 6 pp.
JPRS 28179

JPRS 28557

Urgent Task in Working out the New Five Year Plan, by Y. Krutov, 14 pp.
JPRS 28563

JPRS 28563

RUSSIAN, No. Pravda, No. 6, 1964, pp. 11-21.
JPRS 28568

JPRS 28563

Urgent Part of River Navigation Season Conducting, 5 pp.
JPRS 28557

JPRS 28563

Rudimentary Control for Production and Sale of Consumer Goods, by V. Lyubkov, 8 pp.
JPRS 28568

Implementive Methods into Procew Production, by V. Yavtsevich, 5 pp.
JPRS 28568

Flexible Economic Control of Enterprises Favored, by V. Trupnik, 7 pp.
JPRS 28568

Many Sided Approach Needed to Achieve Hardening Thermal Technology at the Kirov Plant, by E. Alikin, 5 pp.
RUSSIAN, No. Pravda, 1 Jul 1964, p. 2.
JPRS 28563
Technical Progress in the Field of Mechanization and Automation of Production Processes, by A. Antonyan, 5 pp. RUSSIAN, per, Pravda, No 5, 1964, pp 30-32. JPRS 25852

Results of Fulfillment of State Plan by Pakovskaya Obkut Industry for the First Quarter of 1964, 6 pp. RUSSIAN, np, Pakovskaya Pravda, 28 Apr 1964. JPRS 26208

Standard for Railroad Ties, 6 pp. RUSSIAN, per, Putil Pervaya Khosa. May 1964, pp 30, 37. JPRS 25785

Prospecting for Minerals for Fertilizers In Siberia, 5 pp. RUSSIAN, per, Raykun. Obhara Nozlu, No 5, 1964, pp 1-14. JPRS 25675

Bumal Indicators and Standards, by V. Bitunov, 12 pp. RUSSIAN, per, Sotsial Trud, No 6, 1964, pp 23-31. JPRS 26010


The Main Direction, by P. Kulpets, 6 pp. RUSSIAN, np, Sotsial Trud, 9 Jun 1964, pp 1, 2, 1 P. JPRS 25985

The Development of Public Catering, by N. Zavyalov, A. Kuchersa, 2 pp. RUSSIAN, np, Sotsial Trud, 30 Jun 1964, p 1, 2. JPRS 26108

Standardization and unification of Equipment in Machine Building, by V. V. Kuchml, 11 pp. RUSSIAN, per, Standardizatlya, No 1, 1964, pp 20-30. JPRS 25818

Unification is the Method for Creating Highly Productive Machines, by A. I. Ohryansky, 17 pp. RUSSIAN, per, Standardizatlya, No 4, 1964, pp 30-38. JPRS 26020

Interbranch Unification of Machines in a Basic Direction of Technical Progress, by N. D. Dmorovalky, V. V. Kubyashev, 11 pp. RUSSIAN, per, Standardizatlya, No 4, 1964, pp 40-46. JPRS 25828


Standardization and Typification of the Means of Large-Scale Automation, by N. D. Purkov, 8 pp. RUSSIAN, per, Standardizatlya, No 4, 1964, pp 50-56. JPRS 26047

Future Expansion of the Construction and Industrial Glass Industry, 10 pp. RUSSIAN, per, Sotsial Karamika, No 4, 1964, pp 1-5. JPRS 25716


Construction and Road Machinery Seminar, by B. B. Shlyubskiy, 5 pp. RUSSIAN, per, Stroitel i Dorosz, No 6, 1964, pp 37, 38. JPRS 25243


New Blast Furnace Billet Mill Completed, 20 pp. RUSSIAN, np, Stroitel Gamza, 14 Jun 1964, pp 1, 2. JPRS 25878

Economy of the Western Urals, by B. Korosov, 5 pp. RUSSIAN, np, Stroitel Gamza, 17 Jun 1964, p 2. JPRS 26005


The Lumber Carrier Maloyaroslavets, by V. N. Zakhov, 11 pp. RUSSIAN, per, Stroitel Material, No 5, 1964, pp 1-5. JPRS 26150


February Plenum of Central Committee CPSU of Unification of Agricultural Production, 7 pp. RUSSIAN, per, Sverch Prava, No 4, 1964, pp 1, 2, JPRS 26120
USSR
Economics (Cont)

Trade Unions Must Aid Introduction of Inventions, by V. V. Grishin, 5 pp.
JPRS 26010

Kolkhoz Pension Law, 6 pp.
JPRS 26010

All-Out Development of Home Services to Workers, 10 pp.
JPRS 26010

For Reduced Manufacturing Losses in the Cement Industry, 5 pp.
RUSSIAN, per. Tezdat, No 2, Mar, Apr 1964, pp 1-2.
JPRS 25716

RUSSIAN, per. Vechernaya Moskva, 11, 12, 13 Jun 1964, p 2.
JPRS 26052

RUSSIAN, per. Vechernaya Moskva, No 14, 1964, pp 11-23.
JPRS 25760

Calculation of Public Catering Price Indices, by V. Toktukhin, 18 pp.
RUSSIAN, per. Vechernaya Moskva, No 6, 1964, pp 32-42.
JPRS 26010

JPRS 25788

Soviet Consumer Goods Trade with the CMEA Nations, by N. Semtiv, 8 pp.
RUSSIAN, per. Vechernaya Moskva, No 4, 1964, pp 30-33.
JPRS 25783

Plenary Meeting of the Economics Department of the Academy of Sciences, USSR, 8 pp.
RUSSIAN, per. Voprosy Ekonomiki, No 4, 1964, pp 139-142.
JPRS 25776

Coordination of Scientific Economic Research USSR, by N. Lankin, A. Sokolovsky, 8 pp.
RUSSIAN, per. Voprosy Ekonomiki, No 4, 1964, pp 152-159.
JPRS 25776

JPRS 25776

JPRS 26005

Material Incentives on Kolkhozes, by L. Kasatov, 15 pp.
JPRS 26010

RUSSIAN, per. Voprosy Ekonomiki, No 6, 1964, pp 107-117.
JPRS 26010

Pay of Kolkhoz Managers and Specialists, by M. Minin, N. Popov, 9 pp.
RUSSIAN, per. Voprosy Ekonomiki, No 6, 1964, pp 147-152.
JPRS 26010

Achievements and Deficiencies of the Kirov Plant, by B. Radchenko, 6 pp.
JPRS 26056

Lack of Parts for Motorcycles are Lacking, 6 pp.
RUSSIAN, per. ZA Kultur, No 2, 1964, pp 26-27.
JPRS 26056

Progressive Production Methods, by V. Vashchenko, 16 pp.
RUSSIAN, per. Ekonomika, 3 Jun 1964, p 1.
JPRS 25705

JPRS 25707

JPRS 25785

JPRS 25785

Collaboration of Member Countries of the Council of Mutual Economic Assistance in the Field of Transport, by V. S. Pavlov, 9 pp.
JPRS 25785

Perfection of Motorcar Rolling Stock, by M. R. Barzak, M. O. Glushkov, 12 pp.
JPRS 25785

New Locomotives From the Talasskii Electric Locomotive Building Plant, by A. A. Kandzhasht, 14 pp.
JPRS 25785

JPRS 25785

Improving the Quality of Industrial Production, by Ivan Popyov, 9 pp.
JPRS 25785

Capital Construction in the Ukrainian SSR, by M. Lelichkin, 7 pp.
JPRS 25787
The Building of Communism in the USSR and the Development of Agriculture, by N. S. Khrushchev, 130 pp.

RUSSIAN, by V. A. Zottin, 5 pp.

Growth in Soviet-Arab Cooperation, 8 pp.

RUSSIAN, by A. N. Afrika Soobshchaya, No 7, 1964, pp. 4-6, 11.

JPRS 25842

Comparative Soviet and Chinese Aid to Emerging Nations, by K. Otsa, 6 pp.

RUSSIAN, by Izvestiya, 12 July 1964, p. 2.

JPRS 25301


RUSSIAN, by Izvestiya, 12 July 1964, p. 3.

JPRS 26058

The Right of the Soviet Union to Participate in Afro-Asian Conference, 11 pp.

RUSSIAN, by Kommunist, No 9, May 1964, pp. 3-10.

JPRS 25340

Workers' Class Leadership in the Struggle for Communism, by A. Nikolayev, V. Politkov, 14 pp.

RUSSIAN, by Kommunist, No 8, May 1964, pp. 45-50.

JPRS 25743


RUSSIAN, by Kommunist, No 9, May 1964, pp. 62-76.

JPRS 25747


RUSSIAN, by Kommunist, No 9, June 1964, pp. 42-46.

JPRS 26554

The Unilateral Non-Force World Communism from the Leninist Path, 10 pp.

RUSSIAN, by Kommunist, No 9, June 1964, pp. 79-86.

JPRS 25664


JPRS 26064


JPRS 26164


RUSSIAN, by Politicheskie Samoobrazovaniya, No 7, 1964, pp. 11-18.

JPRS 25840


RUSSIAN, by Pravda, 21 June 1964, p. 4.

JPRS 25745


RUSSIAN, by Pravda, 19 July 1964, p. 6.

JPRS 26064


RUSSIAN, by Pravda, 10 Aug 1964, pp. 1, 3.

JPRS 25953

Lenin's Teaching on Material Well-being, 5 pp.


JPRS 25958


RUSSIAN, by Pravda, 20 Aug 1964, pp. 2, 3.

JPRS 26430

Morotov-Peiping and the SHP, by Walter Owen, 12 pp.

JPRS 26120

Khrushchev Answers Questions to Danish, 5 pp.

GERMAN, by Kommunistisches Volksblatt, 2 July 1964, p. 6.

JPRS 26050

Military

Necessity and Chance in Armed Combat, by N. Tsybin, 12 pp.

RUSSIAN, by Kommunist, Vostoknesta, No 10, May 1964, pp. 4-11.

JPRS 25202

Future Engineer, by N. Tsybin, 8 pp.


JPRS 26202

Long-Distance Air Force Jet Fighters, by N. Kolychev, 6 pp.

RUSSIAN, by Kommunist, No 12, May 1964, pp. 6, 7.

JPRS 26592

Training for Modern War, by V. Pankrov, 6 pp.


JPRS 26202

How to Catch With The Flow of Paper, 6 pp.


JPRS 25992


RUSSIAN, by Kommunist, 24 June 1964, p. 5.

JPRS 25992

The Training of Minutemen, by A. Belenkov, 6 pp.

RUSSIAN, by Kommunist, No 15, 30 June 1964, pp. 2, 3.

JPRS 26202

Modern Combat and One-Man Command, by P. Kurachkin, 9 pp.

RUSSIAN, by Kommunist, No 15, 30 June 1964, pp. 2, 3.

JPRS 26202

The Force of Will, by D. Svenewsky, 7 pp.

RUSSIAN, by Kommunist, No 16, 13 July 1964, p. 2.

JPRS 26202

Successes and Shortcomings in Modernizing Air Force Services, by N. Poltykhin, 3 pp.

RUSSIAN, by Kommunist, No 14, 12 June 1964, p. 2.

JPRS 25992

USSR

Political (Contd)


RUSSIAN, by Pravda, 10 Aug 1964, pp. 1, 3.

JPRS 25953

Lenin's Teaching on Material Well-being, 5 pp.


JPRS 25958


RUSSIAN, by Pravda, 20 Aug 1964, pp. 2, 3.

JPRS 26430

Morotov-Peiping and the SHP, by Walter Owen, 12 pp.

JPRS 26120

Khrushchev Answers Questions to Danish, 5 pp.

GERMAN, by Kommunistisches Volksblatt, 2 July 1964, p. 6.

JPRS 26050
Analysis of the USSR Athletic Program, 5 pp.
GERMAN, per, Frankfurter Allgemeine Zeitung, No 168, 23 Jul 1964, p 7.
JPRS 20070

Researchers Should be Trained From Childhood, 8 pp.
UKRAINIAN, per, Pedjobna'ie Shkola, Vol XXII, No 5, 1963, pp 14-17.
JPRS 25894

In the Vanguard of Educational Groups, by
V. D. Doychenko, 14 pp.
UKRAINIAN, per, Pedjobna'ie Shkola, Vol XXIII, No 2, 1963, pp 6-11.
JPRS 25894

Problems of Psychology of Education in the Pedagogical Poem, by A. S. Makarenko,
L. D. Dranov, 24 pp.
JPRS 25894

Biographies

RUSSIAN, S. Lenin, Politika, Moscow, 1964, pp 1-62.
JPRS 25902

Zinovy Grigor'evitch Piskar Sixth Birthday Anniversary, 5 pp.
RUSSIAN, per, Moscow Lexicographical, Vol IX, No 1, 1967, pp 1-6.
JPRS 25902

Kostyuk Muskhamedovich Abdullaev, by Kh. N. Baymukhamedov, 5 pp.
JPRS 25902

Eastern Europe

Economic

The Juridical Effect of Correctional Work to the Field of Labor Relations, by Teodor Papavassil, 11 pp.
ALBANIAN, per, Dritetja Popularise, No 4, Mar, Apr 1964, pp 22-50.
JPRS 25913

Approval of Internal Regulation of the Ministry of Finance, 5 pp.
ALBANIAN, per, Gazeta Zvjezdar, No 4, Jun 1964, pp 71-75.
JPRS 25910

Albanian Transformation From an Agricultural Industrial Country into an Industrial-Agricultural Country, by Hekuran Mare, 14 pp.
ALBANIAN, per, Arazi e Parqes, No 7, 1964, pp 37-52.
JPRS 25921

BULGARIAN, per, Finanshi i Kredit, No 5, Jul 1964, pp 31-34.
JPRS 25924

BULGARIAN, per, Economicheski Menedh, No 5, 1964, pp 3-17.
JPRS 25926

BULGARIAN, per, Economicheski Menedh, No 5, 1964, pp 19-29.
JPRS 25928

Programs in Services to the Public, by Novko Rangelov, 18 pp.
BULGARIAN, per, Economicheski Menedh, No 5, 1964, pp 30-41.
JPRS 25980
Problems in Agricultural Investment Construction,
by Jaroslaw Zychowy, 11 pp.
CZERGI, p. Ekonoma Zemledzia, Vol. III,
No. 6, 1984, pp. 765-783.
JPRS 25945

The International Equalization of National
JPRS 25950

Why Deliberate About a New System,
by Jan Fertlak, 15 pp.
JPRS 25950

Industrialization of Agriculture, by
Stefan Ferenda, 13 pp.
JPRS 25950

Position of Criteria of Management Effectiveness,
by Pranaszek Valenta, 10 pp.
CZERGI, p. Politica Economic, No. 4, 1984,
pp. 328-333.
JPRS 25955

Improvement of System of Planned Management,
by Ota Slavik, 20 pp.
JPRS 26150

Housing Construction in the Villages,
by Josef Davul, 6 pp.
CZERGI, p. Vysiaka Socioistiacie, Vicestle,
No. 4, 1984, pp. 1-8.
JPRS 25986

Traction Changes on the East German Railroads,
by Hansjohann Ziem, 10 pp.
GERMANY, p. Deutsche Eisenbahn, Technik,
No. 5, 1984, pp. 133-155.
JPRS 25974

Minister of Finance Demands Higher Quality
of Work in the German Bank of Issue,
by Willy Rumpf, 19 pp.
GERMANY, p. Deutsche Finanzwirtschaft, No. 10,
May 1984, pp. 2-8.
JPRS 25986

Task of the Financial Officer in Planning
GERMANY, p. Deutsche Finanzwirtschaft,
No. 12, Jun 1984, pp. 9-16.
JPRS 26155

Construction of Chemical Installations Facing
Major Tasks, by Paul Praz, Franz Muller, 15 pp.
GERMANY, p. Industria, No. 6, 1984, pp. 18-22.
JPRS 25782

The Iron and Steel and International Exchange,
by W. Schleszg, 5 pp.
GERMANY, p. Der Fernande-Praaktiker,
JPRS 25980

The Telephone Network of the East German,
by H. Schumahn, 9 pp.
GERMANY, p. Der Fernande-Praaktiker,
JPRS 26154

Decree on the Statute of the State Planning Commission,
issued 16 April 1984, 18 pp.
GERMANY, p. Gesetzblatt der Deutschen
Demokratische Republik, Part II, No. 97, Jul 1984,
pp. 271-287.
JPRS 25926

Model IWR-X 10 Weather Radar of the VHI
Fundamental Experimental Plant in Leipzig,
by P. Mockler, H. Wagner, 8 pp.
GERMANY, p. Nachrichtentechnik Elektronik,
Vol. XIV, No. 6, 1984, pp. 228-238.
JPRS 25782

Eastern Europe

Some Experiences Derived From the Plant Work
of the Production Committees, 77 pp.
GERMANY, p. Naturelle, Vol. 12, 1984,
pp. 551-557.
JPRS 25809

Industrial Planning Under the New Economic
System, by Helmut Speck, 5 pp.
GERMANY, p. Praxis-Informationen, No. 83,
JPRS 25955

The Development of Port Traffic in the People's
Republic of Poland, by Grzegorz Molinik, 6 pp.
GERMANY, p. Schifffahrtsforschung, No. 2, 1984,
pp. 259-260.
JPRS 25955

Important Question of Investment Activity
in Water Management, by C. Roh, 6 pp.
XIV, No. 1, 1984, pp. 329-335.
JPRS 25955

Development of River Construction Capacities
of Underground Construction Engineering
Under the Border Construction Officers,
by Horst Walter, 6 pp.
XIV, No. 1, 1984, pp. 329-335.
JPRS 25955

Outlook for the Lubricant Industry in the GDR,
by P. W. Matzcho, 2 pp.
GERMANY, p. Die Wirtschaft, No. 26, Nov 1984,
pp. 2-3.
JPRS 25782

The Production, Food, the Economic
GERMANY, p. Der Wirtschaft, Vol. 1, No. 1657,
25 May 1984, pp. 1-17.
JPRS 25981

East German Line Services in the Port of Hamburg,
by Manfred Schelz, 5 pp.
GERMANY, p. Die Wirtschaft, No. 1, 1984,
pp. 1-3.
JPRS 25958

Making Investment Funds and Construction
Capacity Available by Reducing Area
GERMANY, p. Die Wirtschaft, 22 Jun 1984,
pp. 18-19.
JPRS 25985

Mechanization and Automation of Substructure
Work on the Railroad Lines of the GDR,
by K. Niem, 2 pp.
GERMANY, p. Gesellschaft der Organisation
fur die Zusammenarbeit der Eisenbahnen,
JPRS 25809

Development of Mobile Radio-Telephone Facilities
of the Railroad, by J. Grund, 5 pp.
GERMANY, p. Zeitschrift der Organisation fur
die Zusammenarbeit der Eisenbahnen, No. 2,
JPRS 25805

GERMANY, p. Zeitschrift der Organisation fur
die Zusammenarbeit der Eisenbahnen GDR,
JPRS 25803

-10-
HUNGARIAN, per, Zeitschrift der Organisation fuer die Zusammenarbeit der Eisenbahnen (OSBE), No 3, May, Jun 1964, pp 1-4.
JPRS 26074

Experiences in the Electrification of the Bulgarian Railroads with Industrial Frequency AC Current, by K. G. Komzaki, 10 pp.
HUNGARIAN, per, Zeitschrift der Organisation fuer die Zusammenarbeit der Eisenbahnen (OSBE), No 3, May, Jun 1964, pp 4-8.
JPRS 26074

OSZOB Committee Work, 23 pp.
HUNGARIAN, per, Zeitschrift der Organisation fuer die Eisenbahnen (OSBE), No 3, May, Jun 1964, pp 27-33.
JPRS 26074

JPRS 26521

HUNGARIAN, per, Elektrotechnika, Vol LVI, No 4, 5, 1964, pp 123-128.
JPRS 25734

Automation of Electric-Power Networks and its Further Development, by Ferenc Kovacs, 6 pp.
HUNGARIAN, per, Elektrotechnika, Vol LVI, No 6, 1964, pp 196-201.
JPRS 26154

Utilization of the Input-Output Table in Perspective Planning, by László Ujlaki, 8 pp.
HUNGARIAN, per, Playudo, No 7, 1964, p 3.
JPRS 25939

HUNGARIAN, per, Playudo, No 27, 1 Jul 1964, p 6.
JPRS 26025

The Differentiated Financing of Investments, by Zsuzsa Kiss, 7 pp.
HUNGARIAN, per, Playudo, 15 Jul 1964, p 3.
JPRS 26046

Industrial Reorganization and Development of Management Methods, by Otto Gács, 6 pp.
HUNGARIAN, per, Playudo, 27 Jul 1964, p 3.
JPRS 26156

Prices in Agriculture, by János Csal, 7 pp.
HUNGARIAN, per, Playudo, 12 Aug 1964, p 8.
JPRS 26207

HUNGARIAN, per, Magyarnagzsaludok, Vol X, No 3, 1964, pp 103-117.
JPRS 25800

Development of Maritime-Vessels in Hungary, by Ildikó Balogh, 17 pp.
HUNGARIAN, per, Magyarnagzsaludok, Gezeg, Vol XIV, No 1, 1964, pp 131-140.
JPRS 25472

Formation and Use of the Technical Development Fund, 5 pp.
HUNGARIAN, per, Kohut és Gépgyártó Közössége, No 15, 26 Apr 1964, pp 102-103.
JPRS 25583

JPRS 25680

JPRS 25944

JPRS 25944

The Role of Particles in Determining the Value Agreements of Foreign Trade, by Péter Sziklay, 7 pp.
HUNGARIAN, per, Kulturakeszdtlom, No 7, 1964, pp 5-8.
JPRS 25712

HUNGARIAN, per, Magyarnagzsaludok, Vol VIII, No 5, 1964, pp 1-5.
JPRS 26112

Minister of Heavy Industry Replies to Questions of the Technicians, 13 pp.
HUNGARIAN, per, Munkaszabadsag, Vol XIX, No 12, 4 Jun 1964, pp 1-3.
JPRS 25853

Storage, Supplyment, and Acceptance of Agricultural Products, by Péter Dergacs, 9 pp.
HUNGARIAN, per, Parazdel, Vol IX, No 6, 1964, pp 10-16.
JPRS 25549

The Relationship between Domestic and Foreign Trade Prices, by Balázs Gysin-Nagy, 18 pp.
JPRS 25578

JPRS 25578

HUNGARIAN, per, Magyarnagzsaludok, No 5, 1964, pp 441-459.
JPRS 25762

The Role of Finance in the Planned Management of the Economy, 18 pp.
HUNGARIAN, per, Magyarnagzsaludok, No 7, 1964, pp 63-611.
JPRS 25756

HUNGARIAN, per, Magyarnagzsaludok, Vol XIX, No 3, 1964, pp 101-104.
JPRS 25806

JPRS 25472

Cooperative-Sate Farm Enterprises as an Alternative to Producer Cooperatives, by Zoltán Mihó, 12 pp.
POLISH, per, Ekonomista, No 3, 1964, pp 587-597.
JPRS 26109
Credit Policy Problems in the Private Farm Sector of the Economy, by Tadeusz Wyzomirski, 11 pp.
POLISH, per, Finanse, No 6, 1964, pp 35-43.
JPRS 25852

Development of Self-Service Stores in Poland, by Zbigniew Zabchuck, 7 pp.
JPRS 26238

POLISH, per, Gospodarka Planowa, No 6, 1964, pp 1-7.
JPRS 25142

POLISH, per, Gospodarka Planowa, No 6, 1964, pp 7-13.
JPRS 25142

POLISH, per, Gospodarka Planowa, No 6, 1964, pp 13-16.
JPRS 25207

JPRS 25204

POLISH, per, Gospodarka Planowa, No 6, 1964, pp 48-50.
JPRS 25943

POLISH, per, Gospodarka Planowa, No 7, 1964, pp 14-17.
JPRS 26294

POLISH, per, Inwestycje i Budownictwo, No 5, 1964, pp 16-21.
JPRS 25739

POLISH, per, Inwestycje i Budownictwo, No 6, 1964, pp 5-9.
JPRS 26074

Machine-Building Industry in CEMA Countries, by Halina Murawska, 8 pp.
POLISH, pp, Krzeg Slowoizmocznego (Gospodarka i Handel), 21 Jul 1964, pp B5, BY, p 14.
JPRS 26198

Branch Agreements in Automotive Transport, by Marian Wilczynski, 8 pp.
POLISH, per, Motoryzacja, No 4, 1964, pp 73-81.
JPRS 25955

POLISH, per, Mechanika, No 5, 1964, pp 241-244.
JPRS 25762

POLISH, per, Nowe Drogi, No 5, 1964, pp 114-120.
JPRS 25448

Employment not Only an Economic Problem, by Antoni Radlinski, 17 pp.
POLISH, per, Nowe Drogi, No 6, 1964, pp 127-140.
JPRS 25457

POLISH, per, Nowe Drogi, No 6, 1964, pp 60-83.
JPRS 25253

The Role of Technical Sciences in the Development of the National Economy, by Ignacy Malecki, 16 pp.
POLISH, per, Nowe Drogi, No 6, 1964, pp 92-109.
JPRS 25849

JPRS 25725

POLISH, per, Nowa Rolnictwo, No 11, 1-15 Jun 1964, pp 41-51.
JPRS 25859

POLISH, per, Nowa Rolnictwo, No 11, 1-15 Jun 1964, pp 54-57.
JPRS 25725

The 1963 Financial Results of the Agricultural Circles, by Jan Gryski, 8 pp.
JPRS 25892

JPRS 25900

POLISH, per, Przeglad Kolowy Mechaniki, No 5, 1964, pp 177-178.
JPRS 25855

POLISH, per, Przemysl, No 7, 1964, pp 301-315.
JPRS 26255

CEMA and the Economically Developing Countries, by T. Witt, 5 pp.
POLISH, pp, Zywna Zagranicznna, No 9, 28 Jul 1964, p 3.
JPRS 26110

POLISH, per, Wiedomosci Narodowego Banku Polskiego, No 6, 1964, pp 206-209.
JPRS 25943

POLISH, per, Zagadnienia Materiality, No 9, May 1964, pp 3-18.
JPRS 25756

Easter Europe Economic (Cont)
Greater Assessment of Metallurgical Products and Steel Savings, by Tadeusz Mosalkowski, 7 pp.
JPRS 25583

Tasks of the Chemical Industry, by Franciszek Wadlofski, 10 pp.
JPRS 25583

20th Anniversary of the Polish Chemical Industry, by Wieslaw Dzidzinski, 10 pp.
POLISH, np, Zycie Gospodarcze, No 23, 7 Jun 1964, pp 1, 4, 5.
JPRS 25583

JPRS 25583

Consumer Problems During the New Five-Year Plan, by Gregorcz Pimarski, 10 pp.
JPRS 25580

JPRS 25602

JPRS 25892

POLISH, np, Zycie Gospodarcze, No 26, 28 Jun 1964, p 11.
JPRS 25892

Production Reserves in Heavy Industry, by Andrzej Dobrzecki, 5 pp.
POLISH, np, Zycie Gospodarcze, No 26, 28 Jun 1964, p 11.
JPRS 25892

Some of the Problems of Shipowners, by Tadeusz Tryszkiewicz, 5 pp.
POLISH, np, Zycie Gospodarcze, No 28, 12 Jul 1964, p 1, 10.
JPRS 25782

Five-Year Achievements of the Haider Polish-Hungarian Coal Enterprise, by Adam Zwas, 5 pp.
POLISH, np, Zycie Gospodarcze, No 26, 28 Jun 1964, p 11.
JPRS 25892

In the Foreground of the Coming Five-Year Plan, an Interview With Ludmila Janczur, by Stanislaw Cholewinski, Jan Glowczyk, 8 pp.
POLISH, np, Zycie Gospodarcze, No 30, 26 Jul 1964, pp 1, 2.
JPRS 25958

Economic (Cont)

The Reform of the Wage System in the Associations, by Brzislawa Fica, 16 pp.
POLISH, np, Zycie Gospodarcze, No 31, 2 Aug 1964, pp 1, 2.
JPRS 25539

RUMANIAN, np, Consorcii Sociali, 14 Jun 1964, pp 1, 3.
JPRS 25583

RUMANIAN, np, Electrotehnica, Vol 1, 2, 1964, pp 3-6.
JPRS 25612

RUMANIAN, np, Constructorul, 9 May 1964, pp 1, 3.
JPRS 25583

RUMANIAN, np, Electrotehnica, Vol 1, 2, 1964, pp 3-6.
JPRS 25612

RUMANIAN, np, Gazeta Financiara, 15 Jul 1964, pp 1, 3.
JPRS 25616

The Observance of Law in the Collection of Taxes and Fees, by V, I. Popescu, 7 pp.
RUMANIAN, np, Finante si Credit, No 3, 1964, pp 7, 8.
JPRS 25578

RUMANIAN, np, Gazeta Financiara, 15 Jul 1964, pp 1, 3.
JPRS 25616

JPRS 26172

Investments and Their Economic Efficiency, by Tibor Horvath, 13 pp.
JPRS 25739

The Hydro-electric Power Plants and the National Economy, by Octavian Groza, 14 pp.
JPRS 25803

JPRS 26022
RUMANIAN, np, Muncul, 21 May 1964, pp 1-3.
JPRS 25782

JPRS 26008

Electrification as an Essential for Rumanian Industrialization, by Remus Radulescu, 6 pp.
RUMANIAN, np, Muncul, Vol XV, No 4, 1964, pp 182-188.
JPRS 25939

New Automation Systems for Oil Pipelines I, 14 pp.
RUMANIAN, per, Petrolul din Romania, Vol XV, No 4, 1964, pp 182-188.
JPRS 25606

The Increase in the Purchasing Power of Wages During the Years of the People's Regime, by S. Talgar, 18 pp.
JPRS 25860

Better Utilization of Natural Resources in Order to Increase the Economic Potential, by Al. Pusca, 18 pp.
JPRS 25072

JPRS 26110

Preparatory Planning in Increasing the Effectiveness of Industrial Investments, by G. V. Topala, 18 pp.
RUMANIAN, per, Probleme Economici, No 4, Jun 1964, pp 30-34.
JPRS 25442

JPRS 26024

RUMANIAN, per, Revista de Chimbria, No 5, 1964, pp 229-232.
JPRS 26155

Results Obtained by the CHMA Permanent Commission of Agriculture, by I. Predescu, 10 pp.
JPRS 25712

Chima Seminar on Efficiency in Operating and Repairing Tractors and Farm Machinery, by G. Zuzumovitch, 9 pp.
JPRS 25717

RUMANIAN, per, Revista Stiintelor, No 4, 1964, pp 12-21.
JPRS 25717

RUMANIAN, per, Revista Minerara, No 5, 1964, pp 217-222.
JPRS 26013

RUMANIAN, per, Revista Minerara, No 5, 1964, pp 222-227.
JPRS 26014

Achievements in the Field of Mine Surface Construction, by D. Sotocanu, 6 pp.
RUMANIAN, per, Revista Minerara, No 5, 1964, pp 228-231.
JPRS 26015

RUMANIAN, per, Revista Minerara, Vol XXVIII, No 5, 1964, pp 228-231.
JPRS 26016

The Proportion Between Accumulation and Consumption, by Ion Ravar, Ion Sadu, 13 pp.
JPRS 26112

RUMANIAN, per, Revista de Statistica, 4 Aug 1964, pp 1-2.
JPRS 25283

RUMANIAN, per, Revista Stiintelor, No 27, 30 May 1964, p 5.
JPRS 25448

RUMANIAN, per, Revista Stiintelor, No 27, 30 May 1964, p 5.
JPRS 25449

RUMANIAN, per, Revista Stiintelor, No 27, 30 May 1964, pp 1-3.
JPRS 25443

An Industrial Development Based on the Standard of Living, by Simion Talgar, 7 pp.
RUMANIAN, per, Revista Stiintelor, No 27, 30 May 1964, pp 1-5.
JPRS 25448

RUMANIAN, per, Revista Stiintelor, No 30, 24 Jul 1964, pp 1-5.
JPRS 25483

The Development of Mining in Rumania, by D. Sotocanu, 6 pp.
RUMANIAN, per, Revista Stiintelor, No 30, 24 Jul 1964, pp 1-5.
JPRS 25484

Trends in Consumption as a Function of Income in Rumanian Farm Households Pulled in 1901, by Ioan Vianu, 30 pp.
RUMANIAN, per, Revista Stiintelor, No 30, 24 Jul 1964, pp 1-5.
JPRS 25485

SERBIAN, per, Izvestija No 6, 1964, pp 2-10.
JPRS 25486
Eastern Europe
Economic. (Contd)

SERBIAN, per Javnoradni Transport, No 6, 1964, pp 382-385.
JPRS 20112

Some Problems in Internal Distribution of Income in Economic Organizations, by Ratko Vuleovic, 13 pp.
JPRS 25739

Largo-Scale Conditions for Rapid and Rational Housing Construction, by Ljubisa Popovic, 7 pp.
JPRS 25738

On the Credit Relations between the Yugoslav Investment Bank and Commercial Banks on the Basis of Credit Transfers handled by the Commercial Banks for the Yugoslav Investment Bank, by Filip Vasic, 12 pp.
JPRS 25215

Investments in the Yugoslav Steel Industry, by Davor Vujevic, 9 pp.
JPRS 25212

The Problems of Private Agricultural Producers, 26 pp.
SERBIOCROATIAN, per Econostra Poljoprivreda, No 7, 1964, pp 5-22.
JPRS 25892

SERBIOCROATIAN, per Econostra Poljoprivreda, No 6, 1964, pp 315-334.
JPRS 25824

Some Problems in Yugoslav Employment Policy, by Ivan Klimaz, 16 pp.
SERBIOCROATIAN, per Ekonomisti Projekti, No 6, 1964, pp 337-351.
JPRS 25204

SERBIOCROATIAN, per Ekonomisti Projekti, No 6, 1964, pp 337-351.
JPRS 25898

SERBIOCROATIAN, per Ekonomisti Projekti, No 5, 1964, pp 13-23.
JPRS 26155

Developments of the Alliance of Trade Unions of Yugoslavia, 15 pp.
SERBIOCROATIAN, per Ekonomisti Projekti, No 5, 1964, pp 13-23.
JPRS 26155

SERBIOCROATIAN, per Jugoslovenski Projekti, No 3, 1964, pp 117-121.
JPRS 26294

SERBIOCROATIAN, per Nova Administracija, No 4, 1964, pp 203-222.
JPRS 25122

Some Negative Phenomena Accompanying the Introduction of New Materials in Administrative Department, by Zoran Potic, 9 pp.
JPRS 25112

SERBIOCROATIAN, per Nova Administracija, Vol XVII, No 6, 1964, pp 139-141.
JPRS 25578

Social Control of Prices and of Profit Margins in Commerce, by Rudolf Papist, 7 pp.
SERBIOCROATIAN, per Nova Administracija, Vol XVII, No 6, 1964, pp 139-141.
JPRS 25578

Old Prices of Yugoslav Porta, by J. Krnicelj, 15 pp.
SERBIOCROATIAN, per Pomorcni, Jan 1963, pp 211-217.
JPRS 25961

The Electric Power Economy in the Yugoslav Seven Year Plan, by Branko Cejic, 5 pp.
SERBIOCROATIAN, per Privredni Pregled, May 1964, pp 3-10.
JPRS 25972

Expanding the Arab Oil on the Socialized Farms, by Svetos Mihailovic, 32 pp.
JPRS 26124

SERBIOCROATIAN, per Telekomunikacija, No 9, 1964, pp 359-366.
JPRS 26272

JPRS 25578

The Needs for Chemical Fertilizer and the Basic Directions for Development of the Chemical Fertilizer Industry, 7 pp.
JPRS 25448
The People's Courts Will be Elected on 31 May, by BIBILI KURO, 7 pp.
BULGARIAN, pcp, "Dzhtita Popullore," No 2, Mar, Apr 1964, pp 2-6.
JPRS 25913

Albanian Delegates Criticize Soviet Actions at WFTU Minor's Conference in Moscow, May 1964, by Idris Dhaami, 6 pp.
JPRS 25905

JPRS 25950

JPRS 25927

Decree on Bulgarian State Secrets, 6 pp.
JPRS 25913

JPRS 25902

For Unity in the World Communist Movement and Against the Splitting Activity of the leadership of the Chinese Communist Party, 14 pp.
JPRS 25964

Bulgarian Editor Angelov Explains Socialist Revolution to Chinese, by Stefan Angelov, 22 pp.
JPRS 25620

Ivan Donev Discusses National Liberation Movement in Bulgarian Communist Party Theoretical Organ, by Ivan Donev, 14 pp.
JPRS 25620

JPRS 25146

JPRS 25625

JPRS 25111

JPRS 25711

For Increasing the Leading Role of the Primary Party Organizations in Bulgaria, 5 pp.
JPRS 25859

A Discussion of the Role of Party Committees, by V. Gedeonov, 5 pp.
JPRS 25859

Bulgarian Party Daily Says Chinese Impeachment of the Head of the National Liberation Struggle, by A. Plevin, 7 pp.
JPRS 25902

The Party Responsibility of Journalists, 10 pp.
JPRS 25904

Davide and the Communist Party of Czechoslovakia, by V. Plievova, 8 pp.
JPRS 25604

JPRS 25927

JPRS 25111

The Case of I. Vitk, Consequences and Reasons, by Vladimir Milkozy, 1 pp.
JPRS 25111

French Journalists Comment on Situation in Rumania, by Nicolas Bethoux, 7 pp.
JPRS 25904

JPRS 25436

Thorez Surrenders to Rocket, by Martin Sellier, 6 pp.
JPRS 25436

Do the Germans Still Understand Each Other, by Friedrich H. Neumann, 5 pp.
JPRS 25148

German Columnist Strohm Says Conflict Leads to Increasing East European Independence, by Karl Gustav Strohm, 5 pp.
JPRS 25658

East German Analysts of the Conflict, by Harry Ott, 22 pp.
JPRS 25436

Socialist Conquests for Newly Independent Developing Countries, by John Passche, 13 pp.
JPRS 25444
Eastern Europe
Political (Contd)

The Opposition Against Ulbricht, by Joseph Scholmer, 6 pp.
JPRS 26116

JPRS 25913

The Dual Juridical Nature of the People's Councils as State Organs and Public Organizations, by Vasile Nicolecu, 13 pp.
ROUMANIAN, per, Justitia Nova, Jun 1964, pp 3-4.
JPRS 26111

JPRS 26353

Republic Level and Provincial Administrative Agencies in the Feudal Period, by D. Sua, 13 pp.
RUMANIAN, per, Romana, No 2, 3, 1964, pp 153-162.
JPRS 25804

SERBO-CROATIAN, per, Proletar, Vol XVI (54), No 1, 2, 1964, pp 5-24.
JPRS 25501

Yugoslav Arguments Against Soviet Theory of All-National Socialism, by Miroslav Sandov, 26 pp.
SERBO-CROATIAN, per, Proletar, Vol XVI (54), No 1, 2, 1964, pp 51-70.
JPRS 25501

SERBO-CROATIAN, per, Proletar, Vol XVI (54), No 5, 1964, pp 201-220.
JPRS 25904

Cadro Changes and the Work of the Operaion Committee of the Alliance of Communists of Yugoslavia, 10 pp.
JPRS 25904

SERBO-CROATIAN, per, Uprava, Vol XII, No 1, 2, 1964, pp 42-58.
JPRS 26111

The Status and Functions of the KOTAR/SKRUZ Administration, by Jozef Garic, 9 pp.
SERBO-CROATIAN, per, Uprava, Vol XII, No 1, 2, 1964, pp 59-66.
JPRS 26111

General Functions to be Considered in Elaboration of Communal Statutes, by George Djure, 7 pp.
SERBO-CROATIAN, per, Uprava, No 3, 4, Jul 1964, pp 131-156.
JPRS 25904

Eastern Europe
Military

Principles of Ethics of an Officer of the People's Army, 9 pp.
POLISH, np, Zeszyty Wojskowe, 21 May 1964, pp 4-12.
Enc No 1, to ALBANIA, Warsaw.
Navy 2578005264

Regulation on Enforcing the Rights of Disabled War Veterans to Free and Privileged Transportation, 14 pp.
SERBO-CROATIAN, per, Student List, JPR 25501, No 20, 1964, pp 456-459.
JPRS 26181

Law on Maritime Prizes and War Prizes at Sea, 13 pp.
SERBO-CROATIAN, per, Student List, JPR 25501, No 26, 21 Jun 1964, pp 477-481.
JPRS 26181

Geographic

Characteristics and Methods of Cartographic Representation, by A. Hitner.
ACSI I 4616-4
ID 2204014864

The Arrangement of Names on Maps, by H. Imhof.
ACSI I 4616-11
ID 2204014864

The Revision of Maps, by H. Bump.
ACSI I 4616-12
ID 2204014864

Sociological

Health in the Service of the People, by Cyril Pinotti, 5 pp.
JPRS 26109

Concerning the Conditional Pardoning of Guilties, by Piro Terpi, Xhievedet Helq, 6 pp.
ALBANIAN, per, Urgjenes Popullor, No 2, Mar, Apr 1964, pp 31-35.
JPRS 25913

Albanian Writer Criticizes French Communist Philosophy Against Socialism, by M. Nestoriu, 9 pp.
JPRS 26029

Morality Situation and the Average Longevity of the Life Span of Albanians, by Pasko Veko, 5 pp.
ALBANIAN, per, Ekonomia Pugullor, No 3, May 1964, pp 84-85.
JPRS 26109
Sociological (Contd)

For the Correct Combining of Social and Personal Interests and Moral and Material Incentives, 12 pp.
ALBANIAN, per. Pravda Partisan, No 6, 1964, pp 3-11.
JPRS 26109

Educational Cadres the Key to Improvement of Our Schools, by Hamit Bregja, 19 pp.
JPRS 26109

Let us Emphasize the Role of the Controller and Examiner in Protecting Socialist Property, by Petar Konj, 5 pp.
JPRS 26109

On the Proper Combining of Moral and Material Incentives, by Munti Congo, 0 pp.
JPRS 26174

Foreign Language Training Courses, by D. Popova, 5 pp.
JPRS 26158

Education During the Years of the Bulgarian People's Government, by Illyu Tachev, 0 pp.
JPRS 26190

JPRS 2518

The Role of the Worker as a Class in the Construction and Triumph of Socialism in Bulgaria, by Konstantin Doychev, 18 pp.
JPRS 26292

JPRS 26292

JPRS 26077

BULGARIAN, per. Pravde Minda, No 1, Jan-Feb 1964, pp 67-75.
JPRS 25990

Bulgarian Contemporariness in Literature, by Dr. Vavov, 5 pp.
BULGARIAN, per. Rabotnichestvo Delo, 5 Jul 1964, pp 3.
JPRS 26146

JPRS 25538

JPRS 25538

Factors in Job Accident, by Osman Adiv, 6 pp.
JPRS 25538

JPRS 26196

JPRS 26196

The Relationship Between the Life and Mortality Rates of the Czechoslovak Population, by Zdenek Vavre, 7 pp.
JPRS 26196

JPRS 25964

JPRS 26114

JPRS 25966

Great Cultural Advance in Poland, by Zygmunt Balicki, 8 pp.
JPRS 25966

20 Years of Vocational Training, by Michal Godlewski, 7 pp.
JPRS 25966

Training of Highly Qualified Cadre in People's Poland, by Zygmunt Balicki, 5 pp.
JPRS 25966

Changes in the Educational Pattern of the People, by Michal Charszewicz, 6 pp.
JPRS 25966

We Poland. Sociological Data on Poland, by Zygmunt Balicki, 12 pp.
JPRS 25914
Eastern Europe
Sociological (Contd)

Rumanian Education Takes a New Step in Advance
by Ion Borca, 5 pp.
RUMANIAN, pp. Gazeta Invatantului,
JPRS 25558

Interpretation of Juridical Norms in the
Rumanian People’s Republic,
by Dumitru Pascalea, 24 pp.
RUMANIAN, pp. Constitutia Noa, No 4, 1964,
pp 3-20.
JPRS 25518

Medical Care for Mothers and Offspring,
by M. Mastei, 6 pp.
RUMANIAN, pp. Muncitorul Sanitar, 30 May 1964,
pp 1, 3.
JPRS 25518

Provisions for Temporary Working Disability in
Enterprises and Institutions, by Dan Suciu,
Ion Petrescu, 9 pp.
RUMANIAN, pp. Muncitorul Sanitar, 13 Jun 1964,
pp 1, 4.
JPRS 25518

Cooperation Between Medical Clinics and
Hospital Diagnostical Services, 6 pp.
RUMANIAN, pp. Muncitorul Sanitar, Vol XVI,
No 25, Jun 1964, pp 1, 3.
JPRS 25914

Development of Education in the RPR,
by Mila Balcescu, 14 pp.
RUMANIAN, pp. Revista de Statistica, Vol XII,
No 6, 1964, pp 34-44.
JPRS 30573

Judisdiction of Courts in Evaluating the Legality
SERBIAN, pp. Socijalna i Zdravstvena Politika,
JPRS 25710

Tetanus: A Health Problem,
by Dobrica Kosanovic-Cvetkovic, 5 pp.
SERBIAN, pp. Socijalna i Zdravstvena Politika,
JPRS 25710

Suspension of Unemployment Compensation
Payments During Temporary Inability to Work,
by Josip Holic, 6 pp.
SERBIAN, pp. Socijalna i Zdravstvena Politika,
JPRS 25710

Reform in Higher Education, by Djordje Katic,
7 pp.
SERBIAN, pp. Teknika, No 6, 1964,
pp 1003, 1004.
JPRS 25090

Modern Social Processes and Problems of Health
SERBOCROATIAN, pp. Pravda, No 5, 1964,
pp 455-476.
JPRS 26302

Problem of Professional and Scientific Work
In the Field of Primary Schooling,
by Ljubomir Kraeva, 9 pp.
SERBOCROATIAN, pp. Revija Zdravstvena i Pravna
Zakonodavstva, No 1, Jan, Feb 1964, pp 5-11.
JPRS 25263

Results of Questionnaire on Professional
Qualifications of Agricultural Cadres,
by Nada Djokic, 14 pp.
SERBOCROATIAN, pp. Revija Zdravstvena i Pravna
Zakonodavstva, No 1, Jan, Feb 1964, pp 11-20.
JPRS 26263

Recommendation on Action to Eliminate Crime,
5 pp.
SERBOCROATIAN, pp. Student, No 23, 3 Jun 1964,
pp 435-439.
JPRS 25718

Agreement on Social Insurance for Baptists Ministeirs,
9 pp.
SERBOCROATIAN, pp. Student, No 23, 3 Jun 1964,
pp 446-449.
JPRS 25558

Agreement on Social Insurance for Priests of
the Old Catholic Churches, 9 pp.
SERBOCROATIAN, pp. Student, No 23, 3 Jun 1964,
pp 460-463.
JPRS 25558

Some Views on Sociological Developments and
Ideological Conceptions in Yugoslav Reality,
SERBOCROATIAN, pp. Socijalna Politika, Vol VII,
No 5, 1964, pp 571-573.
JPRS 25904

The Reactivation of Local Societies at
Overlap Level, by Bozidar Pija, 18 pp.
SERBOCROATIAN, pp. Nastavak, No II, 1, 2, 1964,
pp 32-40.
JPRS 26111

WESTERN EUROPE

Economic

Our Renewed Freight Car Stock: Structure and
Purpose, 5 pp.
JPRS 26301

West German Views on the East German
Economic Crisis, by G. Thalheim,
Bruno Glatte, 13 pp.
JPRS 25369

Political

Secretary General of Portuguese Communist
Party Interviewed by Alvaro Cunhal, 5 pp.
PORSH, No. Alior Republica, 3 Jun 1964,
pp 1, 8.
JPRS 26484
Six French Communist and Socialist Debares:
Unity, 17 pp.
FRENCH, per, La Debat Communista, No 29, 15 Jul 1964, pp 1-13.
JPRS 26029

Central Committee Explains Recent Purges:
5 pp.
JPRS 26285

FRENCH, np, France Observateur, No 742, 23 Jul 1964, pp 4, 5.
JPRS 26029

JPRS 26260

JPRS 26182

French Communist Party 17th Congress and Thorez Leadership, 6 pp.
FRENCH, per, Quarante Internationale, No 22, Jul 1964, pp 4-69.
JPRS 26260

A Trotskyite Analysis of Conflict, by E. German, 33 pp.
FRENCH, per, Quarante Internationale, No 22, Jul 1964, pp 14-29.
JPRS 26260

FRENCH, np, Socialisme ou Barbarie, No 37, Jul-Sep 1964, pp 54-58.
JPRS 26711

Rotterdam Dissidents Accuse Netherland Communist Party of Revisionism in Article in Belgian Pro-Chinese Organ, 8 pp.
JPRS 26182

Swiss Independent View of Moscow’s Position, 6 pp.
JPRS 25301

JPRS 25002

JPRS 25484

GERMAN, per, Weg und Ziel, No 5, 1964, pp 337-362.
JPRS 25800

ITALIAN, per, Correspondence Socialista, Vol V, No 6, 1964, pp 285-289.
JPRS 25800

ITALIAN, per, Corrente Socialista, Vol V, No 6, 1964, pp 300-303.
JPRS 25800

Marxist Economic Thought and the Present, an Analysis by Italian Socialist Antonio Landolfi, by Antonio Landolfi, 40 pp.
JPRS 25860

Express Views on Unity and Dissidence, by Mario Paparezi, 6 pp.
ITALIAN, per, Nuova Unità, No 6, 1964, pp 1, 2.
JPRS 25800

ITALIAN, np, Rivista, 30 May 1964, pp 14-20.
JPRS 25484

Italian Communitists Discuss Lenin Theory of State, by Luciano Gruppil, 10 pp.
JPRS 25950

Rome Weekly Reviews Zaccaria Book on Italian Victims of Stalinism, 8 pp.
ITALIAN, np, La Nuova Italia, 15 Jul 1964, p 5.
JPRS 25800

NORWEGIAN, np, Internasjonal, 14-20 Jul 1964.
JPRS 26180

Spanish Communist Party Scores Chinese Activities, 5 pp.
SPANISH, np, Mundo Obrero, No 8, 16-30 Apr 1964, pp 1-5.
JPRS 25430

ALBANIAN, np, Pamphlet, 7 Aug 1964, pp 1, 3.
JPRS 25884

CROATIAN, np, Komunist, 9 Jul 1964, p 2.
JPRS 25711

JPRS 25058

DANISH, np, Land og Folke, 20 Jul 1964, p 2.
JPRS 20182

De Vries Expounds Criticism of Pro-Chinese and De Vries Views, by J. de Vries, 7 pp.
DUTCH, np, De Brieg, No 17, 13 Jun 1964, pp 4-8.
JPRS 25000
Western Europe
Political
(Contd)

JPRS No. 25840

FINNISH Communist Discusses Coexistence, National Liberation, and Chinese Dissidence,
by Mirjam Viro-Tuominen, 31 pp.
JPRS No. 26029

Disassociate Discusses Point 1 of Joint Declaration on PCF Renewal, 3 pp.
JPRS No. 26029

JPRS No. 26029

JPRS No. 26029

JPRS No. 26029

Public Opinion Poll Shows French no Longer Fear Communists, by Jean Pernot, 5 pp.
JPRS No. 26029

Attempts to Form a Little Party Criticized, by Jacques Chamard, 11 pp.
JPRS No. 26844

Hitler Analyzes Significance of Theres Death, by David Ellsperg, 6 pp.
JPRS No. 26844

JPRS No. 26844

Military

The Air Force and the Atom,
by Jean Blanchais, 5 pp.
JPRS No. 26522

Plane or Weapon, by Jean Blanchais, 6 pp.
JPRS No. 26522

AFCRA
Economic

ARABIC pp. 1-11, Jul 1964, pp. 1-11
JPRS No. 25837

Egypt and the Question of Aid by Socialist Countries to the Underdeveloped Countries, by
Masoud Barry, 13 pp.
JPRS No. 25837

For a Rural Development Structure,
by J. Deri, 16 pp.
JPRS No. 25837

Galvin, Leon M., Economic
by Anidex (auada), 11 pp.
JPRS No. 25837

The Economy and Production of Gabon in 1963, by
Paul Godfroy, 10 pp.
JPRS No. 25837

Gabon's Interim Development Program and the Working Out of a Genuine Development Plan,
by Yvon Corvalan, 11 pp.
JPRS No. 25837

Oil With the Firm Off-Shore Deposits a New Hope for Oil has Appeared in Gabon
by Gerard Chacun, 6 pp.
JPRS No. 25837

Electricity the Present Situation and the Hydroelectric Projects Under Study,
JPRS No. 25837

The Road Program, by Marcel Sandoumbou, 6 pp.
JPRS No. 25837

The Trans-Cameroonian Railroad and its Extensions, by Paul Derdour, 6 pp.
JPRS No. 25837

JPRS No. 25837
Political

The Class Nature of the States of Tropical Africa, by N. S. Mersedabak, 15 pp.,
BULGARIA, per, Pravna Mira, No 2, May, Apr 1964, pp 51-71.
JPRS 26037

FRENCH, JPRS, 16 Sep 1964, pp 1-6.
JPRS 26049

FRENCH, per, Democratic Nouvelle, No 7, 8, 9 Jul 1964, pp 15-22.
JPRS 25940

Government Control of Information Declared, by Mamadou Golo, 5 pp.
FRENCH, per, Malian Hebdomadaires, 3 Aug 1964, p 3.
JPRS 26117

A New Congo in Three Months, by Albert Kasumba, 6 pp.
JPRS 25949

PRESN, per, X. de Laplace, 22 Aug 1964, pp 9, 10.
JPRS 26168

FRENCH, per, France Observateur, No 744, 6 Aug 1964, p 9.
JPRS 26168

Constitution Congress of the Union of Iranian Students, 5 pp.
JPRS 25749

African Press Comment on Tshombe's Return to Power, by Ken, Jean Brama et al., 8 pp.
FRENCH, per, Horizon, 12, 13 Jul 1964, pp 1, 3.
JPRS 25670

Black Africa at the Judging Point of its Destiny, by Jacques Arnaud, 10 pp.
27 Jun 1964, p 2;
29 Jun 1964, p 2.
JPRS 25870

Address by the King at the OAU Summit Conference in Lusaka, 8 pp.
PRESN, per, Information, No 122, 3 Aug 1964, p 3.
JPRS 26268

FRENCH, per, Le Monde, No XXI, No 588, 6 Aug 1964, p 7.
JPRS 26268

The Struggle of Portuguese Guinea, by Gerard Chaitan, 12 pp.
FRENCH, per, Partisan, No 10, Jun-Aug 1964, pp 45-51.
JPRS 25775

PRESN, per, Quotidiano Internazionale, No 24, Jul 1964, pp 30-38.
JPRS 26127

The Crisis of Angolan Nationalism, by Mario de Andrade, 11 pp.
PRESN, per, Revolution Africain, No 74, 27 Jun 1964, pp 72-74.
JPRS 25837
Africa
Political (Cont'd)

JPRS 20175

The Second MUPC Congress In Saint Louis, by Alcino L. da Gome, 3 pp.
JPRS 26799

Algeria in Third Year of Independence, 7 pp.
FRENCH, paper, Sous le Drapeau du Socialisme, No 7, 8, 1964, pp 1-3
JPRS 25049

FRENCH, paper, Sous le Drapeau du Socialisme, No 7, 8, 1964, pp 5-6.
JPRS 25775

Continuation of the Work of the Seminar, 8 pp.
JPRS 25900

JPRS 25900

Fourth Session of the Seminar of the Nigerian Cadres, 5 pp.
JPRS 26200

President Dorf's Message to the Nation on the Occasion of the Fourth Anniversary of Niger's Independence, 6 pp.
JPRS 26200

JPRS 26175

Geography:

JPRS 23480

Cartography in the Congo Brazzaville, Notes on the Transliteration of Place Names, by Andre Jacquet, 16 pp.
JPRS 21907

FRENCH, paper, La République, 12 Jun 1964, p 6.
JPRS 25486

Africa
Sociological

JPRS 20141

JPRS 25480

The Ba-Kuba Tribes and Related Clans, by J. Vanhina, 47 pp.
JPRS 25350

The Foulani, by Amadou Hamadi Bi, 6 pp.
FRENCH, paper, Afrique, No 34, May 1964, pp 20, 27.
JPRS 25480

The Kwele, by Ndougo Agblemagnon, 6 pp.
JPRS 25480

Congolese Trade-Union Activities, 5 pp.
JPRS 26248

JPRS, no, Studies Congolaises, No 6, Jun, Jul 1964, pp 96-110.
JPRS 25799

FRENCH, paper, La Presse du Cameroun, 18 Aug 1964, p 2.
JPRS 26309

Myamba Interviewed on the OAU Conference Vis-a-Vis the African Refugee Problem, by Jules Chevallier, M. Myamba, 5 pp.
JPRS 26027

Former Leader of UGHE Interviewed, 6 pp.
JPRS 25870

History of the National Union of Berber Students, by Libiern Wisam, 4 pp.
FRENCH, paper, Revue Congolaise, No 8, 1964, pp 184-188.
JPRS 25460

FRENCH, paper, La Revue Congolaise, No 6, 17 May 1964, pp 1-5.
JPRS 25460

The Development of Rural Groupings in Morocco, 6 pp.
FRENCH, paper, La Vie Rurale, No 2214, 7 Aug 1964, pp 1-3.
JPRS 20299
Economic

New 40 Million Guinea Iron Rolling Plant Added to Steel Complex, 6 pp.
ARABIC, np, Al-Abrah, 22 Jul 1964, p 5.
JPRS 26291

How the Revolution has Brought About an Increase in the Peasant's Income: Nine Basic Principles Laid Down for an Agricultural Policy Which Made it Possible to Raise the Peasant's Standard of Living, by Ahmad Hamid An-Nashari, 8 pp.
JPRS 26219

The Penitentiary Scheme to Cover Independent Traders and the Self-Employed Penitentiary Minimum to be Brought on the Men's Working Day, 10 pp.
ARABIC np, Al-Abrah, 30 Jul 1964, pp 26, 27.
JPRS 26219

Political

Political and Economic Aspects of Arab Oil, 6 pp.
JPRS 26213

Israeli Arab Communities Score Chinese Danialence, 6 pp.
ARABIC, np, Al-Abrah, 24 Jul 1964, p 3.
JPRS 26260

JPRS 26219

Dr. Khaled Ad-Din El-Halili Speaks About the Socialist Divide and the Nationalized Firms, 6 pp.
ARABIC, np, Al-Abrah, 26 Jul 1964, p 5.
JPRS 26219

HEBREW, np, Kif Hamid, 19 Jul 1964, pp 2, 3.
JPRS 26229

Sociological

Six Young University Instructors Discuss Do Young Scientists and Intellectuals in Israel Close Themselves into Ivory Towers Detached From Public and Social Life, 14 pp.
JPRS 26219

Middle East
Sociological (Conta)

HEBREW, np, David Hasayana, 10 Jul 1964, pp 3-5.
JPRS 26197

Manpower Shortage Will Affect Development Plans, 5 pp.
HEBREW, np, Haaretz, 1 Jul 1964, p 10.
JPRS 26219

Surplus or Shortage of Physicians, by Shlomo Goral, 7 pp.
HEBREW, np, Lam涣, 6 Jul 1964, p 3.
JPRS 26219

Far East

Economic

The Current Task of Supply and Marketing Cooperatives, by Liang Yan, 7 pp.
CHINESE, rpt, No 2, 14 Feb 1964.
JPRS 25948

CHINESE, rpt, No 9, 18 Sep 1963.
JPRS 25928

Hongkew Travel Handbook, SHF-3337
CHINESE monograph, 100 pp.
JPRS

Learn From the Liberation Army and Stir up a New High Tide of Productive Construction, by Li Han-wu, 11 pp.
JPRS 25511

JPRS 25512

CHINESE, np, Chinese Pog, No 3, 8 Nov 1964, pp 10-14.
JPRS 25901

A Good Norm Official Who Operates Skillfully According to Policy, by Pu Sheng, 5 pp.
JPRS 25708

CHINESE, np, Shanghai Chi-chih, No 4, 1964, pp 1-8.
JPRS 25901

CHINESE, np, Shanghai Chi-chih, No 3, 1964, pp 7-10.
JPRS 25901

Chinese Deny Mutual Incentive as Factor in Building Socialism, 9 pp.
JPRS 25438
Far East
Economics (Contd)


INDONESIAN, np, Harian Rakjat, 10 Jul 1964, p 3, 4; 11 Jul 1964, pp 3, 4.

JPRS 26313

Great Success Achieved by Communists in the Four Year Plan and Elimination of All Weaknesses, by Djokosuwito, 9 pp.

INDONESIAN, np, Harian Rakjat, 13 Jul 1964, p 3.

JPRS 26313

For Improving the Work in the National Unified Front, by M. H. Lukman, 15 pp.

INDONESIAN, np, Harian Rakjat, 14 Jul 1964, p 3.

JPRS 26313


JPRS 26186

An Epoch-Making Change in Financial Management, 9 pp.


JPRS 25923

The Role and Function of Banks in Socialist Construction, by Ham Bang-ju, 8 pp.

KOREAN, np, Chosong Kyoung, No 5, 1964, pp 6-11.

JPRS 25923

For the Establishment of a Scientific System of Fisheries, 12 pp.


JPRS 25697

The State Budget and Aid From the Labor Class to the Farms, by Ch'o'o Yun-ju, 12 pp.

KOREAN, np, Kultojo, No 5, 5 May 1964, pp 8-14.

JPRS 25698

Production Experience at the Advanced Industrial Manufacturing Concerns, by Ham Hyun-duk, 6 pp.


JPRS 25698


KOREAN, np, Minju Choson, 2 Jul 1964, p 2.

JPRS 25698

The Relationship Between an Economic Control System and Socialist Construction, by Kim Chong-wan, 10 pp.

KOREAN, np, Minju Choson, 23 Jul 1964, pp 2, 3.

JPRS 25699

The Rational Utilization of Labor, by Kim Ch'ng-suk, 6 pp.

KOREAN, np, Nodong Sinmun, 2 Jun 1964, p 2.

JPRS 25923


JPRS 25778

To Fulfill the Two-Crop Policy of the Party, by Yun Hyung-ik, 5 pp.

KOREAN, np, Nodong Sinmun, 13 Jul 1964, p 2.

JPRS 25998

How to Plan the Major Products of Livestock Breeding Economy, by H. Monklo, 7 pp.


JPRS 25601

Far East
Economics (Contd)

The Auto Transport Plan Should be Directed Toward Meeting the Demand of Transportations of the National Economy, by T. Namjin, 6 pp.


JPRS 26230


MONGOLIAN, np, Edyn Dzasaag, Khyrkhy Anasul, No 2, 1964, pp 72-75.

JPRS 26230


MONGOLIAN, np, Umm, 20 Apr 1964, pp 2-8.

JPRS 25441


RUSSIAN, bk, Tyumen, Moscow, 1960, pp 53-72.

JPRS 26681


VIETNAMESE, np, Le Dong, No 1367, 16 May 1964, pp 1, 2.

JPRS 25481

Strengthens and Consolidates Labor Unions, by Dai Thuy, 8 pp.


JPRS 25888


VIETNAMESE, np, Le Dong, 4 Jul 1964, p 3.

JPRS 25914


VIETNAMESE, np, Nhiem Gia Kinh Th, No 21, Jun 1964, pp 3-5.

JPRS 25109

The Position of the Forest Products Industry and Measures to Strengthen its Trade, by Hoang Dao, 18 pp.


JPRS 25102

Successful Meeting of Advanced Agricultural Cooperatives and Production Teams in the Midland and Highland, by Quang Thanh, 24 pp.

VIETNAMESE, np, Nhiem Gia Kinh Th, No 21, Jun 1964, pp 72-79.

JPRS 25688

Land Exchange and Reapportionment in Nghe An, by Pham Thien, Tran Xuan Thuuyen, 6 pp.


JPRS 25688

Successful Completion of Business Administration II, by Le Thanh Nhi, 7 pp.

VIETNAMESE, np, Nhan Dan, No 370, 20 May 1964, p 3.

JPRS 25773

Successful Completion of Business Administration III, by Le Thanh Nhi, 8 pp.

VIETNAMESE, np, Nhan Dan, No 370, 21 May 1964, p 3.

JPRS 25773


VIETNAMESE, np, Nhan Dan, 31 May 1964.
Far East
Economics (Contd)

Vietnamese Labor Delegation Visits Albania,
by Tran Danh Tuyen, 8 pp.
VIETNAMESE, np, Nhan Dan, No 3770, 3770,
5, 6 Jun 1964, p 4, 3.
JPRS 25439

Rightist Tendencies and Lack of Unity Damaged
the Tan Lieu Cooperative, by Nguyen Van Tien,
5 No 3770, 6 Jun 1964.
VIETNAMESE, np, Nhan Dan, p 3720, 6 Jun 1964,
p 2.
JPRS 25439

Hai Phong Effort to Increase Production.
by To Thin, 5 pp.
VIETNAMESE, np, Nhan Dan, 9 Jun 1964, p 3.
JPRS 25085

Measures to Solve the Food Problem,
by Lo Viet Luong, 10 pp.
VIETNAMESE, np, Nhan Dan, 24 Jun 1964,
27 Jun 1964, p 2.
JPRS 25585

Production Difficulties in a Cement Plant,
by Chan Nang, 7 pp.
JPRS 25773

Doctor Lungs Needed, by Tran Van Quoc, 5 pp.
JPRS 25779

Third Level Cooperatives Show Good Results,
by Le Quang Tuan, 6 pp.
JPRS 25779

Raise Product Quality and Pay Wages According
to Output, by Luong Chil, 5 pp.
JPRS 25779

Thanh Hoa Machine Factory Makes Improved
Harvester, by Ngon To, 7 pp.
VIETNAMESE, np, Nhan Dan, 7 Jul 1964, p 3.
JPRS 25773

Soap, by Hoang Minh, 7 pp.
VIETNAMESE, np, Nhan Dan, 8 Jul 1964, p 3.
JPRS 25802

Intensive Cultivation is the Primary Means of
Developing Our Agriculture, by Phan Hung,
15 pp.
VIETNAMESE, np, Nhan Dan, 9 Jul 1964, p 2.
JPRS 25773

Increasing the Labor Productivity of the
Cooperatives, by Van Nien, 4 pp.
VIETNAMESE, np, Nhan Dan, 9 Jul 1964,
p 2.
JPRS 25773

Ten Years in Mining, by Anh Vu, 9 pp.
VIETNAMESE, np, Nhan Dan, 13 Jul 1964, p 2.
JPRS 25887

Utilization of Light Machinery in Agriculture,
by Tran Doc, 7 pp.
VIETNAMESE, np, Nhan Dan, 22 Jul 1964, p 2.
JPRS 25988

The Use of the Cooperative's Labor Force in
Increasing Collective Economic Activity,
5 pp.
VIETNAMESE, np, Nhan Dan, 3 Aug 1964, p 2.
JPRS 26028

Let us Organize and Guide Farmers in Building
Houses and New Rural Areas, 8 pp.
VIETNAMESE, np, Nhan Dan, 4, 5 Aug 1964, p 2.
JPRS 26028

Far East
Economics (Contd)

Experiences Drawn From the Transportation
Operations During the War at Dien Bien Phu,
by Vu Van-Bon, 6 pp.
VIETNAMESE, np, Quan Doi Nhan Dan, 2 Jul 1964,
p 2.
JPRS 25588

Deviations in Saigon Tan, by Nguyen Phan Ngoc, 6 pp.
VIETNAMESE, np, Tap Chi Van Hoc, No 6, 1964, pp 31-36.
JPRS 25988

Built 45, by Tran Anh, 6 pp.
JPRS 25802

Realization Prospects of 1964 Plan,
by Haung Hoan, 11 pp.
VIETNAMESE, np, Thoi Tu Hoat Dong Khong
Hoc, No 6, 9 Jun 1964, pp 4-7.
JPRS 25499

Achievements of the Agricultural Science
VIETNAMESE, np, Thoi Tu Hoat Dong Khong
Hoc, No 9, May 1964, pp 8-11.
JPRS 25499

Political

A General Survey of the First-Eight National
Congress of the Communist Youth League,
by Le Van Than, 6 pp.
CHINESE, np, Chong Luo Chung可知., No 11,
1 Jun 1964, pp 28, 29.
JPRS 25566

7 May Reply of Central Committee of the Communist
Party, to CPSU, 5 pp.
CHINESE, np, Hung C7, 1964.
JPRS 24438

Political Work in the Life Line for All Other
Work, 8 pp.
CHINESE, np, Hung C7, No 6, 31 Mar 1964.
JPRS 25498

28 July 1964 Central Committee-CPSU Reply to
Central Committee-CPSU Letter Dated 15 June
CHINESE, np, Hung C3, No 14, 31 Jul 1964,
pp 1-10.
JPRS 26148

The Cultivation of Successors as a Long Term
Project in Revolutionary Work, 10 pp.
CHINESE, np, Hung C3, No 14, 31 Jul 1964,
pp 34-39.
JPRS 26148

Khurashchev and the Dissolution of the Communist
Bloc, by Urban Tulla, 6 pp.
FRANC, np, France Observateurs, No 745,
JPRS 25260

Latin Newsletter Says Chinese Want UNR
out of Afro-Asian Organizations, 7 pp.
FRENCH, np, Le Monde, No 221, 16 Jul 1964, pp 2, 3.
JPRS 25840
With the Spirit of the Red Buffalo, Consolidate a Great Communist Organization, by D. N. Altai, 8 pp.
MONGOLIAN, np, Altai, 6 Jul 1964, p. 3.
JPRS 25781

Twenty-Two Resolutions at First National PKI Conference, 5 pp.
INDONESIAN, np, Altai, 7 Jul 1964, pp 1, 4.
JPRS 25781

Sudarmo Consolidates the Efficiency and Mility of the Party Organization, 16 pp.
INDONESIAN, np, Altai, 9 Jul 1964, pp 3, 4.
JPRS 25781

JPRS 26313

JPRS 26038

JAPANESE, np, Akahata, 24 Jul 1964, pp 11, 12.
JPRS 26219

For the Unification and Growth of the World Peace Movement, 5 pp.
JAPANESE, np, Akahata, 30 Jul 1964, p. 2.
JPRS 26313

The Tokyo Manifesto, the Second Peace Conference of World Religious Leaders, 3 pp.
JPRS 28313

JAPANESE, np, Akahata, 1 Aug 1964, p. 1.
JPRS 26219

Akhata Calls for Unity Against US and NATO Policy, 6 pp.
JPRS 26219

The Fifteen-Year Path of the Fatherland Unification Democratic Front, 6 pp.
KOREAN, np, Minju Choson, 21 Jun 1964, p. 2.
JPRS 25778

Let Us Carry Out the Commercial Policy of the Party, by Kim Se-bong, 8 pp.
KOREAN, np, Minju Choson, 30 Jun 1964, p. 2.
JPRS 25778

KOREAN, np, Nosong Sinmun, 3 Jul 1964, pp 2, 3.
JPRS 26205

Let Us Meet the Demands of the Party by Intensifying the Activities of the Craft Union Organizations, by Yi Chong-su, 8 pp.
KOREAN, np, Nosong Sinmun, 9 Jul 1964, pp 2, 3.
JPRS 26204

MONGOLIAN, np, D. Jang, 6 Jul 1964, pp 30-46.
JPRS 26230

JPRS 26209

Socialist Democracy Must be Developed Effectively, by P. S. Mardon, 5 pp.
JPRS 25996

Secretaries of Primary Party Organizations, 5 pp.
MONGOLIAN, np, D. Jang, No 5, 1964, pp 7-11.
JPRS 26203

Questions of Production and Consumption During Socialism, by D. Surmaas, 6 pp.
MONGOLIAN, np, D. Jang, No 6, 1964, pp 72-77.
JPRS 26203

Pacts of Outstanding Successes and Gains, by P. Nergui, 8 pp.
MONGOLIAN, np, D. Jang, No 6, 1964, pp 83-90.
JPRS 26203

MONGOLIAN, np, D. Jang, 27 May 1964, p 5.
28 May 1964, pp 2-5.
JPRS 25860

No Justification for Chinese, says Andree Talbot, by Andree Talbot, 5 pp.
RUSSIAN, np, Pravda, 16 Jun 1964.
JPRS 26484

 CPSU Central Committee Hails Japan Communist Party's Pro-Chinese Line, 35 pp.
RUSSIAN, np, Pravda, No 4, 11 Jul 1964, pp 8-30.
JPRS 26305

RUSSIAN, np, Pravda, 2 Sep 1964, p. 2.
JPRS 26276

YUGOSLAVIAN, np, Borba, 11 Jul 1964, p. 3.
JPRS 25800

A Serious Strategic Failure of the Amerim Empire, by Le Thang, 3 pp.
VIETNAMISH, np, Dong Thap, p. 573, 22 May 1964, p 10.
JPRS 25811

Assessment of Documents, 9 pp.
VIETNAMISH, np, Nhan Dau, 11 Jun 1964.
JPRS 25548

Step Up Our Nationalities Work, by Le Quang Ha, 7 pp.
VIETNAMISH, np, Nhan Dau, 11 Jun 1964, p. 2.
JPRS 25548
Far East
Political

Third National Assembly Holds First Session, 5 pp. VIETNAMESE, np, Nhan Dan, 28 Jun 1964, p 1. JPRS 25585

Report From the Government at the First Meeting of the Third Session of the National Assembly I., by Pham Van Dong, 18 pp. VIETNAMESE, np, Nhan Dan, No 3743, 28 Jun 1964, pp 2, 3. JPRS 25779

Report From the Government at the First Meeting of the Third Session of the National Assembly II., by Pham Van Dong, 22 pp. VIETNAMESE, np, Nhan Dan, No 3743, 29 Jun 1964, pp 4, 5. JPRS 25779

Decision by the Council of Ministers on Examination, Validation and Publishing of Results of the National Plan, 7 pp. VIETNAMESE, np, Nhan Dan, No 3774, 30 Jul 1964, p 3. JPRS 25215

Importance of the Campaign to Karamlah Four Good Petty Chapters, by Chu Ruy Man, 6 pp. VIETNAMESE, np, Quan Doi Nhan Dan, 26 May 1964, p 2. JPRS 25439

Major Role of Political Struggle in the Current Resistance in the South, by Nguyen Minh Vy, 5 pp. VIETNAMESE, np, Thong Nhat, No 365, 20 Jun 1964, pp 1, 3. JPRS 25971

Military

Hold the Rifle Tightly In Your Hands, by Kuang-chung, 5 pp. CHINESE, per, Chung-chung Ch'i-fung-cheng, No 13, Jul 1964, pp 3-5. JPRS 25900

How the Officers and Men of Our Army Should Study the Works of Mao Tse-Tung, by Hain Chung-chih, TI Fu-chung, 5 pp. CHINESE, per, Hung GTH, No 10, 1964. JPRS 25438


Promote the Glorious Tradition In Our Army, by Thanh Loc, 5 pp. VIETNAMESE, np, Nhan Dan, 1 Jun 1964, p 2. JPRS 25459

Introducing the Experiences of Company Commander Kuo Hsing-fu of the People's Liberation Army of China, by Hoang Van Thai, 9 pp. VIETNAMESE, np, Quan Doi Nhan Dan, 28 May 1964, pp 1, 2. JPRS 25439

Geographic


New Records of Glacial Relics in the Middle and Lower Reaches of the Yangtze, by Hung Ti-fan, Yang Shih-chou, 8 pp. CHINESE, per, Ku-hoan Yung-cheng, No 6, 1964, pp 544-551. JPRS 25128

Sociological


Do Peasants Belong to the Hostile Landlord Class, by GHI Hsia, 28 pp. CHINESE, per, Chie-hsien Yen-chiu, No 3, 1964, pp 10-34. JPRS 25797

Rural Villages Form a Large Furnace for Steeling the Younger Generation, by Lin Nuan, 7 pp.
CHINESE, per, Chung-kuo Ch'ing-yü, No 11, 1 Jun 1964, pp 10-11.
JPRS 25546

From a Tender Girl to a Frontier Builder, by Yu Shan-ling, 5 pp.
CHINESE, per, Chung-kuo Ch'ing-yü, No 11, 1 Jun 1964, pp 11-12.
JPRS 25546

Issue on Principles in Order to be a Good Guardian, by Li Kuang-yuen, Nieh Peng-ling, 6 pp.
CHINESE, per, Chung-kuo Ch'ing-yü, No 11, 1 Jun 1964, pp 15-17.
JPRS 25546

The Devious Process of Ideological Progress, by Li Kuang-yuen, 6 pp.
CHINESE, per, Chung-kuo Ch'ing-yü, No 13, Jul 1964, pp 14-15.
JPRS 25900

Develop Class Education on a Routine, by Chang Hwa-mu-yeon, 7 pp.
CHINESE, per, Chung-kuo Ch'ing-yü, No 13, Jul 1964, pp 20-21.
JPRS 25900

CHINESE, per, Hsing-ch'í, No 11, 7 Jun 1964, pp 1-5.
JPRS 25987

JPRS 25987

JPRS 25987

How to Understand Absolute Truth, by T'ou T'ieh-chen, 13 pp.
CHINESE, per, Hsing-ch'í, No 11, 7 Jun 1964, pp 37-45.
JPRS 25987

Great Revolution on Culture Front, 6 pp.
CHINESE, per, Hsing-ch'í, No 12, 30 Jun 1964, pp 1-4.
JPRS 25998

Racial Question is Especially Class Question, by Chiang Ch'ung-hao, Ruth Che-min, 11 pp.
JPRS 25998

A Trivial Matter Changed into an Important Good Matter, by Yang Ch'ing-hua, 5 pp.
CHINESE, per, Hsing-ch'í, No 12, 30 Jun 1964, pp 40-44.
JPRS 25998

Translates from Hsing-ch'í, 46 pp.
CHINESE, per, Hsing-ch'í, No 13, 14 Jul 1964, pp 1-33.
JPRS 26011

On the Reform of the Peking Opera, by P'ing Chen, 11 pp.
JPRS 26148

Ten Great Years of Socialist Revolution and Socialistic Construction in Vietnam, by Chu Ch'ieh-chen, 10 pp.
CHINESE, per, Ch'ü-nh, No 14, 31 Jul 1964, pp 25-33.
JPRS 26148

Socialist Dramatic Arts to Serve Socialist Economy, by K'uo Ch'ing-yü, 24 pp.
JPRS 26315

A Critique of the Philosophical Basis of Chung Ku-ch'ing's Conception of Art, by Yi T'ai, 19 pp.
JPRS 26315

JPRS 26300

Brief News Items on Language Reform Activities, 19 pp.
JPRS 26300

Victory of Indonesian Revolution With Dialectical and Historical Materialism, by Njoro, 18 pp.
INDONESIAN, per, Harih Raja, No 9, 10 Jun 1964.
JPRS 25998

A Way to Conquer the Class Distinction Between the Labor and Farming Classes, by Yi Su-k'ung, 13 pp.
KOREAN, per, Kukjö, No 247, May 1964, pp 2-7.
JPRS 26098

JPRS 26098

Individuality and Socialism, by Ch'ung Yong-sik, 12 pp.
JPRS 26098

KOREAN, per, Kukjö, No 247, May 1964, pp 29-34.
JPRS 26098

Creating a Typical Model for the Labor Class, by Yi Sung-suk, 7 pp.
JPRS 26098

The Proletarian Class and Rural Assistance, by Pak Il-k'ung, 8 pp.
KOREAN, per, Kukjö, May 1964, pp 7-12.
JPRS 26098
KOREAN, np, Nodong Sinmun, 12 Jul 1964, p 2.
JPRS 26289

Party Policy to Consolidate an Alliance Between the Proletarian Class and the Farmers,
by Hong Sunyong, 10 pp.
KOREAN, np, Nodong Sinmun, 22 Jul 1964, pp 3, 4.
JPRS 26290

The Rural Cultural Revolution, by Chang Chul-hwan, 5 pp.
KOREAN, np, Nodong Sinmun, 28 Jul 1964, p 2.
JPRS 26295

MONGOLIAN, np, Edlyn Dzangii, 28 Jul 1964, pp 54-55.
JPRS 26230

JPRS 26233

MONGOLIAN, np, Namyn Amtrad, No 6, 1964, pp 18-23.
JPRS 26293

Vinh Yesterday and Today, by Huu Xuan, 10 pp.
VIETNAMISH, np, Quot Prix, 24 May 1964, pp 8, 9.
JPRS 25487

Talks to Parents on Future Of Youth, by Phong Thieu Son, 9 pp.
VIETNAMISH, np, Quot Prix, 14 Jun 1964.
JPRS 26314

Half a Century After Nine Years of Liberation, 7 pp.
VIETNAMISH, np, Vach Lap, 15 May 1964, p 3.
JPRS 25481

Actively Improve One's Thinking to Better Serve the Revolution, by Tran Khue, 13 pp.
VIETNAMISH, np, Quot Prix, No 673, 22 May 1964, p 9.
JPRS 25481

VIETNAMISH, np, Quot Prix, No 7, 1964, pp 1-6.
JPRS 25918

Our Efforts to Liberate the People Will Be Completely Successful, by Trong Huong, 10 pp.
JPRS 25918

VIETNAMISH, np, Quot Prix, No 7, 1964, pp 40-47.
JPRS 25918

Ten Years of Struggle, Ten Years of Victory, by Phan Thanh, 14 pp.
JPRS 25918

Raising the Quality of the Work-Study Movement Among Cadres, Workers and Farmers, by Ngo Van Can, 15 pp.
VIETNAMISH, np, Vach Lap, No 7, 1964, pp 56-64.
JPRS 25918

Experiences in Socialist Education Activities for Workers, by Dang Huu Huan, 14 pp.
VIETNAMISH, np, Quan Do, No 7, 1964, pp 65-71.
JPRS 26291

Struggle to Uphold Ideals in the Task of Reason and Literary Criticism, by Nguyen Huy, 14 pp.
VIETNAMISH, np, Vach Lap, No 7, 1964, pp 72-78.
JPRS 25918

The Question of Utilization of Folklore, by Nguyen Dong Chi, 14 pp.
JPRS 25810

Keeping Muong Villages Peaceful and Happy, by Tran Ngoc, 5 pp.
VIETNAMISH, np, Nhat Dan, No 2252, 25 May 1964, p 2.
JPRS 25490

Dong Anh Huyen Successfully Meets Food Obligation, by Huu Hoc, 7 pp.
VIETNAMISH, np, Nhat Dan, 4 Jun 1964, p 3.
JPRS 25929

Block 30 of Dong Da Hamlet is Building a Secure, Orderly Life, 7 pp.
VIETNAMISH, np, Nhat Dan, 7 Jun 1964, p 2.
JPRS 25487

Hach Poem Work as Two Competition in Salt Production, by Ngo Minh Luon, 8 pp.
VIETNAMISH, np, Nhat Dan, 7 Jun 1964, p 3.
JPRS 25487

Resolutely Activate the Masses, 5 pp.
VIETNAMISH, np, Nhat Dan, 8 Jun 1964, p 3.
JPRS 25487

Da Nam Students Serve Agriculture, by Van Trung, 5 pp.
VIETNAMISH, np, Nhat Dan, 12 Jun 1964, p 3.
JPRS 25940

The Problem of Going Deeply into the Reality of Life, by Nguyen Khai, 8 pp.
VIETNAMISH, np, Nhat Dan, 4 Jul 1964, pp 5-6.
JPRS 25779

Build the Revolutionary Forces of the People, by Nguyen Lanh, 7 pp.
VIETNAMISH, np, Nhat Dan, 8 Jul 1964, p 2.
JPRS 25779

The Liberation War Wage Against Unequal System Imperialism and Its Agent by the People in South Vietnam Will be Won, by Vo Nguyen Giap, 48 pp.
VIETNAMISH, np, Nhat Dan, 19 Jul 1964, pp 1-25.
JPRS 25968

The Campaign to Build Poor Goods Cells in Hai Phong, by Hoai Viet, 8 pp.
VIETNAMISH, np, Nhat Dan, 2 Aug 1964, p 2.
JPRS 26288

VIETNAMISH, np, Nhat Dan, No 3781, 6 Aug 1964, p 2.
JPRS 26288

A Valuable Book About the Battle of Dien Bien Phu, by Hoang Minh Thao, 11 pp.
VIETNAMISH, np, Quan Do, Nhat Dan, No 1375, 2 Jul 1964, p 2.
JPRS 25800
Latin America

Economics

An Interview With Che Guevara, 8 pp.
JPRS 28899

JPRS 26138

Nematode Causing Paralysis in Cattle, 5 pp.
SPANISH, per. Boletin, 12 June 1964, pp. 6-11.
JPRS 25559

A New Variety of Corn by Matio G. del Cueto, 5 pp.
JPRS 25558

The Investment Process in Cuba, by Alfonso Laramee, 6 pp.
JPRS 25547

Reflections on Trade Policies, by Pedro Alegria, 7 pp.
SPANISH, per. Comercio Exterior, Oct-Dec 1964, pp. 30-44.
JPRS 25541

Cuban Statistics on Foreign Trade, 6 pp.
JPRS 25541

The Organization of Agricultural Working Brigades, by Israel Talleva, 9 pp.
JPRS 25517

Panamanian National Aviation Regulations, 50 pp.
JPRS 25519

Agenda for the First National Sugar Forum, 18 pp.
SPANISH, per. Hoy, 17 June 1964, pp. 7, 8.
JPRS 25500

Speech by Ilies Roca at the Agriculture Meeting, 5 pp.
SPANISH, per. Hoy, 18 June 1964, p. 4.
JPRS 25500

Agriculture Meeting in Pinar Del Rio, by Ricardo Saenz, 6 pp.
SPANISH, per. Hoy, 18 June 1964, p. 4.
JPRS 25500

Need for a Vanguard of Chemical Engineers for Sugar Industry Discussed, 8 pp.
JPRS 25507

JPRS 25507

The Consolidated Enterprise of Silicate Industry, by Rolando Cuenca, 8 pp.
JPRS 25547

JPRS 25547
Latin America

Political

Tromleyite View of the Situation in Peru, 11 pp.
FRANCI, per, Sous le Drapeau du Socialisme,
No 6, 1964, pp 6-7.
JPRS 25501
Mexican independent Analysis of the Conflict,
by M. Seara, 20 pp.
SPANISH, per, Cuadernos Americanos, No 3,
May, Jun 1964, pp 7-32.
JPRS 25436
Peaceful Coexistence Doctrine Analyzed
by Mexican Scholar, by Modesto Seara Vazquez,
15 pp.
SPANISH, per, Cuadernos Americanos, No 4,
Jul, Aug 1964, pp 93-112.
JPRS 25970
Revolutionaries Defined, 7 pp.
SPANISH, np, ULP, 11 Jul 1964, p 2.
JPRS 26041
Translation of Senator Frei's Speech, 17 pp.
SPANISH, np, El Mercurio, 18 Jun 1964, Encl to
Dept of State
Orlando Rilllas Address to the Central Committee
of the Chilean Communist Party, 18 pp.
SPANISH, np, Principios, May, Jun 1964,
pp 138-144.
JPRS 25436
26 July Celebrations in Cuba, and Abroad, 5 pp.
JPRS 26183

Sociological

The Shortage of Schools and Teachers, 5 pp.
ITALIAN, per, Vita Nuova, No 7, 1964,
pp 47-50.
JPRS 25899
Reorganization of Health Insurance Plan
Hospital, by Gregorio Hernandez, 12 pp.
SPANISH, per, Colombia, 20 Jun 1964, pp 93-97.
JPRS 26135
The Rising Cuban Academy of Sciences, by
Antonio Nunez Jimenez, 9 pp.
SPANISH, per, Cuba Socialista, Vol IX,
No 32, Apr 1964, pp 27-37.
JPRS 25977
Agreements to be Returned, 5 pp.
JPRS 26183

World Wide

Economic (Contd)

Certain Questions In the Economy of the
RUSSIAN, per, Voprosy Ekonomii, No 5, 1964,
pp 84-92.
JPRS 25748
A Call for an Exchange of Ideas,
by Gian Piero Bregag, 9 pp.
ITALIAN, per, II Fisi Rosso, No 8,
Jan-Apr 1964, pp 69-76.
JPRS 25436

Political

The Communists in the World Reject Dissidence,
18 pp.
RUSSIAN, per, Kommunist, No 8, May 1964,
JPRS 25436
The Dissidence Will Not Force World Communism
From the Leninist Path, 10 pp.
RUSSIAN, per, Kommunist, No 9, Jun 1964,
pp 70-86.
JPRS 25778
The Nonaligned States and the Struggle for
Peace, by N. Plakshkov, 9 pp.
RUSSIAN, per, Kommunist, No 9, Jun 1964,
pp 97-103.
JPRS 25778
Peaceful Coexistence a Form of Class Struggle,
by Sh. Akhmedov, 6 pp.
RUSSIAN, np, Kommunist Tadjikistana, 5 Jun 1964,
pp 2, 3.
JPRS 25301
Comments on the Various Speeches, 9 pp.
RUSSIAN, np, Voprosy, Jun 1964, pp 2, 4, 5.
JPRS 25484
On Khrushchev's Phone Communism and its
CHINESE, per, Jiefang Jie, No 13, 1964.
JPRS 26308
Fidel Sassano on European Trade Union Relations,
by Fidel Sassano, 12 pp.
ITALIAN, np, Attualita, 20 Jul 1964, 1 Aug, 7 Aug 1964,
pp 3.
JPRS 26053

Military

The Origin of Military Cybernetics in Foreign
Countries, by V. Vaneyuk, 15 pp.
RUSSIAN, per, Voprosno-Khudozhestvenny Zavod,
JPRS 26057
World Wide Sociological

Against Dogmatism and Vulgarization in Literature and the Arts, 22 pp.
RUSSIAN, per, Kommunist, No 9, Jun 1964,
JPRS 25778
The United Arab Republic in a New Stage,
by I. Belyaeva, V. Cherepkov, 12 pp.
RUSSIAN, per, Kommunist, No 9, pp 87-96,
JPRS 25778
RUSSIAN, per, Kommunist, No 9, Jun 1964,
pp 104-109.
JPRS 25778
Spiritual Poverty, by B. Leonтьев, 11 pp.
RUSSIAN, per, Kommunist, No 9, Jun 1964,
pp 110-118.
JPRS 25778

SCIENTIFIC

Aerospace

RUSSIAN, pamphlet, Chelovek v Kosmos, Moscow, 1963, pp 1-161.
JPRS 23825
Proceedings of the Central Aerological Observatory,
RUSSIAN, Issue, Chelovek v Kosmos, Moscow, 1962. 924432-V NASA TT-141
Connection Between Aerodynamic Heating and Surface Friction, by L. V. Kovalov,
RUSSIAN, per, Iz Akad Nauk SSSR, Otdel Tekh Nauk,
JPRS 23825
Mistake-Launching Minor Thrust, by D. Prokhorov,
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825
The Vibrations of Missiles, by R. Valid, 14 pp.
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825
The Vibrations of Missiles, by R. Valid, 14 pp.
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825
The Vibrations of Missiles, by R. Valid, 14 pp.
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825
The Vibrations of Missiles, by R. Valid, 14 pp.
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825
The Vibrations of Missiles, by R. Valid, 14 pp.
RUSSIAN, per, Kompleksnaya Zaschita, No 1, 1964,
pp 14-15.
JPRS 23825

Agriculture

Fertilizers for Potatoes, by A. I. Tamman, 14 pp.
JPRS 23846
Nutrient mixtures for Different Hydroponics
RUSSIAN, per, Agrokhimlya, No 2, 1964, pp 42-52.
JPRS 23846

Scientific

Agriculture (Contd)

Effect of Complex Fertilizers on Sugar Beets,
by I. G. Rozhdeevskii, 10 pp.
RUSSIAN, per, Agrokhimlya, No 2, 1964,
pp 33-62.
JPRS 23846
Need for Agrochemistry in the USSR,
by A. Polinikov, 6 pp.
RUSSIAN, pp, Ekonom, No 12, 23 Mar 1963,
p 34.
JPRS 23856
Cost Price of Produce and the Profitableness
of Production, 10 pp.
RUSSIAN, pp, Ekonom, No 105 (143), 1 May 1964,
pp 1-7.
JPRS 26039
Khazraeoel in Kolhozes and Sovkhozes, 24 pp.
RUSSIAN, pp, Ekonom, No 116 (143),
1 May 1964, pp 15-18.
JPRS 26039

The Accounting System of the Kolhozes and
Sovkhozes, 4 pp.
RUSSIAN, pp, Ekonom, No 20 (143),
16 May 1964, pp 11-12.
JPRS 26039
Stocktaking and Accounting, 11 pp.
RUSSIAN, pp, Ekonom, No 20 (143),
16 May 1964, pp 11-12.
JPRS 26039
Sources of Formation of Fixed and Circulating
Sovkhoz Assets and Their Use,
by V, Semenov, 18 pp.
RUSSIAN, per, Ekonom, No 20 (143),
16 May 1964, pp 30-41.
JPRS 26039

Comparative Evaluation of Compound and Simple
Fertilizers in Light Sandy Loamy Soil,
by A. N. Khomskii, 6 pp.
RUSSIAN, per, Iz Voprosov Sel'skhoz
Akademi, No 3 (40), 1962, pp 78-82.
JPRS 23809
Complex Liquid and Solid Fertilizers, Testing and
Prospects for Utilizing Them in the USSR,
by A. V. Peterburgskii, 27 pp.
RUSSIAN, per, Iz Voprosov Sel'skhoz
Akademi, No 3 (40), 1962, pp 103-121.
JPRS 23809

Mineral Fertilizers Basic Ways of Rational Use
of Fertilizers in Agriculture,
by G. A. Chechelnitskii, 9 pp.
RUSSIAN, per, Khim v Sel'skhoz Khim, No 1,
1964, pp 5-6.
JPRS 24031

Mineral Fertilizers Decisive Condition of
Production Growth of Agricultural Products,
by I. I. Sinyagin, 3 pp.
RUSSIAN, per, Khim v Sel'skhoz Khim, No 1,
1963, pp 4-5.
JPRS 24031

Chemical Analysis of Soil Bases of Fertilizer
Application, by A. V. Sokolov, 8 pp.
RUSSIAN, per, Khim v Sel'skhoz Khim, No 1,
JPRS 24031

Role of Nitric Feeding in Forming of Harvest,
by V. V. Tsin'kii, 18 pp.
RUSSIAN, per, Khim v Sel'skhoz Khim, No 1,
1963, pp 11-17.
JPRS 24031

On the Value of Magnesium and Magnesium
Containing Fertilizers, by M. M. Malaya, 12 pp.
RUSSIAN, per, Khim v Sel'skhoz Khim, No 1,
JPRS 24031

-33-
Scientific Agriculture (Contd)


Recovery of Pyridine Nucleotide on the Loss of


JPRS 26260

Study of Oxygen Transportation From Stalk and
Leaves to Root System in Young Higher Plants
Quantity Transported, by R. J. Chac, 1964
pp. 539-541.

JPRS 26270

Experiments With Foreign Variation of Grass,
by Janos Szabacs, 5 pp.


JPRS 26272

Rating Regulations for Improved Plant and Animal
Species, as Well as Production and Breeding
Technology, 14 pp.

HUNGARIAN, pr. Mozgalomtvigitok,
Vol VI, No.15, 1964, pp. 263-269.

JPRS 26275

Propagation of Seed Potatoes, by Lajos Bara, 5 pp.

HUNGARIAN, pr. Tormolojitsakok, 1964,
pp. 37-38.

JPRS 26275

A Horticultural Development Program in Neede
by Waldemar Michna, 6 pp.

POLISH, pp. Zycie Gospodarcze, No 3,
26 Jul 1964, p. 6.

JPRS 26276

The Regional Aspects of Agriculture in
Hondos-Hercegovina and Slovenia,
by Zac Plcin, 29 pp.

SERBIANOVIC, pr. Ekonomika Poljoprivrede,

JPRS 26277

Agriculture in Rumoa, by Hran Hlibovanovic
14 pp.

SERBIANOVIC, pr. Ekonomika Poljoprivrede,
Vol XI, No.6, 1964, pp. 75-78.

JPRS 26277

The Tasks Ahead in Yugoslav Agriculture,
by Jozep Ingole, 17 pp.

SERBIANOVIC, pr. Glasnik, No.7, 1964,
pp. 3-11.

JPRS 26278

Space Biology and Medicine, by V. I. Yazovskiy
12 pp.

RUSSIAN, bk. Biologiya i kosnospromyl
Kosmoschayeviy Biolgy i Medsinv, Moscow, 1964,
p. 5-50.

JPRS 26281

Translations From Great Medical Encyclopaedia, 67 pp.

RUSSIAN, bk. Bol'zhevyi Meditsinskii Entsiklopediya,
Vol. XXVIII. Moscow, 1963, pp. 103-116;
pp. 118-119.

JPRS 26281

Hemoglobin, Comparative Physiology and
Biochemistry, by P. A. Krasbors, 8 pp.

RUSSIAN, bk. Contrasting Characteristics
of Comparative Physiological Biochemical Investigations,
Moscow, 1964, pp. 5-18, 19-28.

JPRS 26281

Decontamination of Means of Individual Protection
and Protective Clothing, by M. M. Grinovskiy,
Z. Ye. Paulinova, et al. (04-10779)

RUSSIAN, bk. Dezinakativnyi individial'nyi
Zaschita i Lekarstvenna Lekarnya, Moscow, 1964,
p. 3-120.

JPRS 26281

Use of Hormones in Medicine, by N. A. Yudin
58 pp.

RUSSIAN, bk. Gormony i Zdorovye, Moscow,
1964, pp. 1-40.

JPRS 26289

Chemical Prophylaxis of Radioactive Injuries,
by A. S. Minxshtih, P. Yu. Rakhnisky, (GF-3360)

RUSSIAN, bk. Khimicheskaya Protectiya

JPRS 26289


RUSSIAN, bk. Ksikroolobiya, Nekotorye

JPRS 26290

A Commonwealth Plan -- On Health, by V. O. Denham
(NY-0352)

RUSSIAN, bk. Komunovershle Lekotv -- na Zdorov
Moscow, 1964, 100 pp.

JPRS 26290

Safety in Laboratory Use of Radioactive Substances,
by I. A. Reformanski, 37 pp.

RUSSIAN, bk. Labortorhii diya Rabot s
Radioaktivnymi Veshchestvami, Moscow, 1963.

JPRS 26290

Radioelectronics in Space Medicine,
51 pp.

RUSSIAN, ppampl., Massyovaya Radiofizika,

JPRS 26294

Comparison of Different Methods of Virological
Investigation of Material for Presence of Tick
Rickettsial Virus, by V. S. Erofeyev.

RUSSIAN, bk. Materialiya of the Inter-Institute
Science Conference on Diagnosis of Tick Rickettsial
Lepromatous Listeriosis and Toxoplasmolosis,
1963, pp. 6-7.

R-II 7-16-64

Section II. Leptospiras. Use of Precipitation in
Get Test for Diagnosis of Leptospiras, by
V. N. Novikov.

RUSSIAN, bk. Materialiya of the Inter-Institute
Science Conference on Diagnosis of Tick Rickettsial
Lepromatous Listeriosis and Toxoplasmolosis,

R-II 7-16-64
Precipitation Test in Gel in the Diagnosis of Listeriosis, by A. A. Tripolitova.
NIH 7-15-64

Section III. Listeriosis. Diagnosis of Listeriosis in the Pregnant and Newborn, by A. A. Tripolitova.
RUSSIAN, bk, Material of the Inter-Institute Science Conference on Diagnosis of Ticks Entomopathogens, Lepidoptera, Leproptera and Toxoplasticias, 1963, pp 50-52.
NIH 7-14-64

The Effects of Microorganisms on the Human Body, by V. M. Zemakov, 40 pp.
RUSSIAN, bk, Oxazitro Nidermiykh Vragov, Moscow, 1946.
JPRS 20444

Studies on Insecticide, Ticks and Tularaemia, by K. N. Pavlovsky.
NIH 7-11-64

RUSSIAN, bk, Peredovoy Nauchno-Tehnicheskiy Lezopyodnovennyy Opit, Moscow, No 6, 1962, pp 1-12.
JPRS 25478

JPRS 25478

JPRS 25478

Production, Standardization, and Control of Live Vaccine From Strain El. Kieckes Prowazekki, by B. M. Golovchin.
NIH 7-3-64

Live Rats Intraneous Typhus Vaccine From Strain El. Kieckes Prowazekki, by B. M. Golovchin.
RUSSIAN, bk, Problemy Izolacii Terapii i Immunologii, Moscow, 1963, pp 191-211.
NIH 7-25-64

Immunization of People With Live Vaccine From Strain El. Kieckes Prowazekki, by B. M. Golovchin.
RUSSIAN, bk, Problemy Izolacii Terapii i Immunologii, Moscow, 1963, pp 211-220.
NIH 7-24-64

RUSSIAN, bk, Rezultaty Formirovaniiya y Individual'nom Razvitii, Moscow, Chapter VII, 1964, pp 110-116.
JPRS 28580

RUSSIAN, bk, Rezultaty Formirovaniiya y Individual'nom Razvitii, Moscow, Chapter VIII, 1964, pp 116-120.
JPRS 28580

Regulation of Shape Formation at Various Levels of Integration, by J. I. Smal'gazov, 7 pp.
RUSSIAN, bk, Rezultaty Formirovaniiya y Individual'nom Razvitii, Moscow, Chapter IX, 1964, pp 121-126.
JPRS 28580

RUSSIAN, bk, Rezultaty Formirovaniiya y Individual'nom Razvitii, Moscow, Chapter X, 1964, pp 127-132.
JPRS 28580

Compilation of the Most Important Official Data on the Problem of Labor Hygiene and Industrial Sanitation, by L. V. Yanina.
RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1962, 120 pp.

AEC-74-6467

JPRS 26290

RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26247

RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26278

An Approach to the Problem of Heterotransplantation of Human Tumors, by S. A. Pappaz, I. G. Demirchyan, 7 pp.
RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26278

The Influence of Combined Irradiation on Tissue Respiration, by S. G. Shukyryan, 7 pp.
RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26278

Medical Control and Therapeutic Physical Culture, by S. M. Ivanov, 112 pp.
RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26278

RUSSIAN, bk, Materialy Zashchitnogo Uspokoiniia Rabochikh, Moscow, 1964, pp 226-278, 314-316.
JPRS 26278
The Influence of Antibiotics on the Function of the Adrenal Cortex of Guinea Pigs
by M. A. Osereckozovsky, 7 pp.
RUSSIAN, per, Antibiotiki, Vol IX, No 6, 1964, pp 528-532.
JPRS 26006
RUSSIAN, per, Antibiotiki, Vol IX, No 6, 1964, pp 532-537.
JPRS 26005
RUSSIAN, per, Arqiv Anatomi, Giziol i Embriol, No 5, 1964, pp 3-11.
JPRS 26042
RUSSIAN, per, Arqiv Anatomi, Giziol i Embriol, No 5, 1964, pp 30-37.
JPRS 26050
Zinc in the Human Pancreas, by I. A. Shchukin, 10 pp.
RUSSIAN, per, Arqiv Anatomi, Giziol i Embriol, No 5, 1964, pp 83-87.
JPRS 26051
JPRS 25652
Tautomal Transformations in Nucleic Acid Components and Their Role in Metabolism, by I. I. Sidorov, V. I. Poltor, 23 pp.
JPRS 25652
Investigation of Mechanical Destruction of Genetic and Electromagnetic Resilience in the Cells of Mammals
JPRS 25652
RUSSIAN, per, Biologika, Vol IX, No 2, 1964, pp 204-209.
JPRS 25652
RUSSIAN, per, Biologika, Vol IX, No 2, 1964, pp 210-216.
JPRS 25652
JPRS 25652
JPRS 25652
-37-
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLIV, No 4, 1964, pp 922-935.  
NASA TT F-197

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLIV, No 3, 1964, pp 606-609.  
JPRS 25824

JPRS 25824

JPRS 25824

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLIV, No 6, 1964, pp 1472-1475.  
NASA TT F-204

Large Scale Chemistry and Problems of Hygiene, by G. Kh. Shakhbazyan, 8 pp.  
RUSSIAN, per, Gig i sanit, Vol XXIX, No 4, 1964, pp 3-8.  
JPRS 26305

The Influence of Intense Noise on Certain Functions of the Organism, by A. I. Strakhov, 12 pp.  
RUSSIAN, per, Gig i sanit, Vol XXIX, No 4, 1964, pp 29-34.  
JPRS 26305

RUSSIAN, per, Gig i sanit, Vol XXIX, No 4, 1964, pp 37-42.  
JPRS 26305

RUSSIAN, per, Gig i sanit, Vol XXIX, No 4, 1964, pp 35-64.  
JPRS 26305

RUSSIAN, per, Gig i sanit, Vol XXIX, No 5, 1964, pp 3-6.  
JPRS 26305

JPRS 26302

The Experience of Preventive Medical Supervision During the Construction of a New City, by Yu. I. Cherepyakova, 5 pp.  
RUSSIAN, per, Gig i sanit, Vol XXIX, No 5, 1964, pp 70-73.  
JPRS 20882

RUSSIAN, per, Gig i sanit, Vol XXIX, No 5, 1964, pp 97-100.  
JPRS 20882

Successful Fulfillment of the CPSI Program in the Field of Public Health, by N. A. Vinogradov, 8 pp.  
RUSSIAN, per, Gig i sanit, Vol XXIX, No 6, 1964, pp 3-6.  
JPRS 20413

RUSSIAN, per, Gig. Trud i Professional' Zabol, Vol VII, No 6, 1964, pp 712.  
JPRS 20808

JPRS 20809

RUSSIAN, per, Gig. Trud i Professional' Zabol, Vol VII, No 6, 1964, pp 763-768.  
JPRS 20809

Certain Results of and Long-Term Prospects for the Development of Radiobiological Research in Space, by N. M. Shtayev, V. V. Parin, 13 pp.  
RUSSIAN, per, Izv Ak Nauk SSSR Serye Biol, No 3, May/June 1964, pp 341-351.  
JPRS 25844

JPRS 25844

Sensitivity of Vestibular Analyzers and Sensory Reactions in Man During Brief Weightlessness, 10 pp.  
JPRS 25844

JPRS 25844

In Surgery Justified for the Treatment of Spinal Fractures, by Yu. I. Tutyshe, 16 pp.  
JPRS 25844

Errors and Complications in Osteosynthesis of Long Bones With Metal Devices, by G. S. Yamashev, 5 pp.  
JPRS 25846
Scientific Biological & Medical Sciences (Contd)

RUSSIAN, per, Klinicheskiy, Vol XL, No 5, 1964, pp 72-83
JPRS 25586

Narcotization of Mosquitoes With Carbon Dioxide, by B. I. Klimchenko.
NII 7-16-64

Distribution of Echinococcus and Alveococcus in the Soviet Union, by G. I. Dubinin.
JPRS 25505

RUSSIAN, per, Medif Prom, Vol XVIII, No 7, 1964, pp 46-49
JPRS 25533

UMO-2 Type Ultrasonic Installation for Cleaning Medical Instruments, by G. D. Lisyanskii.
RUSSIAN, per, Medif Prom, Vol XVIII, No 2, 1964, pp 49-53
JPRS 25533

Electric Parameters of Biological Tissue in the Microwave Range, by A. R. Livshon, 9 pp.
RUSSIAN, per, Medif Prom, Vol XVIII, No 6, 1964, pp 14-26
JPRS 25519

RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 18-20
JPRS 25216

RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 24-26
JPRS 25216

Reaction of Spleen, Lymph Nodes and Loose Connecting Tissue to Antigenic Stimuli in Irradiated Animals, by V. V. Shilkunyrov, N. N. Klimpikaya, 11 pp.
RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 26-34
JPRS 25216

RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 48-50
JPRS 25216

RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 50-58
JPRS 25216

Radiosensitivity of Mice After Splenectomy and Application of Homogenate of Spleen Tissue in Chronic Radiation Sickness, by K. I. Kovalyovskii, 7 pp.
RUSSIAN, per, Medif Radion, Vol IX, No 5, 1964, pp 58-62
JPRS 25216

RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 2-3, 27
JPRS 25506

Man and the City, by V. Faloyev, 8 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 10-11, 16
JPRS 25506

Morning Health Exercises, by A. Frankvitskiy, 10 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 14-17, 34-50
JPRS 25506

Physical Activity & Health Prerequisites, by V. Perin, 8 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 22-24
JPRS 25506

Outlook for a Young Science, by I. Roishchin, 5 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 31-33
JPRS 25506

RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 33-36, 44-46
JPRS 25506

The Geography of Longevity, by N. Schukh, 5 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 31, 32
JPRS 25506

RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 33-36, 44-46
JPRS 25506

The Cosmic Horizon of Biochemistry, by N. Timofeyev, 6 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 54-57
JPRS 25506

Gerontology and Physical Culture, by I. Morozov, 7 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 58-63
JPRS 25506

Molecular Aging of the Body, by Zh. Medvedev, 8 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 64-66
JPRS 25506

Chromosome Diseases, by Yu. Shikhtin, 8 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 68-72
JPRS 25506

RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 76-78
JPRS 25506

The Secrets of Their Longevity, by I. Khadkham, 11 pp.
RUSSIAN, per, Nauka i Zhizn', Vol XXX, No 2, 1964, pp 80-84, 88
JPRS 25506
Hypnosis Found Useful in Pedagogy, by V. Zubart, 7 pp.
RUSSIAN, per, Nezka i Zhizn', Vol XXX, No 4, 1964, pp 50-62.
JPRS 25065

Occult Sciences and Yoga Ridiculed, by A. A. Bykhenko, 11 pp.
RUSSIAN, per, Nezka i Zhizn', Vol XXX, No 4, 1964, pp 64-69.
JPRS 25065

Child Training Toward Civic Duties Discussed, by V. M. Bukhotrav, 9 pp.
RUSSIAN, per, Nezka i Zhizn', Vol XXX, No 4, 1964, pp 78-82.
JPRS 25065

RUSSIAN, per, Nezka i Zhizn', Vol XXX, No 4, 1964, pp 93-96.
JPRS 25065

JPRS 25065

JPRS 25065

JPRS 25065

RUSSIAN, per, Okoziologiya, Vol IV, No 3, 1964, pp 418-422.
JPRS 25065

RUSSIAN, per, Okoziologiya, Vol IV, No 3, 1964, pp 423-430.
JPRS 25065

RUSSIAN, per, Okoziologiya, Vol IV, No 3, 1964, pp 431-436.
JPRS 25065

RUSSIAN, per, Okoziologiya, Vol IV, No 3, 1964, pp 451-527.
JPRS 25065

RUSSIAN, per, Okoziologiya, Vol IV, No 3, 1964, pp 528-534.
JPRS 25065

Transplantation of Bone Tissue, by L. L. Krapko, 10 pp.
RUSSIAN, per, Ortoped Traumatol i Protrekt, No 4, 1964, pp 1-9.
JPRS 25719

Method of Replacing the Dermal Articular End of the Humerus, by P. P. Kovalenko, 7 pp.
JPRS 25719

The Fate of a Homogenous Cartilaginous Graft Deprived of Part of the Protein-Poly saccharide Complex of the Matrix, by A. Kres, J. Jiranek, 8 pp.
JPRS 25719

The Fate of a Joint Homograft Depending on the Periods of Low-Temperature Storage of It, by A. A. Manachety, M. M. Pavlova, 8 pp.
JPRS 25719

JPRS 25719

Vascularization of a Bone Autograft During Fixation of the Spinal Column in an Experiment, by N. A. Serebrava, 7 pp.
JPRS 25719

Experiment Homo transplantation of Femur Bone, by L. I. Kostodyan, 7 pp.
JPRS 25719

RUSSIAN, per, Ortoped Traumatol i Protrekt, Vol XXV, No 4, 1964, pp 32-34.
JPRS 25719

JPRS 25067

JPRS 25716

JPRS 25716
*Fisheries Research*
Board of Canada,
Ottawa

JPRS 25843

JPRS 25843

JPRS 25843

JPRS 25818

The Biology and Flshing of the Principal Fish of the South Atlantic, by S. O. Overko, 7 pp.
JPRS 25781

JPRS 25581

JPRS 25581

The Fishing Industry of the USA, by A. H. Kuz'mich, 9 pp.
RUSSIAN, per, *Byzov Kizh*, No 4, 1964, pp 82-86.
JPRS 25581

Conference of the Active Members of the Workers of the Fishing Industry in the Far East, 6 pp.
JPRS 25581

Chemical Composition and Comparative Evaluation of Whale Meat Used for Food, by V. A. Makarov, 6 pp.
JPRS 25843

Results and Problems in Promoting Fish Breeding in Ponds, by K. Babayan, 6 pp.
JPRS 260118

Scientific
Biology & Medical Sciences (Cont)

JPRS 25681

The Activity of the Methodological Room of the Central District Hospital, by N. A. Bondarenko, D. M. Gindulmer, 7 pp.
JPRS 25582

The Tasks of Methodological Departments of Scientific Research Institutes, by I. A. Ryvkin, 5 pp.
JPRS 25582

The Main Principles of Soviet Public Health During Large-Scale Building of Communit, by D. P. Belyansky, 5 pp.
JPRS 25582

JPRS 25983

Ideological Training of Students the Most Important Division of Work of the Higher Medical Educational Institute, by V. I. Belsal'nikov, N. P. Danylyants, 7 pp.
JPRS 25983

Increase in the Life Expectancy of the Population of the USSR, by A. M. Vostrilova, 8 pp.
JPRS 25983

Effect of Varying Illumination on the Aesthetical Quality of Fish Organisms for Certain Fish, by L. I. Givra.
RUSSIAN, per, *Izvestiia Instituta Mekhanologii Zhivotnykh*
Fisheries Research Board of Canada, Ottawa

RUSSIAN, per, *Izvestiia Instituta Mekhanologii Zhivotnykh*
*Fisheries Research*
Board of Canada,
Ottawa

Morphological Changes of the Fish Tissue Around the Larvae of Some Pacific Worms, by L. G. Mikheilov, E. V. Plikul'ska, 6 pp.
RUSSIAN, per, *Izvestiia Instituta Mekhanologii Zhivotnykh*
Vol XXIII, No 74, 1964, pp 27-78.
*Fisheries Research*
Board of Canada,
Ottawa

RUSSIAN, per, *Izvestiia Instituta Mekhanologii Zhivotnykh*
*Fisheries Research*
Board of Canada,
Ottawa

-41-

Fisheries Research Board of Canada,
Tech Station

JPRS 21963

RUSSIAN, per, Trudof, Vol VI, No 2, 1964, pp 222-223.
JPRS 21964

INSA T T-224

JPRS 21962

JPRS 21972

Use of Urea for Treatment of Impairment of the Renal Function of the Kidney in Rabbits, by P. M. Fedorov, 11 pp.
JPRS 21978

JPRS 21993

JPRS 21993

JPRS 21993

*Fisheries Research Inst.,
Univ of Washington, Seattle

Peculiarities in Abundance Dynamics of Pacific Ocean Littoral Salmon Oncorhynhucus clarkia (Gmelin), by Ye. Ye. Lapina, 12 pp.
JPRS 21993

Results of Microwave Treatment of Some Diseases, by L. Nikolaev-Troeva, 5 pp.
JPRS 21994

JPRS 21995

Electrophoretic Separation of Soluble Liver Proteins of Animals With Transplanted Tumors, by T. A. Goryatskaya, 10 pp.
JPRS 21995

JPRS 21996

JPRS 21997

JPRS 21998

Biological Effects of Gravitational Acceleration, by V. A. Derovanskii, V. V. Mylyashov, 10 pp.
JPRS 21999

JPRS 22000

RUSSIAN, per, Voprosy Psikhologii, No 3, 1963, pp 127-142.
JPRS 22001

JPRS 22002


ARC-AL-Tr-44


Fisheries Research Board of Canada, Tech Stations


NII 7-10-64


ARC Poisoning Caused by Pest Control Agents, by W. D. Fidmann, 12 pp.

GERMAN, per, Der Dieitherapeutik, No 9, 1965, pp 360-392.

Navy Tr 3668/NJ 1003


Fisheries Research Board of Canada, Tech Stations


*Fisheries Research Board of Canada, Ottawa


Fisheries Research Board of Canada, Technical Stations
Structure and Differential Diagnosis of Native Diphyllobothrium-Porcercosoid, by Friedrich Kühlow.


Fisherian Research Board of Canada, Ottawa

A Contribution to the Development and Systematics of Native Diphyllobothrium Species, by Friedrich Kühlow.


Fisherian Research Board of Canada, Ottawa

Radioiodological Aerosol Problems, I. Radiodine, by W. Richter.


ARC


IRISH, pers. Irish Veterinary, ARC-INC-Tr-7413

Biochemical Research in Hungary as Reflected by Two Congresses, by Bela Tando, 10 pp.


JPR5 20199


ITALIAN, pers. Eighth Meeting on Microbiology, Perugia, 4-7 Oct 1963.

ARRF-ARLBA-Tr-1300

Spon Pressure Values for the Lesser Circulation in the Dog and Sleep (ramp) as Compared With the Arterial Pressure Values for the Greater Circulation, by W. Pioleti.


NII 7-5-64

Modifications of the Functional State of the Thalamus and of the Cortex During the Deepest Stage of Physiological Sleep, by H. Pelayo, et al.


NII 7-7-64

Sperm Oil, by Haskell Fritsch.


Fisherian Research Board of Canada, Tech Station

Cochleopirapular Response During Sleep and Its Clinical Application for Objective Audiometry, by H. Sasaki.


NII 7-5-64

Studies on Sleep. II. Paradoxical Phase (P.P.) and Reverse Paradoxical Phase (R.P.P.) in Human Subjects, by K. Asahina.


NII 7-5-64

Chemical Composition and Biological Considerations of the Red Mullet (Molus Laborunus L.) of Carmen, by J. Horsee, M. Munro.


Fisherian Research Board of Canada, Ottawa

Variation in the Chemical Composition of the Land of Harinke (South Atlantic Coast of Spain) in Relation to Dlfferent Maturity Phases, by Rafael三十.


Fisherian Research Board of Canada, Ottawa

Physiological Mechanisms in Sleep, by J. A. Pullman.


NII 7-163

The Mechanisms Effect and its Applications in Chemistry, by V. I. Goldanskaya.

RUSSIAN, pers. Consultative Bureau

Ozone in the Service of Large-Scale Chemistry, by Yu. M. Bokleynsky, 7 pp.

RUSSIAN, pers. Apr 2634.

Navy Tr. 3874/II/3954


JPR5 200105


JPR5 200107


JPR5 20194


JPR5 200100
The Radiation Remanence of Polyvinylchloride and Polymeric Materials Based on It,
by M. N. Silotog, 10 pp.
RUSSIAN, in: Zadachi i Posvyaieni v Atomnoy Tekhnike, Moscow, 1963, pp. 33-44.  
JPRS 26204

The Chemistry of Photopolymerization,
by N. M. Shalaya, R. M. Betera, 23 pp.
JPRS 26219

Principles of Modeling Biocatalysts,
by I. A. Nihlasheva, 21 pp.
JPRS 26283

First All-Union Biochemical Congress,
JPRS 26264

Isotopic Exchange Between Carbon Dioxide and Its Rhambitomic Solutions,
by I. A. Semypokh, V. A. Panchenkov et al., 5 pp.
JPRS 26167

Interaction in the System (Hf+Rb), by R. N. Kupov, R. K. Kilo.
*AIK:

Hex-Preseing of Pure-Oxide Ceramics,
by K. B. Poluboyatov, E. L. Shallow.
*AIK:

Chemical Reaction of Liquid Surfaces,
CHINES, in: Hua-mu-luq Hwong-pan, No 6, 1964, pp. 41-49.  
JPRS 26289

The Mixing Effect of Dispersion Between Liquids on the Continuous Mixing Reactor,
JPRS 26128

Crystal Structure of CRN(HCl)3(SCN)3,
by H. C. Jis-lin, Q. G. Yuan-chang, 5 pp.
CHINES, in: Hua-mu-luq Hwong-pan, No 6, 1964, pp. 528-536.  
JPRS 26193

Reduction of Uranium From Low-Grade Uranium Ore by the Volventic Analysis System With Aluminum Felt, by L. Huan-hua, 5 pp.
JPRS 28310

Radiochemical Analysis by Means of Adsorption Plate. 1. Methodology and Determination of Radios, by H. Vrca.
*Czech

*FR-3-244-906

*FR-3-1252

*AIER-3-1252

*AIER-3-6-1717

Freezing Point Depression Due to Anomalous Crystal Habit As Well As by Limitation of the Crystal Water, by W. L. Kula, 24 pp.
*AIER-3-6-1717

*Pert Office

Synthetic Tannin in the Emetine Series, by A. Brown, O, Schneider, 19 pp.
*Pert Office

*AIER-3-6-1717

*AIER-3-6-1717

*AIER-3-6-1717

Activation of Basic Acid With Polyenyl Compounds and the Phenomenon in Quantitative Analysis of Activated Basic Acid, by W. G. Schoder, 26 pp.
*AIER-3-6-1717

Synthesis of Glucose 3,4,14C of High Specific Activity, by P. Von Fiedler, A. Trebel, 4 pp.
*AIER-3-6-1717

*AIER-Harwell


The Practical Utilization of Scientific Results in Chemistry, by Iolya Kardos, 6 pp.


JPRS 26153


JPRS 26153

Earth Sciences & Astronomy

Aurorae and Airglow, by V. I. Krasovskiy.

RUSSIAN, bk, NASA, OTS)


RUSSIAN, rps, No 18, 1897, pp 92-148.

JPRS TC-231

Results of Geophysical Works in Research of Plutonic Geology Connected With the Problem of Oil Contents in Certain Regions of Ukrainian SSR, by V. S. Zaitovskiy.

RUSSIAN, bk, Kiev, 1969.

JPRS TC-385

Astronomic Observations in Semirech'ye, by A. I. Petrunko.


JPRS TC-416, 224


RUSSIAN, rps, Gidrodinamicheskiy Doklady, Moscow, 1964, pp 5-18.

JPRS 26178

Forecasting Zonal Circulation on the Basis of Coupling Moments, by M. B. Gally, 11 pp.


JPRS 26178


JPRS 26178


RUSSIAN, rps, Gidrodinamicheskiy Doklady, Moscow, 1964, pp 92-100.

JPRS 26178

Section V. Ilianoid Goodby, by U. G. Zdanovich.


AGC TC-351

Map-Scheme of the Reverse Side of the Moon, by I. I. Brejno.

RUSSIAN, rpt, Karla-Schemo Okhrano Spyutno Lupa, Chapt 10, 1960.

AGC TC-203


NASA TT F-212


NASA TT F-212

Problems of Solar Activity, by H. M. Rubashev.

RUSSIAN, bk, Problemy Solnechnoi Aktivnosti.


NASA TT F-244


RUSSIAN, bk, Radioaktivnye Zagryazneniya.

Moscow, Moscow, 1964, pp 1-11, 92-109.

JPRS 26002

Radiation of the Moon, Physical Condition and Nature of Its Surface, by V. S. Troitskiy.


AGC TC-473

Currents of the Bering Sea, by A. K. Leonov.

RUSSIAN, bk, Rednial'naya Okhrana Morya, Part I, 1964, pp 101-123.

Navy l, 1964/1965, 187

New Data on the Stratigraphy of Lower and Middle Cambrian Deposits of the Obian. Region. Results of Bore-Stream (Obian), by Y. G. Kanatov.

RUSSIAN, rps, Voprosy Nauki, Leningrad, 1964, pp 3-16.


AGC TC-485


AGC TC-485

-47-
Solnological Researches.

RUSSIAN, IN, *Seyemicheskie Issledovanija*, No. 4, 1960.
ACIC
TC-343

Report on Scientific Works in Geology.

ACIC
TC-284-287

Transactions of the Central Aerological Observatory: Atmospheric Turbulence.

ACIC
RC-206-206

Light Range Finder SVV-1 and the Results of the Testing, by V. A. Veitchko.

RUSSIAN, per, *Byull Minister Vysoko Obrazovan SSSR*, No. 2, 1959, pp. 77-84.
ACIC
TC-298a

Geodetic Light Range Finders of the State Optical Institute Equipped With Interference and Diffraction Light Modulators, by Yu. V. Popov.

RUSSIAN, per, *Byull Minister Vysoko Obrazovan SSSR*, No. 2, 1959, pp. 53-56.
ACIC
TC-298b


ACIC
RC-20886

On the Geocentric Latitude of a Space Point, by A. A. Izotov.

ACIC
RC-20711

Double Rejection in Space, by V. V. Popovlev.

ACIC
RC-20504

The Geological Significance of the Gravitational Map of Karelia, Finland and Leningrad Region, by D. A. Andrejev.

ACIC
TC-464

Results of Exploration of Terrestrial Crust in Southern Part of Western Siberian Low-Land by the Method of Seismic Soundings, by Z. Kh. Tulakova.

ACIC
TC-458

Hilltopography on Geology of Siberia Submitted to GINPEI, Siberian Section Academy of Science.

ACIC
TC-4584c


RUSSIAN, per, *Geofizika i Geoteknika*, No. 8, 1961, pp. 82-84.
ACIC
TC-441a


RUSSIAN, per, *Gil'Stay*, No. 1, 1964, pp. 56-58.
ACIC
RC-202-202

Fundamentals of Mining Science, by G. I. Maslovsky.

ACIC
RC-202-202

Bulletin of the Main Geometrical Observatory.


ACIC
RC-206-206

The Vertical Structure of the Cloud Cover According to Weather Satellite Data, by L. S. Minina.

ACIC
RC-206-206


ACIC
RC-206-206

Computation of Changes in Pressure at the Earth's Surface From Using Aerological Data, by Yu. N. Azeby.

ACIC
RC-206-206


ACIC
RC-206-206

Work of the Institute on Investigation of General Circulation of the Atmosphere in the German Democratic Republic, by H. Harg.

ACIC
RC-206-206

Literature on Meteorology and Hydrology Published in 1963 Books and Brochures Meteorology, 13 pp.

ACIC
RC-206-206

Soviet Meteorological Conferences, Meetings and Seminars, 7 pp.

ACIC
RC-206-206

A New Approach to the Numerical Solution of the Weather Forecasting Problem, by G. I. Marchuk.

ACIC
RC-206-206


ACIC
RC-206-206
Increasing the Quality of Analysis of the Geopotential Field for Areas for Which There is Little Available Initial Data, by M. S. Palkina-Rabinovich, 14 pp. RUSSIAN, per, Meteorol i Gidrol., No 3, 1964. JPRS 25697


Actinometric Measurements on the Vessels of Soviet Antarctic Expeditions, by V. I. Shlyakhov, 7 pp. RUSSIAN, per, Meteorol i Gidrol., No 6, 1964. JPRS 25718

The Use of Electronic Computers for the Statistical Analysis of Actinometric Data, by O. D. Sirotenko, 9 pp. RUSSIAN, per, Meteorol i Gidrol., No 6, 1964. JPRS 25718

Accuracy of Wind Determination Using the Meteor Radiometeorological Station, by B. S. Derbentiev, B. P. Ivanov, 11 pp. RUSSIAN, per, Meteorol i Gidrol., No 6, 1964. JPRS 25718

Calibration of Radiometers for Temperature Down to ~100°C, by A. Ye. Shchekin, 8 pp. RUSSIAN, per, Meteorol i Gidrol., No 6, 1964. JPRS 25718


Short Period Forecasting of High-Water Hydrographs, by L. M. Marquartov, 63 pp. RUSSIAN, per, Meteorol i Gidrol., Moscow, No 7, 1964, pp. 3-46. JPRS 26139

Modern Mathematical Methods in Hydrology, by L. S. Kichment, 63 pp. RUSSIAN, per, Meteorol i Gidrol., Moscow, No 7, 1964, pp. 3-46. JPRS 26139

Literature on Meteorology and Hydrology for 1963, 63 pp. RUSSIAN, per, Meteorol i Gidrol., Moscow, No 7, 1964, pp. 3-55. JPRS 26139

Activities of the Main Administration of the Hydrometeoro logical Service, 63 pp. RUSSIAN, per, Meteorol i Gidrol., Moscow, No 7, 1964, pp. 3-55. JPRS 26139


Scientific Earth Sciences & Astronomy (Cont)


Magnetometry for Studying Rare Metal Carbonatite Masses, by B. H. Rusanov, 6 pp. RUSSIAN, per, Razvedka i Obrabotka Nade. No 7, 1964, pp. 30-35. JPRS 25991

The Method of Research of the Geological Structure of the Crystalline Mantle of the Earth, by R. M. Demushkin. RUSSIAN, per, Sovet Geology., No 1, 1964. JPRS 25191

The Effect of Wave Method, by Y. Ye. Detschikov, 37-46. JPRS 25196

Geological Sketch of the Central Zone of the Northern Island of Novaya Zemlya, Along the Rusanov Valley, by M. A. Lavrovskiy, B. P. Zemlyanskii. RUSSIAN, per, Trudy Gosudarstv. Ak N.S.S.R., No 1, 1964. pp. 51-70. JPRS 25195

Complications and Predictions of Rain and Ice Flow During the Preceding Period of Rivers, by A. A. Mednikovskiy, 38 pp. RUSSIAN, per, Trudy Gosudarstv. Ak N.S.S.R., No 103, 1964, pp. 3-40. JPRS 25998

On the Mechanism of Ice-Cover Shifts, by V. P. Bardinshchikov, 22 pp. RUSSIAN, per, Trudy Gosudarstv. Ak N.S.S.R., No 103, 1964, pp. 41-50. JPRS 25998

On Some Types of Mountain River Ice Regimes, by A. N. Chichkov, 18 pp. RUSSIAN, per, Trudy Gosudarstv. Ak N.S.S.R., No 103, 1964, pp. 51-60. JPRS 25998


Underwater Observation of Substratum of the Barents Sea, by M. V. Popov. RUSSIAN, per, Trudy Gosudarstv. Ak N.S.S.R., No 21, 1964, pp. 164-165. JPRS 25998

Scientific Earth Sciences & Astronomy (Cont)
Earth Sciences & Astronomy (Cont)


GERMAN, rtp., Konstruktion von Freilandanomalien in Niedrigen Gelände nach der Hypsographischen Methode.

ACIC

TC-554

Preliminary Design to the Notebook on Southeastern Europe, Northern Part, Romania.


ACIC

TC-514

The Precise Determination of the Antenna Four-Pendulum Apparatus of the German Geodetic Research Institute, by Kurt Marzahn.


TC-489


ACIC

TC-413

The High Complex Wind Sea Near the North Atlantic Weather Ship "K" on 4th December 1959, by Ill. Walden.


ACIC

TC-383


POLISH, rtp.

ACIC

TC-444

Report on Observations on Determination of the Figure of Earth According to Gravity Measurements, by M. P. Ruskii.

POLISH, rtp., Memoire et Observations, Sér. I, Détermination de la Figure de la Terre Faites les Observations de la Gravité.

ACIC

TC-577

Geodetic Map of Poland, by Ladurnez Bilak.

POLISH, rtp., Bulletin 64, Geodetic Series, No. 5, 1925.

ACIC

TC-250

Determination of the Coefficient of Turbulent Diffusion in the Sea With the Aid of Radioactive Indicators, by H. A. Nemer.


Navy TR-394/1101 217


ACIC

Theoretical Description of the National Atlas of Bulgaria, by Ananina Beshik, 8 pp.


ACIC


CHINESE, rtp., Chiensheng, No. 6, 1944, pp. 440-450.

ACIC

Conference on Hydrological Forecasts, 6 pp.

CHINESE, rtp., Chiensheng, No. 6, 1944, pp. 600-661.

ACIC

Relative Gravity Determination of the Points Triangles in the Triangulation in Southern Finland Conducted During Years of 1924-25, by U. Pehmeri.

FINNISH, rtp., Geodetic Institute, No. 1, 1927.

ACIC

Some Analytical Characteristics of the Surface and Base of Greenland's Inland Ice, by Jean-Paul Bourque.

FRENCH, rtp., Vol. XII, No. 1, 1950.

ACIC

When the Harp Trembles, by Horace Tzieff.

FRENCH, 19.

HARCOURT

Research on the Polarization of Light From Planes and From Some Terrestrial Substances, by H. Lyot.

FRENCH, 19.

NASA (1975)

Belgium and Belgian Congo, National Committee of Geodesy and Geophysics, Geodetic Works Accomplished From 1939 to 1953.


BEI 1957


Brazed Pressure Pipe Line Units With Reinforcement, by W. Kley, 6 pp. ITALIAN, per, No 50, 1964. *JPRS 3851


The Preparation of Steel Standards in the Laboratory, by E. Grzegorek. POLISH, per, Chemia, Vol VII, 1962, pp 53-54. *JPRS 3856


Scientific Engineering (Contd)


Brazed Pressure Pipe Line Units With Reinforcement, by W. Kley, 6 pp. ITALIAN, per, No 50, 1964. *JPRS 3851


The Preparation of Steel Standards in the Laboratory, by E. Grzegorek. POLISH, per, Chemia, Vol VII, 1962, pp 53-54. *JPRS 3856


The Initial Stage of Independent Analysis of the German Simple Extended Sentence, by A. B. Belokolosov, 14 pp.
**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

Elimination of Ambiguity in Independent Analysis, by N. N. Volkova, 3 pp.
**JPRI 26209**

**JPRI 26209**

Foreign Developments in Machine Translation and Information Processing, by I. A. Mel'ifik, 35 pp.
**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

Sufficient Conditions for Optimal Control in Banach Spaces, by Yu. V. Yepevtov, 41 pp.
**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

Economical Organization of Information Search and Retrieval With Bara Storage, by V. V. Martryuk, 10 pp.
**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**JPRI 26209**

**ITALIAN** ed. R. Parigi e de Accursi, Coefficienti dei Formuli, No 2, 1964, Feb 16th.
**ARCOTT** Tr-80

**JPRI 26209**

**JPRI 26209**
Scientific
Nuclear Science & Technology

Isotope Gamma-Installations, by A. V. Biletsky.
RUSSIAN, 16, Isotopen Gammakomplexe, Moscow, 1960, 156 pp.
*ARC-Tr-0649

Some Features of Decay of Octa Compound Nuclei
With High Angular Momentum, by G. Kampf.
RUSSIAN, 16, Isotopen Gammakomplexe, Moscow, 1960, 156 pp.
*ARC-Tr-0649

Muon Sections and Average Angular Momenta
of Compound Systems in Reactions With Heavy Ions,
by Y. V. Halikov.
RUSSIAN, 16, Joint Institute for Nuclear Research.
*ARC

Some Results of the Detection of Tracks of Relativistic Charged Particles,
by M. L. Ivanov, W. L. Kamasov, et al.
RUSSIAN, 16, Joint Institute for Nuclear Research.
*ARC

Experimental Investigation of Angular Distribution
in Transfer Reactions With Ne20 and Ar Ions,
by S. L. Lushnikov.
RUSSIAN, 16, Joint Institute for Nuclear Research.
1963, 9224550
ARC-UCRL-Tr-1080

A Polished Proton Target for Experiments
With High-Energy Particles, by S. M. Ilinskii.
L. L. Labusha, et al.
RUSSIAN, 16, Joint Institute for Nuclear Research.
1964.
*ARNL-Harwell

Quant-Chemical Model of Triple Plasmas,
by A. P. Gelfter, S. L. Kizelnikov.

Stabilization of Charged Particles Through Matter,
by N. V. Starobukov, A. M. Romanov.
RUSSIAN, 16, Proton-Density Zaporozhetsky Chemial
*ARC-Tr-6468

Radioactive Isotopes and Nuclear Reactions
in the National Economy of the USSR,
Transactions of the Symposium
RUSSIAN, 16, Yuzhnoy Zavod Zaporozhetsky Seminars
Physicists and Chemists (Zaporozhetsky Symposium), Leningrad,
1961, 1,000 pp.
*ARC-Tr-6468

Nuclear Reactions for Low and Medium Energies,
RUSSIAN, 16, Yuzhnoy Zavod Zaporozhetsky Seminars
Physicists and Chemists (Zaporozhetsky Symposium), Leningrad,
1961, 1,000 pp.
*ARC-Tr-6468

The Use of an Ion Exchange Reactor as the Adjacent Plate Carrier in Partition Chromatography,
the Separation of Zn, Cu, and Hg, by L. N. Moskvin,
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,
by V. I. Subbotin, A. A. Zinovtchik, et al.
*ARC

Critical Heat Flux in Circular Channels,


High-Temperature Irradiation Sources 1, 100°C, Capable With Electrical Heating. Temperature Regulation, by P. Milliez, C. F. 6 pp. FRENCH, per, Bulletin d'Informations Scientifiques et Techniques, No 75, 75, May, Jul 1965, pp 101-104. 9242371


Measurement of Radioactivity in the Air Resulting From the Operation of the Darmstadt 50 MeV Linear Accelerator, by D. Krause. GERMANN, per, Darmstadt, 1963. *ARRs-Harwell


Results From the Construction of a Supernova Inside a Rocket, by W. Freitag, H. J. Martin. GERMANN, per, Akustik, Vol VIII, 1958, pp 197-201. *AEC


*ARs-LA-19-64-2
ARC-UCRL-Tr-10498(L)

ARC-ANL-Tr-20

ARC-SC-Tr-4

Thermal Diffusion of Li Isotopes in Pure Molten Lutum Nitrate, by Silas Guldason, Arnold Linden, 6 pp.
ARC-MT-Tr-45

Magnetic Mirrors to Provide Controlled Hydrogen Plasmas, by Angelo Cunni, 7 pp.
ITALIAN, per Progress, 3 Jul 1964, p 8.
JPRS 26022

We Saw The Famous Hot Cells at Saclay, by Angelo Cunni, 6 pp.
ITALIAN, per Progress, 6 Jul 1964, p 8.
JPRS 26022

ARC-AI-Tr-8

Oxidation of Methane at High Temperatures, by H. A. Schenkel.
ARC-TR-Harwell

Determination of Neutrons From Gamma Rays in the Solitonization Counter, by Takayasu Funo, 12 pp.
JAPANESE, per Japan Atomic Energy Research Institute, Jan 1961. 9224359
ARC-ANL-Tr-17-20

A Calculation of the Maximum Concentration on the Ground and Its Distance From Source, by K. Imai. JAPANESE, per Japan Atomic Energy Research Institute, 1962.
ARC-ANL-Tr-17-20

Rapid Determination of Nitrogen in Nitrogenous and Nitric Acid by Titration With Ferrous Sulphate, by Teruho Murokami, 20 pp.
ARC-UCRL-Tr-10521(L)
The Deceleration and Energy Conversions of a Plasma Expanding in a Vacuum In the Presence of a Magnetic Field, by Yu. F. Rayzer, 18 pp. AR-A4T-525, pp 10-18, 1961


GERMAN, per, Neue Technik, Vol V, 1963, pp 504-508, 9224535
ABC-ORNL-Tr-49

GERMAN, per, Neue Technik, Vol V, 1963, pp 542-547, 9224535
ABC-ORNL-Tr-74

GERMAN, per, Physikalische Zeitschrift, Vol XXXIV, 1933, pp 478-482, 9224535
ABC-UCLR-Tr-10361

GERMAN, per, Zeitschrift fur angewandte Mathematik, Vol I.XVIII, No 19, 1950; No 20, 1950, pp 257-267, 9224535
ABC-ORNL-Tr-237

ABC

GERMAN, per, Zeitschrift fur Physikalische Chemie, Vol I.XVI, 1962, pp 617-627, 9224535
ABC-SC-1-64-916

Electrical Strength and Crystal Structure, by A. V. Himmel, GERMAN, per, Z. fuer Physik, Vol XXXV, 1932, pp 145-170
ABC

Higher States of Radiation of Color Centers, by Fritz Lany, 80 pp.
GERMAN, per, Zeitschrift fur Physik, Vol CLXX, 1940, pp 1-15, 9224535
ABC-ORNL-Tr-71

The Attachment of Radioactive Atoms to Aerosol Particles, in the Particle Range From 0.70 to 4.6, by L. K. Lasse, Herman Weitzkel, 15 pp.
GERMAN, per, Z. fuer Physik, Vol CLXI, 1961, pp 339-345, 9224535
ABC

On Oxidation of Ferments From Higher Plants, II. The Lipoprotein and Lipoprotein Lipase and Their Mutual Correlations, by Wilhelm Franke, Helmut Frehner, 30 pp.
ABC-ARL-Tr-21

ITALIAN, per, Nuovo Cimento, Vol VI, No 10, 1957, pp 813-841
ABC-ANL-Tr-30

ABC

Photographic Factor in Electromicroscopy, by Taya Shima, 19 pp.
ABC-SC-1-64-610

ABC

ABC

Thermal Conductivity of High Polymers, II. Thermal Conductivities of Polyethylene and Polyethylene, by Makoto Katoh, S. Nakamura, JAPANESE, per, Kobunshi Katsu, Vol XV, 1958, pp 283-286
ABC

Thermal Conductivity of High Polymers, III. Thermal Conductivities of Low-Polymer Polyethylene, by Makoto Katoh, JAPANESE, per, Kobunshi Katsu, Vol XVII, 1960, pp 432-435
ABC

Polymer, by R. J. Kawasaki, JAPANESE, per, Zairyo Sekken Kyoshii, Vol X, 1961, pp 394
ABC

POLISH, per, Polyhedral Crystals, Leningrad, 1963, pp 5-27
ABC-ANL-Tr-31

UKRAINIAN, per, Dopold Akademi Nauk SSSR, No 4, 1963, pp 1470-1473, 9224535
ABC-ANL-Tr-4-210
Problem of Adherent, by WuShih-kl'ang, Chou I-chhiin, et al., 25 pp., CHINESE, per, K'uai-shan Ch'ung-shen, No 6, 1964, pp 482-494. JPRS 26193

Dynamics of Catalytic Chromatogram, by Chang Su, Lou Nan-ch'uan, et al, 9 pp. CHINESE, per, K'uo-kuo Ch'ung-shen, No 6, 1964, pp 551-554. JPRS 26128


Scientific and Technological Research and Propagation at the Hanoi Machine-Tool Plant, by Vo Thanh Cong, Dang Dikh Thanh, 8 pp. VIETNAMESE, per, Tin Teu Hanh Dong Khoa Hoa, No 59, May 1964, pp 1-8. JPRS 25459
INFORMATION RECEIVED DURING SEPTEMBER
ON COVER-TO-COVER TRANSLATIONS


Kristallografiiya, Vol IX, No 1, Jan, Feb 1964.


Amer Math Soc Vol V, No 2
CB
Amer Geol Inst
CB
Amer Inst of Phys Sov Phys-Doklady Vol IX, No 1
Amer Inst of Phys Sov Phys-Solid State Vol VI, No 1
JPRS 26019
CTT
JPRS 26079
CB
Amer Inst of Phys Sov Phys-Crystal Vol IX, No 1
JPRS 26211
Primary Sources
Vestnik Svyazi, Vol XXIV, No 8, 1964. (NY-7855)


JPRS

Amer Inst of Phys
Sov Phys-JETP
Vol XIX, No 2

CR

Amer Inst of Phys
Sov Phys-Tekh Phys
Vol IX, No 1
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
<th>Page (Chinese)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homology operations, I</td>
<td>Yue Jing-zhong*</td>
<td>179</td>
<td>199</td>
</tr>
<tr>
<td>Homology operations, II</td>
<td>Yue Jing-zhong</td>
<td>196</td>
<td>217</td>
</tr>
<tr>
<td>Approximate representations and extremal problems of ( \varepsilon )-quasiconformal mappings</td>
<td>Cheng Hao-long</td>
<td>212</td>
<td>233</td>
</tr>
<tr>
<td>Enumerative quantifiers and predicate calculus</td>
<td>Mo Shao-kuei</td>
<td>218</td>
<td>239</td>
</tr>
<tr>
<td>The exact constant of approximation of continuous functions by the Jackson singular integral</td>
<td>Wang Xing-hua</td>
<td>231</td>
<td>254</td>
</tr>
<tr>
<td>On locally bounded topological algebras</td>
<td>Xin Tao-hsing</td>
<td>238</td>
<td>261</td>
</tr>
<tr>
<td>Minimax estimates of parameters of distributions belonging to the exponential family</td>
<td>Cheng Ping</td>
<td>252</td>
<td>277</td>
</tr>
<tr>
<td>Minimax estimates of parameter vectors of translation</td>
<td>Chen Xi-ru</td>
<td>276</td>
<td>300</td>
</tr>
<tr>
<td>Feinstein's lemma for a finite system of channels</td>
<td>Ma Xi-wen</td>
<td>291</td>
<td>316</td>
</tr>
<tr>
<td>Estimation of the Nielsen numbers</td>
<td>Jiang Horju</td>
<td>304</td>
<td>330</td>
</tr>
<tr>
<td>On lacunary Fourier series</td>
<td>Xie Ting-fan</td>
<td>313</td>
<td>340</td>
</tr>
</tbody>
</table>

Available From American Mathematical Society

Vol V, No 2
CONTENTS

Future Progress in the Field of Experimental Biology and Medicine ........................................... 477  

Sympathetic Origin of Spontaneous Impulses Recorded in a Mixed Nerve of the Frog  
  - M. V. Kirzon and F. V. Kopyrova ..................................... 478  

Electrophysiological Evidence of the Connections Between the Globus Pallidus  
  and other Divisions of the Central Nervous System in Man. Report 2. Connections  
  Between the Globus Pallidus and the Spinal Centers and Autonomic Formations  
  of the Brain Stem - I. M. Gil'man, I. M. Itiger, E. Yu. Rivina, and F. P. Yasinovskaya  
  Connections Between the Reticular Division of the Reticular Formation  
  and the Small Intestine - O. P. Dobromyslova and A. A. Zubkov ................................................................. 485  

Vasomotor Reactions of the Abdominal Viscera at Different Arterial Pressures  
  - V. P. Kulagina ...................................................................... 489  

Lipoprotein Lipase as Humoral Agent of the Physiological Anticoagulant System  
  - B. A. Kudryashov, G. G. Naske'yan, S. S. Trapetznikova, and V. N. Novova  

The Physiology of Membrane Digestion, Report 4. Intravascular Hydrolysis of Starch  
  in the Frog - A. M. Ugolev and V. V. Chemousova ................................................................. 497  

PATHOLOGICAL PHYSIOLOGY AND GENERAL PATHOLOGY

Disturbance and Restoration of Motor Functions in Ducks after Hemisection  
  of the Spinal Cord - S. N. Ivanova ................................................ 500  

An Experimental Study of the Portal Circulation in the Agency Period and During  
  Resuscitation from Clinical Death - Yu. M. Levin ................................................................. 504  

Effect of the Degree of Myocardial Hypertrophy Associated with an Experimental Heart Defect  
  on the Resistance to Altitude Hypoxia - Yu. M. Repin ................................................................. 508  

Changes in the Erythrocytes During Prolonged Fasting and Subsequent Feeding - Yu. L. Shapira  
  Stimulation of the Mechanoreceptors of the Intestinal Wall as a Cause of Dynamic  
  Intestinal Obstruction - Yu. M. Gal'perin ................................................................. 515  

The Effect of Parasympathetic Stimulation on the Histaminic-Binding Power of the Blood  
  of Albino Rats and Guinea Pigs - I. V. Domaradski and V. I. Krupenina  

The Effect of ACTH on the Development of the Anaphylactic Phenomenon and on the Morphological  
  Composition of the Inflammatory Exudate - E. M. Mikhaylova ................................................................. 521  

Available From Consultants Bureau  

(Continued)
CONTENTS (continued)

BIOCHEMISTRY AND BIOPHYSICS

Changes in the Protein Composition of Skeletal, Cardiac, and Smooth Muscle After Castration - V. A. Yurev, Z. N. Zhakhova, and N. I. Lopatina .................................. 523 54
Role of the Contractile Proteins in Determining the Resistance of Muscle Tissue to External Agents - G. I. Grigor'eva ......................................................... 526 57
Effect of the Hypophyseal Preparation Adiporm on the Lipolytic Activity of Adipose Tissue and on the Serum Concentration of Free Higher Fatty Acids - S. M. Leites and N. K. Davryan ................................................................. 529 60
Effect of Adrenalectomy on Tyrosine Retention by the Liver and on Its Blood Level in Dogs and Rats - T. N. Protasova and V. P. Fedotov ........................................... 532 83
Pathogenetic Mechanisms of the Pyrexial Reaction to Streptococcal Antigens - V. I. Pytkil ........................................................................................................... 538 89

PHARMACOLOGY

Paramonium Contraction of the Dorsal Muscle of the Leech During the Action of Anti-Cholinesterase Drugs - A. I. Podleas ........................................................................ 546 70
Effect of Calcium Chloride and Magnesium Sulfate on the Development of Rigor Mortis - S. V. Oupova ........................................................................................................ 550 82

MICROBIOLOGY AND IMMUNITY

Genetic Recombinations in Intestinal Bacteria. Communication 1. Hybridization Between Escherichia coli and Shigella flexneri - A. P. Pokhov and A. A. Abidov ........................................ 555 88
Detection of Virus Antigen In an Infected Cell Using 131-Labelled Antibodies - V. M. Zakhanova and E. M. Zhantiev .............................................................................. 558 91

ONCOLOGY

A Study of the Karyotype of a Monolayer Culture of Carcinoma of the Human Stomach - E. P. Ugryumov and M. T. Tsoeva-Maneva ........................................................................ 560 93
Sex Differences in the Excretion of O-Aminotoluene by Mice - G. A. Beliakht .......................................................... 563 96

EXPERIMENTAL BIOLOGY

Laws of Growth of Mammary Gland Tissues in In Vivo Culture - Z. S. Khlystov .................................................................................................................. 569 101
Diurnal Rhythm of Cell Division in Tissue Cultures - N. I. Zaskal'ko ......................................................................................... 572 104
The Pars Intermedia of the Hypophysis During Salt Loading - É. L. Soboleva ...................................................................................... 577 108
A 'Hybrid' Antigen In Monkeys (Tropotheicus gelada K Papio hamadryas) - S. V. Kon'yukhov, N. P. Bochkov, and M. V. Sakhina ...................................................... 581 111

METHODS

An Experimental Model for the Study of the Interaction Between the Cerebral Cortex and Subcortical Formations - A. M. Kichkov .................................................................. 585 115

Available From Consultants Bureau
# CONTENTS

## PHYSIOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>ENG.</th>
<th>RUSS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summation and Adaptation in Stimulation of the Motor Cortex In Adult and Newborn Animals</td>
<td>591</td>
<td>3</td>
</tr>
<tr>
<td>The Position of the Visceral Afferent Pathways in the Internal Capsule—O. G. Baklavadzhan</td>
<td>506</td>
<td>8</td>
</tr>
<tr>
<td>Electrical Activity of the Cerebral Hemispheres after Section of the Brainstem (Bremer's Method)</td>
<td>604</td>
<td>14</td>
</tr>
<tr>
<td>The Position of the Visceral Afferent Pathways in the Internal Capsule—O. G. Baklavadzhan</td>
<td>606</td>
<td>19</td>
</tr>
<tr>
<td>Localization of Function in the Cerebral Cortex of the Rat, Communication II, Conditioned Reflex Activity of Rats after Removal of the Occipital Cortex—Dang-Tikh,</td>
<td>610</td>
<td>34</td>
</tr>
<tr>
<td>The Effect of Destruction of the Posterior Hypothalamus on the Basal Metabolic Rate</td>
<td>611</td>
<td>25</td>
</tr>
<tr>
<td>Investigation of the Mechanism of Chemoreception, Report V. The Effect of Tetraethylammonium on the Ability of the Small Intestine Receptors to Perceive Various Chemical Stimuli—N. A. Anikina,</td>
<td>614</td>
<td>29</td>
</tr>
<tr>
<td>On the Causes of Automatic Excitation of the Frog Respiratory Center—V. A. Dovzhenko, N. A. Buniarenko,</td>
<td>615</td>
<td>31</td>
</tr>
</tbody>
</table>

## PATHOLOGICAL PHYSIOLOGY AND GENERAL PATHOLOGY

<table>
<thead>
<tr>
<th>Title</th>
<th>ENG.</th>
<th>RUSS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physiological Analysis of Dismed's Prophylactic Action in Hemoheterotransfusion Shock</td>
<td>624</td>
<td>40</td>
</tr>
<tr>
<td>Change in the Body Temperature of White Mice Following Total Irradiation with Roentgen Rays</td>
<td>632</td>
<td>48</td>
</tr>
<tr>
<td>The Effect of Hypovitaminosis C on the Course of Experimental Intestinal Infections in Monkeys</td>
<td>634</td>
<td>52</td>
</tr>
</tbody>
</table>

## BIOCHEMISTRY AND BIOPHYSICS

<table>
<thead>
<tr>
<th>Title</th>
<th>ENG.</th>
<th>RUSS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evidence of the Presence of Insulin in Urine—L. L. Liberman,</td>
<td>639</td>
<td>56</td>
</tr>
<tr>
<td>Effect of Thyroid Hormone on Blood and Liver Glucose-6-Phosphatase Activity—G. A. Posta</td>
<td>642</td>
<td>59</td>
</tr>
</tbody>
</table>
CONTENTS (continued)

Effects of Brief and Prolonged Stimulation of the Hypothalamus on the Free and Combined Cholesterol Contents of Blood — Yu. N. Boryushkov and L. Kh. Garkavi ............ 845 81
Glycogen, Lactic Acid, and Pyruvic Acid Contents of the Myocardium under Conditions of Compensatory Hyperfunction — A. P. Beschkov ................................. 653 66

PHARMACOLOGY
Amytal Resistance in Animals Adapted to Cold, and Some Features Peculiar to the Mechanism of Its Narcotic Action — S. P. Maslov and I. N. Ivashkina .................................... 655 72
N, N1-Malonyl-Bis-Ethylenimine (MEI) and Some of Its Biological Properties
— L. B. Borisov, V. G. Belin, L. B. Dashkevich, and G. S. Yakovleva ....................... 660 76

MICROBIOLOGY AND IMMUNITY
Conditioned Reflex Regulation of the Serum Globulin Level — V. I. Luk'yanchenko,
Biological Activity of the Polysaccharide Glucan — G. F. Valberg, A. I. Brandt, 
T. V. Golosova, V. M. Kuznetsova, and M. E. Preobrazhenskaya .............................. 667 84
Transplacental (Passive) Transmission of Plague Antibodies in the Great Gerbil
Serological Investigations in Prague — M. I. Levi and Yu. G. Suchkov ............. 670 88

EXPERIMENTAL BIOLOGY
The Influence of STII and ACTH on Repair Processes in Wounds — A. A. Votkevich
Regeneration of the Liver in Monkeys — Z. A. Ryabinina and L. B. Ustina ............... 674 92
  678 97

MORPHOLOGY AND PATHOMORPHOLOGY
Condition of the Cerebellar Nuclei after Extirpation of the Cortex and the Total Removal of One of the Cerebral Hemispheres — K. I. Nazhovshchina ........................................ 682 102
A Fluorescence-Microscopy Study of the Early Stages of Experimental Myocardial Infarct
— V. S. Kondrat'ev and E. F. Lusnikov ................................................................. 688 105

METHODS
A Chronic Gastric Fistula for Rats — N. N. Lobodov, Yu. N. Donshaeva, A. I. Baryzel, and
V. G. Shmakov .................................................................................................................. 694 111
Permanent Set-up for Recording the Kinetic Cardiogram (KCG) in Animals — I. E. Chernikov and A. A. Sablinov .............................................................. 697 112
Kymographic Recording of the Pressure in the Right Ventricle of Rabbits and Cats
— L. P. Cherkasov ........................................................................................................... 700 116

Available From Consultants Bureau
### Earth Science Sections

**Vol. 145, Nos. 1-6** *(Russian original dated July-August 1962) June 1964*

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Geophysics</strong></td>
</tr>
<tr>
<td>A METHOD FOR DETERMINING THE DEPTH OF THE CRUSTAL BASEMENT USING EARTHQUAKES, by A. N. Tikhonov and B. S. Eroshchev</td>
</tr>
<tr>
<td>THE QUESTION OF AMPLITUDE CURVES OF LONGITUDINAL SEISMIC WAVES, by V. V. Golikov, T. B. Yanowskaya, and B. Ya. Gel'chunskiy</td>
</tr>
<tr>
<td>THE LIMITS OF APPLICABILITY OF BOUGUER'S LAW AND THE EFFECTS OF ANOMALOUS AND &quot;SELECTIVE&quot; ATMOSPHERIC TRANSPARENCY AND THE &quot;UKHEIR&quot; EFFECT, by G. V. Rozcnberg</td>
</tr>
<tr>
<td>SHORT-PERIOD WAVE-TRAIN TYPE OSCILLATIONS OF THE NATURAL ELECTRIC FIELD IN THE SEA, by R. V. Smirnov</td>
</tr>
<tr>
<td>RELATIONSHIP BETWEEN THE GRAVITY FIELD AND GEOLOGIC STRUCTURE OF EXPLORED REGIONS OF ANTARCTICA, by S. A. Ushakov</td>
</tr>
</tbody>
</table>

| **Geology** |
| DATING OF THE GLACIAL-LAKE DEPOSITS OF THE ONEGA PENINSULA, by T. M. Vostrukhina | 14 |
| RHYTHMIC VARIATIONS IN THE FORMS OF STROMATOLITHS IN THE ANCIENT TURKSHAN COMPLEX, by O. A. Voskhod and V. M. Chayka | 16 |
| CONTRIBUTION TO THE VEGETATIONAL HISTORY OF THE LATE PLIOCENE IN THE CENTRAL VOLGA REGION, by T. A. Kuznetsova | 22 |
| COMPARISON OF SOME TURKSHAN FORAMINIFERA OF THE USSR WITH THOSE OF WEST GERMANY, by O. A. Lipina | 24 |
| THE TRANSITIONAL AND EARLY PLATFORM DEVELOPMENT OF THE WESTERN CAUCASUS, by M. F. Murzhink | 27 |
| CORRELATION OF THE PRECAMBRIAN SECTIONS OF EASTERN SAYAN AND THE SANGIEN HIGHLANDS OF TURA, by A. D. Smirnov and Ye. N. Altukhov | 30 |
| DISCOVERY OF A COMPLETE SEQUENCE OF UPPER BAVLYNIAN DEPOSITS IN THE CAUCASIAN BASIN, by K. R. Timergazin | 32 |
| A FINDING OF RAINPRINTS, by V. I. Chalyshina | 34 |
| FLORA OF THE BERO-PERMOCRASSIC FORMATION ON THE IRISH, by P. I. Dorofeyev | 38 |
| FLORAS OF THE DEPOSITS IN THE KARABAG REGION, CRIMEA, by V. P. Kamy-Lin and I. L. Ral'mon | 42 |
| DISCOVERY OF LIMESTONES IN THE SOUTHERN PART OF THE CRIMIAN GORONYNE, by V. I. Levchinsky and T. I. Dorovol'skaya | 43 |
| CONTRIBUTION TO THE STRATIGRAPHY OF THE CARBONIFEROUS AND PERMIAN SECTIONS IN THE KHALABOVSK TERRITORY, by A. D. Mikhalko-Maklay and A. I. Savchenko | 45 |

Available From American Geological Institute
SIGNIFICANCE OF TRIASSIC FOSSILS FOUND IN THE EASTERN PART OF THE KORYAK RANGE, by L.M. Rusakov and A.L. Trukhalev ............... 49

ON THE AGE AND LITHOLOGIC COMPLEXES OF THE SULFATE-CARBONATE LOWER PERMIAN STRATA IN THE VOLGOGRAD AREA, by A.V. Urusov ........................................ 50

NEW DATA ON THE AGE OF GRANITOID PLUTONS OF THE NORTHERN (CIRCUMPOLAR) URALS, by M.V. Fishman ........................................ 53

REEFS AND TRACHYTOPHORANS OF THE SOUTHERN CIS-URAL REGION, by P.I. Khitisonan and V.A. Tikhonova ............................... 56

AN OCCURRENCE OF CAMBRIAN FOSSILS IN THE META-SEDIMENTARY ROCKS OF THE NORTH BAIKAL HIGHLANDS, by D.Ts. Tsyrezov and V.I. Dubchenko ........................................ 59

THE MORSOV HORIZON IN THE EIFELIAN STAGE, AND ITS ANALOGUES IN THE EASTERN PART OF THE RUSSIAN PLATFORM, by Ye.V. Chibrikova. ..................... 61

PALEOCENE STRATA OF THE PRIKUMSK AREA, EASTERN CAUCASUS APPROACHES, by M.S. Babushkin and Yu. N. Shvemberger .......... 63

PALEOGEOGRAPHIC SIGNIFICANCE OF A CORBICULA FLUMINALIS MOLL. FIND IN THE LOWER REACHES OF THE IRTYSH RIVER, by V.S. Volkova ...................... 65

NEW DATA ON THE UPPER CARBONIFEROUS OF CHERSHYSHEV RIDGE, by A.I. Yeliseyev and Z.P. Mikhailova ............................... 67

NATURE OF THE WESTERN BOUNDARY OF THE URALTU ANTICLINORIUM IN THE POLAR URALS, by A.S. Pertil'yev ........................................ 69

THE STRUCTURE AND POSSIBLE COMPOSITION OF THE CRYSTALLINE PARTS OF THE CRUST, by L.V. Pomerantseva ..................... 72

DIVISION OF NORTHWESTERN SIBERIA IN ACCORDANCE WITH THE MORPHOLOGY AND ORIGIN OF THE GLACIAL RELIEF IN RELATION TO VARIATIONS IN THE ZYRAN GLACIATION, by S.A. Strelkov ..................... 74

THE SCHWADERNA HORIZON IN THE VOLGOGRAD AREA ALONG THE VOLGA, by A.V. Urusov ........................................ 76

STRATIGRAPHY OF THE DEVONIAN IN THE TUSTUZHIL SYNCLINE, SOUTH MINUSINSK BASIN, by A.R. Ananyev and V.I. Krasnov ........................................ 79

THE POSTGLACIAL HISTORY OF TRANSBAIKAL GEOGRAPHY, by P.B. Vipper ........................................ 82

NEW DATA ON THE GEOThERMAL GRADIENT OF THE BUKHARA-KHIVA OIL AND GAS PROVINCE, by V.N. Korsunskiyev ..................... 84


FOSSIL POLLEN OF THE TULIP TREE (I. IRIODENDRON L.) IN WESTERN TURKMENIA, by Ye.A. Mal'gina ..................... 91

CONSIDERATION OF THE DEFORMATION OF ROCKS IN LOWER CARBONIFEROUS TERRIGENOUS STRATA IN NORTHWESTERN BASHKIR ASSR, by A.D. Shchekhtin and D.V. Posnikov ........................................ 92

NEW DATA ON THE RUCOVSKIAN SEDIMENTS IN THE MOLDAVIAN SSR, by V.Kh. Reshko and V.S. Sayanov ........................................ 94

A MARINE DIATOM FOSSIL FLORA IN THE INTERFLUVE BETWEEN LAKE ONEGA AND LAKE VYRTSA (VYRTSA RIVER REGION), by Ye.A. Cheremisinova ..................... 97

SPORE-POLLEN ANALYSIS AND THE VARIATIONS IN THE FLORA OF GURIA DURING THE KUYAL'NIKIAN EPOCH, by I.I. Shatilova ............................... 100

SPORES, POLLEN, AND DIATOMS OF THE GLACIAL-LAKE DEPOSITS IN THE SOUTHERN BAYKAL PENINSULA, by T.M. Vostrokhina and T.Ye. Ladyshkina ........................................ 102


CONDITIONS OF FORMATION OF SOME VARIEGATED HORIZONS IN THE UPPER CARBONIFEROUS OF WESTERN AREAS OF THE DONBAS, by M.T. Kucherenko and B.P. Rudnevvov ........................................ 105

RATE AND CONDITIONS OF FORMATION OF WEALEDROUS CRUSTS, by V.O. Solovyev ........................................ 107


GEOLoGY AND GENESIS OF CUPRIFEROUS SANDSTONES IN THE USOKAN REGION (EASTERN SIBERIA), by Yu.V. Bogdanov ............................... 110

COMPARISON OF THE KHALILOV SUITE IN THE PALEOGENE OF TADZHIKISTAN WITH THE CHEGAN SUITE OF THE ARAL REGION, by D.D. Saznrov ........................................ 112

TECTONIC CHART FOR SOUTHWEST DAVYIZ, by V.O. Vlasov ........................................ 114

GEOLoGY AND THE OlSISS SUITE AT THE NEW MOUSTERIAN CAMPSITE IN THE KUZOV'YE IN THE LIGHT OF PALYNOLOGIC DATA, by V.A. Yurkevich ........................................ 117

NEW DATA ON LOWER SILURIAN VOLCANIC ROCKS IN THE UPPER REACHES OF THE KOLYAKAN, by A.B. Derevyanov ........................................ 119


Available From American Geological Institute (Continued)
## Contents (Contd)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>On the boundaries and time of formation of the western part of the</td>
<td>125</td>
</tr>
<tr>
<td>Black Sea Basin, by A. V. Drunya</td>
<td></td>
</tr>
<tr>
<td>Stratigraphic subdivision of the Ordovician and Silurian on the basis</td>
<td>127</td>
</tr>
<tr>
<td>of rugose corals, by A. B. Ivanovskiy</td>
<td></td>
</tr>
<tr>
<td>The upper boundary of the kimmeridjan stage, by N. P. Mikhailov</td>
<td>129</td>
</tr>
<tr>
<td>Manganese coating on minor chemical varieties of garnet</td>
<td></td>
</tr>
<tr>
<td>Some gingko, by A. G. Vologdin</td>
<td>131</td>
</tr>
<tr>
<td>A New single-walled archaeocyathid genus with a pulse intervalum,</td>
<td>134</td>
</tr>
<tr>
<td>by A. G. Vologdin</td>
<td></td>
</tr>
<tr>
<td>Post-sedimentation changes in the marine clays around the Baku</td>
<td></td>
</tr>
<tr>
<td>archipelago, by A. M. Manyusko</td>
<td></td>
</tr>
<tr>
<td>Hydrogeology</td>
<td></td>
</tr>
<tr>
<td>Hypergene magnetite from the weathered crust of ultrabasic rocks</td>
<td>137</td>
</tr>
<tr>
<td>Middle Dnieper region, by A. U. Litvinienko and G. M. Drozdov</td>
<td></td>
</tr>
<tr>
<td>Autogenic tourmaline from the khudzha-munyn rock salt deposit, by V. S. Popov and T. S. Sadykev</td>
<td>140</td>
</tr>
<tr>
<td>Recent ginnabar deposits at apapell springs, by I. I. Shcheglov</td>
<td>141</td>
</tr>
<tr>
<td>Petrography</td>
<td></td>
</tr>
<tr>
<td>Nature of the anorthite gabbros at serbryanskii kamen and of the</td>
<td>143</td>
</tr>
<tr>
<td>associated copper mineralization, by A. A. Yefimov and T. I. Kuspalu</td>
<td></td>
</tr>
<tr>
<td>Mineralogic form of the iron disulfide concretions in the dnieper</td>
<td>146</td>
</tr>
<tr>
<td>Brown-coal basin, by P. V. Zasteki</td>
<td></td>
</tr>
<tr>
<td>Varieties of garnet in the upper carboniferous of the dnieper-donets</td>
<td>148</td>
</tr>
<tr>
<td>and margins of the donbas basins, by S. V. Litvin</td>
<td></td>
</tr>
<tr>
<td>Association of hydrothermal dolomite with bitumen and sulfides in the</td>
<td>150</td>
</tr>
<tr>
<td>devonian of the northern part of the kazan-kirov trough, by S. S. Eiern, I. N. Pen'kov, B. S. Strukov, et al.</td>
<td></td>
</tr>
<tr>
<td>Rheomorphic veins in a limestone xenolith from the &quot;peace&quot; kimberlite</td>
<td>152</td>
</tr>
<tr>
<td>pipe, by A. A. Menyaylov</td>
<td></td>
</tr>
<tr>
<td>Lithology</td>
<td></td>
</tr>
<tr>
<td>A New type of cimmerian iron ore in the kurch basin, by Ye. P. Shnyukov</td>
<td>154</td>
</tr>
<tr>
<td>Geochemistry</td>
<td></td>
</tr>
<tr>
<td>Chemical study of the fossil skin of an amphibian from the lower</td>
<td>158</td>
</tr>
<tr>
<td>permian period, by T. V. Drozdova</td>
<td></td>
</tr>
<tr>
<td>Minor elements in the pre-devonian (bavlyniyan) rocks of western</td>
<td>161</td>
</tr>
<tr>
<td>Bashkiria, by S. G. Morozov</td>
<td></td>
</tr>
<tr>
<td>Manganese coating on pebbles in modern alluvium, lesser kungan</td>
<td>164</td>
</tr>
<tr>
<td>Range, by V. V. Nikol'shchaya</td>
<td></td>
</tr>
<tr>
<td>New data on the genesis of ground waters in the productive bed of</td>
<td>166</td>
</tr>
<tr>
<td>azerbaydzhan, by G. M. Sukharev and T. S. Krumboldt</td>
<td></td>
</tr>
<tr>
<td>Paleontology</td>
<td></td>
</tr>
<tr>
<td>A new fossil ceratopiyllum from the oligocene deposits of the</td>
<td>169</td>
</tr>
<tr>
<td>zalysan basin, by G. S. Avakov</td>
<td></td>
</tr>
<tr>
<td>A new single-walled archaeocyathid genus with a pulse intervalum,</td>
<td>171</td>
</tr>
<tr>
<td>by A. G. Vologdin</td>
<td></td>
</tr>
<tr>
<td>Some ginkgo wood from the upper cretaceous deposits in the south-</td>
<td>173</td>
</tr>
<tr>
<td>western kyzykum region, by R. Khadzhelyadyiev</td>
<td></td>
</tr>
<tr>
<td>Fossil wood of liquidambars from the oligocene deposits of kazakhstan,</td>
<td>176</td>
</tr>
<tr>
<td>by I. A. Shukina</td>
<td></td>
</tr>
<tr>
<td>A new fish-like species from the lower devonian deposits in the</td>
<td>178</td>
</tr>
<tr>
<td>gunnyk alay region, by N. P. Rad'kov</td>
<td></td>
</tr>
<tr>
<td>Some geographic aspects of the composition of the pollen from the</td>
<td></td>
</tr>
<tr>
<td>pleistocene deposits on the shores of lake baikal, by Y. V. Lamanin</td>
<td>182</td>
</tr>
<tr>
<td>Chaparralites from the triassic varicolored deposits of the great</td>
<td></td>
</tr>
<tr>
<td>donets basin, by L. Ya. Sadykovsky</td>
<td>185</td>
</tr>
<tr>
<td>Paleontological studies of the Cimmerian iron ore in the Kurch basin,</td>
<td></td>
</tr>
<tr>
<td>by Ye. P. Shnyukov</td>
<td></td>
</tr>
<tr>
<td>Available from American Geological Institute</td>
<td></td>
</tr>
</tbody>
</table>
### CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
<th>Issue</th>
<th>Volume</th>
<th>RUSS. Issue</th>
<th>RUSS. Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Effect of Additives on the Dissociation of Cadmium Carbonate.</td>
<td>L. G. Berg and V. P. Kovyrzina</td>
<td>563</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>117</td>
</tr>
<tr>
<td>L-Absorption X-Ray Spectra of Lanthanum, Praseodymium, Neodymium,</td>
<td>É. E. Vainshtein, I. B. Staryi</td>
<td>566</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>120</td>
</tr>
<tr>
<td>and Samarium in Oxides and Fluorides.</td>
<td>M. N. Brill'</td>
<td>568</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>122</td>
</tr>
<tr>
<td>A Study of Intermolecular Electron Transfer Under Flash Photolysis.</td>
<td>G. D. Dmitrievskii, and A. N. Terenin</td>
<td>570</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>125</td>
</tr>
<tr>
<td>The Atomic Structure of the Polyene Form of Carbon.</td>
<td>V. I. Kasatochkin, O. I. Egorova and Yu. G. Aseev</td>
<td>572</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>127</td>
</tr>
<tr>
<td>The Diffusion of Organic Cations in Sulfonated Cation-Exchange Resins.</td>
<td>G. S. Libinson</td>
<td>575</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>130</td>
</tr>
<tr>
<td>A Study of the Intensity of Emission of Mechanoelectrons in the Deformation and Detachment of Polymer Films.</td>
<td>A. M. Poljakov and N. A. Krotova</td>
<td>579</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>134</td>
</tr>
<tr>
<td>The Effect of Fixing Polypeptide Chains in Two Conformations.</td>
<td>V. A. Pchelin, N. V. Grigor'eva and V. N. Izmalkova</td>
<td>581</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>136</td>
</tr>
<tr>
<td>A Mass Spectroscopic Method of Determining Partial Pressures of Vapors and Relative Ionization Cross Sections of Molecules from Total Vaporization Isotherms.</td>
<td>L. N. Sidorov and P. A. Aikinshin</td>
<td>585</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>140</td>
</tr>
<tr>
<td>The Effect of the Molecular Weight on the Viscosity and Heat of Activation of Concentrated Polysobutylene Solutions.</td>
<td>A. A. Tager, V. E. Dreval', and N. G. Tryayanova</td>
<td>589</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>144</td>
</tr>
<tr>
<td>The Passivation Characteristics of Iron Based Alloys.</td>
<td>G. M. Florianovich and Ya. M. Kolotyrkin</td>
<td>592</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>148</td>
</tr>
<tr>
<td>Inhibitor Participation in Degenerative Chain Branching.</td>
<td>Yu. A. Shlyapnikov, V. B. Miller, M. B. Neiman and E. S. Torsueva</td>
<td>595</td>
<td>1</td>
<td>151</td>
<td>1</td>
<td>151</td>
</tr>
<tr>
<td>The Effect of Adsorption on the Rate of Reactions on a Platinum Electrode in the System Guaiacol-Hydroquinone.</td>
<td>Yal Lu-an, V. E. Kazarinov, Yu. B. Vasil'ev and V. S. Bagotskii</td>
<td>598</td>
<td>2</td>
<td>151</td>
<td>2</td>
<td>357</td>
</tr>
</tbody>
</table>

Available From Consultants Bureau

- 74 -
<table>
<thead>
<tr>
<th>A Radiochemical Study of the Electrode Processes on Bismuth Amalgam,</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. V. Godetskii and V. V. Losev ........................................ 602</td>
</tr>
<tr>
<td>Thermal Explosion during Convective and Conductive Transmission of Heat,</td>
</tr>
<tr>
<td>A. M. Gritsin and O. M. Todes ........................................... 606</td>
</tr>
<tr>
<td>An EPR Study of the Radical Adsorption of Molecular Oxygen on Reduced</td>
</tr>
<tr>
<td>Titanium Dioxide. — V. B. Kazanskii, O. V. Nikitina, G. B. Partiskii and</td>
</tr>
<tr>
<td>V. F. Kiselev ........................................................................... 610</td>
</tr>
<tr>
<td>......................................................................................... 614</td>
</tr>
<tr>
<td>The Electrotransfer of Ions in Absolute Sulfuric Acid. — O. K. Kudrya, A. N.</td>
</tr>
<tr>
<td>Zhitomirskii and Yu. Ya. Flakhov .......................................... 617</td>
</tr>
<tr>
<td>Instability Criteria of Shear Deformation Regimes in Elastic-Viscous Polymer</td>
</tr>
<tr>
<td>The Effect of Temperature on the Diffusion of Mercury In Zinc. — N. A.</td>
</tr>
<tr>
<td>Pleteneva and N. P. Fedoseeva ............................................. 624</td>
</tr>
<tr>
<td>The Formulation of HD Through the Reaction of Gaseous Hydrogen Atoms with</td>
</tr>
<tr>
<td>Solid Deuteropolypethylene. — V. E. Skurat and V. L. Tal'troze. ............... 627</td>
</tr>
<tr>
<td>The Theory of Capillary Equilibrium in the Porous Body. — A. A. Cherenko</td>
</tr>
<tr>
<td>and Yu. A. Chizmadzhiev ......................................................... 631</td>
</tr>
<tr>
<td>The Viscosity of n-Hexane In the Liquid and Gaseous State at High Pressures</td>
</tr>
<tr>
<td>and Different Temperatures. — N. A. Agaev and I. F. Golubev .................. 635</td>
</tr>
<tr>
<td>The Influence of Image Forces on the Distribution of Charge in the Electrical</td>
</tr>
<tr>
<td>Temperature Profiles During Combustion of Ammonium Perchlorate.</td>
</tr>
<tr>
<td>— V. K. Bobolev, A. P. Glazkova, A. A. Zenin and O. I. Letjinskii .......... 644</td>
</tr>
<tr>
<td>Quenching of Polaritron and Inhibition of Its Formation In Aqueous</td>
</tr>
<tr>
<td>and Organic Solutions. — V. I. Gol'danski, T. A. Solonenko</td>
</tr>
<tr>
<td>and V. P. Shantarovich .......................................................... 648</td>
</tr>
<tr>
<td>The Physical Meaning of Force Constants and the Construction of the Potential</td>
</tr>
<tr>
<td>Function of Polyatomic Molecules. — L. A. Gribov ................................ 652</td>
</tr>
<tr>
<td>The Theory of the Growth of Thread-Like Crystals at a Cathode. — S. I. Kirchmar</td>
</tr>
<tr>
<td>......................................................................................... 655</td>
</tr>
<tr>
<td>Capillary Equilibrium in a Porous Solid Model with Intersecting Pores of Variable</td>
</tr>
<tr>
<td>Cross Section. — V. S. Markin .................................................. 659</td>
</tr>
<tr>
<td>Intramolecular Rearrangements. — L. S. Mayants ................................ 663</td>
</tr>
<tr>
<td>The Change in the Structure of Certain Glasses During Stabilization (Glass</td>
</tr>
<tr>
<td>Ceramic Formation). — E. S. Sorkin and N. M. Vasil'tev. ...................... 666</td>
</tr>
<tr>
<td>Ionization and Dissociation of Hexafluoropropylene by Electrons of Different</td>
</tr>
<tr>
<td>Energies. — F. N. Cholobov, S. S. Duhov, M. V. Tikhimirov and</td>
</tr>
<tr>
<td>M. L. Dobrovitskii ......................................................................... 670</td>
</tr>
<tr>
<td>Cathodic Processes on Disc Electrodes In Oxide Melts. — V. N. Boronenkov,</td>
</tr>
<tr>
<td>G. A. Edin and P. M. Shurygin ............................................... 672</td>
</tr>
<tr>
<td>A Generalization of the Data on the Viscosities of Saturated Hydrocarbons at</td>
</tr>
<tr>
<td>Various Temperatures and Pressures. — I. F. Golubev and N. A. Agaev. .... 675</td>
</tr>
<tr>
<td>Stability and Behavior In an Electric Field of Nonaqueous Plastic Disperse Systems.</td>
</tr>
<tr>
<td>— Yu. F. Deineka and G. V. Vinogradov .................................... 679</td>
</tr>
<tr>
<td>The Mechanism of the Anodic Activation of Iron. — V. N. Kabanov and</td>
</tr>
<tr>
<td>V. D. Kashcheev ........................................................................ 683</td>
</tr>
<tr>
<td>The Mechanism of the Decomposition of Ammonium Perchlorate. — A. V.</td>
</tr>
<tr>
<td>Raevskii and G. V. Manelli ..................................................... 686</td>
</tr>
<tr>
<td>(Continued)</td>
</tr>
</tbody>
</table>
CONTENTS

The Step Path Followed by Radiation Chemical Reactions Involving Compounds of Aromatic Nature in an Aqueous Medium. — S. A. Safarov .................................................. 689
A Rigorous Method of Calculating the Activation Energy of Electrochemical Reactions. — B. I. Tomilov and L. A. Lushkarev .................................................. 693
The Molecular Mechanism of the Autohesion of Polymers having an Ordered Structure. — B. P. Shashkina, S. S. Voytsikii and V. A. Kargl .......................................... 696
Kinetics of Benzoyl Peroxide Decomposition in Acytylene Hydrocarbons. — I. M. Barkalov, V. I. Gol'danskii and Iio Min'−IIao .................................................. 699
A Study of the Reduction of the MnO4− Anion at a Dropping Mercury Electrode. — B. N. Rybakov and N. V. Nikolaev−Fedorovich .............................................. 708
Mossbauer Spectra of Complex Compounds of Iron with Diacetylthiosemicarbazide. — A. V. Ablov, G. N. Belozerskii, V. I. Gol'danskii, E. F. Makarov, V. A. Trukhtianov and V. V. Khazapov .................................................. 712
Electron Microscope Study of the Structure of Capron and Lavsan Fibers Treated with Phosphotungstic Acid. — E. M. Belavtseva, K. Z. Gumargaliyeva and A. I. Kitaigorodskii .................................................. 715
The Elastic Properties and Crystalization of Glasses. — E. K. Keter and E. L. Kozlovskaya .................................................. 726
"Negative Temperatures" in Reversible Photochemical Reactions. — M. G. Kur's'min .................................................. 731
Change in Mechanism of the Electrochemical Reactions in a Nonprotogenic Medium when a Proton Donor is Added. — É. S. Levin .................................................. 734
Kinetic and Catalytic Currents at a Hanging Drop Electrode. — V. G. Levich, Z. Ch. Grabovskii and V. Yu. Filtovskii .................................................. 738
The General Equation and Electrical Analogy of the Electrolytic Cell with Stationary Spherical Microelectrodes. — R. Sh. Nigmatulla .................................................. 742
The Influence of the Reaction Medium on a Catalyst Under Catalysis Conditions. — A. Ya. Rozovskii .................................................. 749

Available From Consultants Bureau

- 76 -
# CONTENTS

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSS.</td>
<td>RUSS.</td>
</tr>
</tbody>
</table>

## ASTRONOMY

- The Collapse of a Star with Back Pressure Taken into Account, M. A. Podurets. .................. (T) 1 2 300

## CRYSTALLOGRAPHY

- Generation Conditions for a Two-Layer Crystal, V. A. Sotskii and A. M. Goreharunko .................. (T) 7 1 91
- The Sector Structure of β-SIC Crystals, S. N. Gorin and A. A. Pletyushkin ..................... (E) 10 2 333

## CYBERNETICS AND CONTROL THEORY

- Programming in Meaningful Notation, A. L. Brudno. .................. (T) 14 2 279
- Integration with Control of Accuracy, A. S. Kronrod .................. (T) 17 2 283
- A System of Instructions for a Three-Address Computer Without an Address Register, G. M. Adol'son-Bolskii, A. L. Brudno, A. C. Kronrod, and P. T. Roznikovskii .......... (F) 20 3 545

## FLUIDMECHANICS

- Asymptotic Plane Flows in the Central Region of a Laval-Nozzle, Yu. B. Lifshits and O. S. Ryzhny ................. (T) 24 2 290
- A Point Explosion in a Gas, V. P. Korobeinikov and P. I. Chyshkin .................. (T) 28 3 543
- Pressure Pulses in the Area of Secondary Erosion, K. K. Shal'nev and N. P. Rubina ................ (E/T) 31 3 553

## MECHANICS

- Two Particular Solutions of the Problem of Motion of a Body with a Fixed Point, P. V. Kharlamov .................. (T) 35 2 287

## PHYSICS

- Regularly Converging Bright Line Luminescence in Gallium Phosphide Crystals, E. F. Gross and D. S. Nedvetskiik ................. (E/T) 38 1 64
- The Accuracy in Calculating the Moment of Inertia of Nuclei by Means of Forced Rotations, L. N. Mikhailov .......................... (T) 42 1 68
- The Energies of Octupole Collective States with IrK = 1-0 Even-Even Strongly Deformed Nuclei, V. G. Solov'ev, P. Fogel', and A. M. Korneichuk ............... (T/E) 45 1 72

Available From American Institute of Physics

Soviet Physics - Doklady

Vol IX, No 1

- 77 -
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
<th>Issue</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Resonance Induced Scattering and Radiation in a Medium.</td>
<td>V. N. Tsytovich</td>
<td>49</td>
<td>1</td>
<td>76</td>
</tr>
<tr>
<td>The Effect of Pressure on Anharmonicity.</td>
<td>V. N. Zharkov</td>
<td>53</td>
<td>2</td>
<td>302</td>
</tr>
<tr>
<td>Symmetric Flows of Electrically Conducting Fluids in Normal Magnetic Fields.</td>
<td>A. I. Morosev and L. S. Solov'ev</td>
<td>57</td>
<td>2</td>
<td>306</td>
</tr>
<tr>
<td>A Constructive Theory of Compensating Fields.</td>
<td>G. A. Sokolik and N. P. Kapustina</td>
<td>60</td>
<td>2</td>
<td>310</td>
</tr>
<tr>
<td>Lagrangian of a Continuous Medium in the Riemannian Space.</td>
<td>K. P. Stanyukovich</td>
<td>63</td>
<td>2</td>
<td>313</td>
</tr>
<tr>
<td>The Effect of Pressure on the Absorption Spectrum of Benzene in the Near Infrared.</td>
<td>Yu. A. Klyuev</td>
<td>66</td>
<td>2</td>
<td>317</td>
</tr>
<tr>
<td>A Spinor Formula for the Gravitational Field.</td>
<td>G. A. Sokolik</td>
<td>69</td>
<td>3</td>
<td>561</td>
</tr>
<tr>
<td>On the Phenomenon of the Critical Magnetic Field and Anomalous Diffusion in Weakly Ionized Plasma.</td>
<td>A. M. Fridman</td>
<td>73</td>
<td>3</td>
<td>565</td>
</tr>
<tr>
<td>Scattering, Fluorescence, and Transitional Phenomena.</td>
<td>P. P. Shorygin and L. L. Krushinskii</td>
<td>75</td>
<td>3</td>
<td>567</td>
</tr>
<tr>
<td>Relationship Between Porosity, Contact Area, and the Properties of Sintered Materials.</td>
<td>M. Yu. Bal'shin</td>
<td>82</td>
<td>1</td>
<td>80</td>
</tr>
<tr>
<td>Changes in the Magnetic Properties of Ferrites Containing Scandium.</td>
<td>D. E. Bondarev</td>
<td>85</td>
<td>1</td>
<td>85</td>
</tr>
<tr>
<td>New Form of the Relationship Between the Limit Elasticity and Pressure.</td>
<td>L. D. Livshits, Yu. N. Byakhnin, B. I. Berezenko, and E. D. Martyanov</td>
<td>87</td>
<td>1</td>
<td>86</td>
</tr>
<tr>
<td>Range and Probability of Arrest for Dislocations in FCC Crystals.</td>
<td>V. M. Strumis</td>
<td>89</td>
<td>2</td>
<td>321</td>
</tr>
<tr>
<td>Stabilization of High-Strength Vacuum-Deposited Films.</td>
<td>L. S. Shatalov</td>
<td>93</td>
<td>2</td>
<td>575</td>
</tr>
<tr>
<td>Monoclinic Distortion of the Cubic Lattice in the Ageing of Ni-Be and Cu-Be Alloys.</td>
<td>Yu. D. Tyapkin</td>
<td>95</td>
<td>2</td>
<td>578</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics
Soviet Physics - Doklady
Vol IX, No 1
# CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>RUSS. PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solubility of Gallium in Bulk Germanium as Determined from Measurements of the Saturation Currents in p-n Junctions. Ya. A. Ugai and Yu. P. Khukhryanski</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Coalescence of Pores in the Presence of Volume Vacancy Sources. V. V. Slezov and V. R. Shukin</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Low-Temperature Measurements of the Thermal EMF of Highly Doped n-Type Germanium. K. V. Cherkas and V. I. Festicu</td>
<td>11</td>
<td>16</td>
</tr>
<tr>
<td>Anisotropy of the Thermal Conductivity of Cadmium Antimonide. I. M. Pilat and L. I. Andrychuk</td>
<td>18</td>
<td>25</td>
</tr>
<tr>
<td>Excess Vacancy Sites in the Diffusion Zone. Ya. E. Goguzin and V. L. Solunskii</td>
<td>22</td>
<td>29</td>
</tr>
<tr>
<td>Photoactivation and the Photoelectric State of Potassium Bichromate Single Crystals. V. M. Fridkin and S. A. Abdulgamiy</td>
<td>27</td>
<td>35</td>
</tr>
<tr>
<td>Investigation of the Energy Structure of Be and BeO by Ultra-Soft X-Ray Spectroscopy. A. P. Lukirskii and I. A. Bratov</td>
<td>32</td>
<td>43</td>
</tr>
<tr>
<td>Investigation of the Symmetry Properties of Iso-Energy Surfaces in n-Type Germanium by Means of Hall Measurements. P. I. Baranski and P. M. Kurilo</td>
<td>42</td>
<td>54</td>
</tr>
<tr>
<td>Permittivity Dispersion of Barium-Titanate-Type Ferroelectrics. Yu. M. Poplavko</td>
<td>44</td>
<td>58</td>
</tr>
<tr>
<td>Nonlinear Effects in a Solid. A. L. Polyakova</td>
<td>50</td>
<td>65</td>
</tr>
<tr>
<td>Photo-EMF in Polycrystalline Layers of Germanium. P. P. Kononov and K. Lyubita</td>
<td>55</td>
<td>77</td>
</tr>
<tr>
<td>Polarization Reversal Characteristics of Ammonium Hydrogen Sulfate (NH₄)SO₄. B. A. Strukov, K. A. Minachev, and E. N. Rodicheva</td>
<td>59</td>
<td>76</td>
</tr>
<tr>
<td>Injection in Semiconductors with Deep Impurity Levels. V. P. Samokhvalov and V. I. Starcev</td>
<td>63</td>
<td>80</td>
</tr>
<tr>
<td>Spin-Lattice Relaxation of the Er³⁺ Ion in CdF₃, BaF₃, and CaF₃ Single Crystals. G. M. Ezero, and A. L. Smirnov</td>
<td>76</td>
<td>96</td>
</tr>
<tr>
<td>Magnetic and Structural Properties of Lanthanum Orthotellurite in Which Some of the Fe³⁺ Ions are Replaced with Other Trivalent Ions. K. P. Belov, V. I. Kozlova, M. A. Zaitceva, A. M. Kadomtseva, A. A. Katanel'son, and K. Yatskall'jak</td>
<td>80</td>
<td>101</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics

Soviet Physics - Solid State

Vol VI, No 1

- 79 -
Nuclear Polarization by Hot Electrons. L. L. Butushov
Electrical Properties of p-ZnS:A,M_2 Crystals. N. A. Goryunova, P. P. Kesmanov,
D. N. Nasledov, and Yu. V. Rud
Features of the Anisotropy of the Microhardness of Germanium and Silicon.
M. S. Aboza and N. N. Feoktistova
Adsorption and Evaporation of Barium on a Rhenium Single Crystal.
Yu. V. Zubenko
Nernst-Ettingshausen and Faraday Effects in Indium Phosphide.
F. P. Kesamanly, E. E. Klotyn'ch, Yu. V. Mal'tsev, D. N. Nasledov,
and Yu. I. Ukhany
Combination Resonance at Local Centers of Large Radius. E. L. Rashka
and V. I. Shoka
F-Center Theory. V. L. Vinsertskii and Yu. Ya. Kravchenko
Nonlinear Photoconductivity in Germanium. L. I. Kolsenik
and Yu. A. Kontsevoi
Photogalvanomagnetic Effects in Germanium in Strong Magnetic Fields.
E. A. Zavadskii, Yu. T. Kovalshenykh, and L. G. Fakidov
Effect of Temperature on the Oscillation Spectra of Polycrystalline BaTiO_3
and SrTiO_3 in a Wide Spectral Range. V. N. Murzin and A. I. Demeshina
Paramagnetic Relaxation in Systems with Strong Exchange Interactions
at Low Temperatures. E. M. Usanov, A. M. Prokhorov,
and V. B. Fedorov
Damping of Phonons in Solid Solutions. M. A. Ivanov and M. A. Krivoguz
Piezomagnetism in Antiferromagnets and Ferromagnets. A. L. Mitsek
and V. G. Baev
Theory of the High-Frequency Susceptibility of Uniaxial Ferromagnets.
S. V. Peletminskii and V. G. Bar'yakhtar
Elastic Field of Continuously Distributed Moving Dislocation Loops.
A. M. Kosykhov and V. D. Nataik
Investigation of the Secondary Electron Emission of Positively Charged
Dielectric Layers. S. A. Fridrikhov, V. N. Ivanov, L. A. Serebrov,
and A. A. Shevtsovy
Effect of Defects in Magnesium Ferrite-Aluminate Crystals on Ferromagnetic
Resonance. E. K. Yur'eva and O. N. Trubitsyna
Spectral Distribution Anomalous Photoconductivity in Amorphous Selenium.
M. I. Korsunskii and N. S. Pastushuk
Electrical Properties of Rare-Earth Monoalohgenides (Cerium Subgroup).
V. P. Zhuba, A. V. Golubkov, E. V. Goncharova, and V. M. Sergeeva
Electrical Properties of SmS. V. P. Zhuba, A. V. Golubkov,
E. V. Goncharova, T. I. Komareva, and V. M. Sergeeva
Measurement of the Minority Carrier Lifetime and Diffusion Coefficient
in IndB by the Moving-Light-Spot Method. L. A. Basov
Electron Microscope Investigation of Dislocation Structure in a Cobalt-Iron
Alloy Containing 5% Fe. Ya. D. Vlas'evskii and V. G. Kuryumov
Nature of the Dependence of the Work Function of Barium Oxide-Metal
Systems on the Surface Coverage. T. S. Kir'yanova and A. R. Shul'man
Field Dependence of the Magnetic Susceptibility of Yttrium Ferrite-Garnet
in Saturation Fields. N. Z. Mirkasov
Available From American Institute of Physics
Soviet Physics - Solid State
Vol VI, No 1
### CONTENTS (Contd)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>Russian Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Induced Magnetic Anisotropy of Ni-Zn-Cr Ferrite Containing CoO.</td>
<td>235</td>
<td>294</td>
</tr>
<tr>
<td>by N. Z. Miryayov and L. M. Puzel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnetic Spectra of Polycrystalline Garnets of Yttrium-Aluminum</td>
<td>238</td>
<td>297</td>
</tr>
<tr>
<td>and Yttrium-Gadolinium Ferrites.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by D. M. Lbed' and S. G. Abersenkov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal Diffusion of FeO₂ on the Surface of Porcelain.</td>
<td>241</td>
<td>301</td>
</tr>
<tr>
<td>by N. S. Kostyukov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BRIEF COMMUNICATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On the Theory of the Probe Method of Electrical Conductivity</td>
<td>244</td>
<td>304</td>
</tr>
<tr>
<td>Measurement in Semiconductors.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by V. L. Kon'kov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigation of the Strength of Needle-Like Tungsten Crystals.</td>
<td>246</td>
<td>307</td>
</tr>
<tr>
<td>by L. N. Aleksandrov and A. N. Kogan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Measurement of the Hall Constant in Semiconductor Films by the Probe</td>
<td>247</td>
<td>308</td>
</tr>
<tr>
<td>Method.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by V. L. Kon'kov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influence of Oxide Films on the Electrical Properties of Silicon.</td>
<td>250</td>
<td>311</td>
</tr>
<tr>
<td>by V. A. Arslambekov and G. V. Smirnov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Influence of Pressure on the Forbidden Band Width of Lead Sulfide.</td>
<td>252</td>
<td>313</td>
</tr>
<tr>
<td>by Ya. A. Semenov and A. Yu. Shilinskaya</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature Factor in X-Ray Scattering in the Case of the Anomalous</td>
<td>253</td>
<td>315</td>
</tr>
<tr>
<td>Thermal Expansion of Small Aluminum Crystals.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by Yu. I. Petrov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Curie Temperature of the Ferroelectric LiTaO₃.</td>
<td>254</td>
<td>316</td>
</tr>
<tr>
<td>by D. S. Razbirin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edge Luminescence of Crystals.</td>
<td>255</td>
<td>317</td>
</tr>
<tr>
<td>by D. S. Razbirin</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investigation of Microstresses in Polycrystalline Metals.</td>
<td>258</td>
<td>320</td>
</tr>
<tr>
<td>by V. P. Rutberg, M. P. Usikov, and L. M. Utevskii</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electron Paramagnetic Resonance in Nonstoichiometric Barium Titanate.</td>
<td>260</td>
<td>322</td>
</tr>
<tr>
<td>by Yu. L. Danylyuk and E. V. Kharitonov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect of Deformations on the Optical Spectrum of Wurtzite-Type</td>
<td>261</td>
<td>324</td>
</tr>
<tr>
<td>Crystals.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by G. E. Pikou</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Possible Type of Voltampere Characteristic in a Semiconductor</td>
<td>263</td>
<td>326</td>
</tr>
<tr>
<td>- Dielectric-Semiconductor (Cr Metal) System.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by V. B. Sondemirskii</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diffusion and Solubility of Gold in Gallium Arsenide.</td>
<td>265</td>
<td>328</td>
</tr>
<tr>
<td>by V. I. Sokolov and F. S. Shublyanu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orientation Dependence of the Formation of Radiation Defects in n-Type</td>
<td>266</td>
<td>329</td>
</tr>
<tr>
<td>Silicon.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>by I. V. Kryukova and V. S. Vavilov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phenomenon of Impulse Ionization of a Deep Zinc Level in p-Type Silicon</td>
<td>268</td>
<td>331</td>
</tr>
<tr>
<td>by B. V. Kornilov</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Effect of Impurities on the Thermal Expansion of Silicon.</td>
<td>269</td>
<td>333</td>
</tr>
<tr>
<td>by S. I. Novikova</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Available From American Institute of Physics

Soviet Physics - Solid State

Vol VI, No 1
(INZHENERNYY ZHURNAL)  
ENGINEERING JOURNAL  
No. 2, 1963  
- USSR -  

Following is the translation of the Russian-language publication Inzhenerny Zhurnal (Engineering Journal), Editor-in-Chief A. A. Nikol'skiy, published by the Academy of Sciences USSR, Moscow, Vol III, No 2, 1963, pages 202-416. Additional bibliographic information accompanies each article.

**TABLE OF CONTENTS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Transition of a Space Vehicle, Braked in the Atmosphere of a Planet, into this Orbit of an Artificial Satellite</td>
<td>1</td>
</tr>
<tr>
<td>On the Configuration of Forward Separation Zones during Symmetrical Flow Around Bodies with Supersonic Gas Flow</td>
<td>6</td>
</tr>
<tr>
<td>Determining the Aerodynamic Forces Affecting a Body with Forward Separation Zones at Hypersonic Flow Velocities</td>
<td>20</td>
</tr>
<tr>
<td>On Calculation of Supersonic Flow of Gas over a Thin Plate with a Detached Shock Wave</td>
<td>31</td>
</tr>
<tr>
<td>Application of Dorodnitsin's Reduction Method for Calculation of Boundary Layer of an Axisymmetric Figure Rotating within an Axial Flow of Compressible Gas</td>
<td>40</td>
</tr>
<tr>
<td>Large Amplitude Oscillations of Gas within an Enclosed Duct</td>
<td>54</td>
</tr>
<tr>
<td>Nonlinear Acoustic Oscillations of Gas Column within an Enclosed Duct</td>
<td>70</td>
</tr>
</tbody>
</table>

Available From JPRS 26019 (Continued)
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Longitudinal Wave Propagation in Elastic Porous Media Saturated with Liquid</td>
<td>79</td>
</tr>
<tr>
<td>Flow Past Special Hydrodynamic Features Situated over a Boundary of Two Fluids of Different Density</td>
<td>97</td>
</tr>
<tr>
<td>A Direct Problem Structure of Turbulent Compressible Fluid Flow in Gas Turbines</td>
<td>114</td>
</tr>
<tr>
<td>Suppression Limits of Deflagration Using Granular and Porous Materials</td>
<td>131</td>
</tr>
<tr>
<td>Limiting Equilibrium of a Loose Medium with Variable Weight</td>
<td>166</td>
</tr>
<tr>
<td>Stable Shape of a Loose Medium Near a Rigid Die</td>
<td>168</td>
</tr>
<tr>
<td>Methods of Investigating Elastic Plate Vibrations</td>
<td>190</td>
</tr>
<tr>
<td>Axially Symmetric Oscillations of Cylindrical Shells in Supersonic Flow of Gas</td>
<td>209</td>
</tr>
<tr>
<td>Contact Problem of Toroidal Shell and Annular Plate Coupling</td>
<td>221</td>
</tr>
<tr>
<td>On Some Unconstrained Twist Problem</td>
<td>235</td>
</tr>
<tr>
<td>On Static Stress Calculation of Gear Wheel Teeth</td>
<td>258</td>
</tr>
<tr>
<td>Theorem of Reversibility with Stabilized Motion of Annular Wing and Body</td>
<td>271</td>
</tr>
<tr>
<td>On Plate Pressure Beyond the Wedge in Supersonic Flow</td>
<td>287</td>
</tr>
<tr>
<td>On Temperature Field Induced by Heat Energy Released by Widening of Tangential Break</td>
<td>296</td>
</tr>
<tr>
<td>Self-Modeling Motions of an Ideal, Perfect and Heat-Conductive Gas</td>
<td>300</td>
</tr>
<tr>
<td>Investigation of Strong Shock Waves within an Electromagnetic Shock Tube</td>
<td>312</td>
</tr>
<tr>
<td>Copper Heater Calculations</td>
<td>318</td>
</tr>
<tr>
<td>Available From JPRS 26019</td>
<td></td>
</tr>
</tbody>
</table>

(Continued)
**TABLE OF CONTENTS (continued)**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Permeability of Anisotropic Fissured Rock</td>
<td>328</td>
</tr>
<tr>
<td>Temperature Field of Cyclically Deformed Elasto-Plastic Medium</td>
<td>339</td>
</tr>
<tr>
<td>A Composite Problem of Theory of Elasticity for a Layer</td>
<td>348</td>
</tr>
<tr>
<td>Stresses and Deformations of a Plate Mounted on a Deformed Foundation</td>
<td>354</td>
</tr>
<tr>
<td>Bending of a Plate on a Combined Base</td>
<td>364</td>
</tr>
<tr>
<td>Pressure Field During Diffraction About a Truncated Wedge Zone and a Half-Infinite Strip</td>
<td>374</td>
</tr>
<tr>
<td>Creep of Non-Ferrous Metals at Room Temperature Beyond Elastic Limits</td>
<td>383</td>
</tr>
<tr>
<td>Creep and Durable Strength Under Combined Tensile and Torsional Stress</td>
<td>391</td>
</tr>
</tbody>
</table>

Available From JPRS 26019
Table of Contents
Transactions of the Second Conference on the Physics of Electronic and Atomic Collisions

Second All-Union Conference on the Physics of Electronic and Atomic Collisions - L. A. Sena
Probability of charge exchange in atomic collisions under conditions of random resonance - E. E. Nikitin
Charge exchange of alkali and alkaline earth atoms and ions - D. V. Chkuaseli, A. I. Gudsmashvili & U. D. Nikolsahvili
Concerning calculation of off-resonance charge exchange and ionization of atoms in collisions with slow ions - V. I. Rydnik & B. M. Yavorskii
Loss of electrons by fast Ca, Mg, Si and Fe atoms in encounters with N_2 and O_2 molecules - A. M. Bukhtiev & Yu. F. Bydin
Asymptotic behavior of the wave function of a system of neutral and charged particles - R. K. Peterkop
Empirical formulas for excitation and ionization cross sections - I. Bel'gman & L. Vainshtein
Introduction of a polarization potential into the radial equations of atomic collision theory - L. Vainshtein
Use of a general method for constructing trial wave functions - V. D. Kamenetskii & V. T. Murav'ev
Trial function calculations of the collision of slow electrons with hydrogen atoms - V. T. Murav'ev
Excitation functions of some alkali metal atoms - I. P. Zapesochnyi & L. L. Shimon
New data on the excitation functions of inert gases - I. P. Zapesochnyi & P. V. Feil'tsan
Fine structure of the optical excitation functions of Zn, Cd and Hg atoms - I. P. Zapesochnyi & V. S. Shevera
Investigation of the bands of carbon dioxide excited by electron impact - S. N. Kishko & V. V. Skubenich
Determination of the excitation cross sections for the resonance lines of potassium - L. M. Volkova & A. M. Devyatov
Concerning the possibility of measuring optical excitation functions by means of modulated electron beams - I. P. Bogdanova & I. I. Giletsi
Procedure for measuring the ionization cross sections and ionization coefficients of metal atoms - A. P. Lyubimov, S. I. Pavlov & V. I. Rakhtuvskii & N. G. Zaitseva
Evaluation of the absolute cross sections for collisions of the second kind in a mixture of sodium and mercury vapors - S. E. Frish & O. P. Bochkova
Spin exchange - K. B. Aleksandrov, A. M. Bonch-Bruevich & V. A. Khodovoi
Variation of the average charge of fast ions as a function of the density of the medium - V. S. Nikoilev, I. S. Dmitriev, Ya. A. Teplova & L. N. Fateeva

Available From Columbia Technical Translations (Continued)
CONTENTS (Contd)

Regarding the possibility of obtaining multiply charged ions in a cyclotron by proton impact - I.S.Dmitriev 1081 1052

Mass-spectrometric investigation of photoionization of molecules and dissociation of excited molecular ions - M.E.Akopyan, F.I. Vilesov & A.N.Teremin 1083 1054

Energy spectra of electrons detached in photoionization of molecules - F.I.Vilesov & B.L.Kurbatov 1088 1059

Excitation of free radicals incident to dissociation of polyatomic molecules by UV photons - N.Ya.Dodonova & A.N.Teremin 1094 1064

Step excitation and ionization of nitrogen - I.I.Gromova & A.V. Yakovleva 1097 1067

Dissociation of polyatomic ions in collisions with gas atoms and molecules - S.E.Kupriyanov & A.A.Perov 1102 1072

Probability for impact excitation of vibrations of diatomic molecules - N.A.Generaev & S.A.Losev 1110 1079


Calculation of the probabilities for impact excitation of vibrational levels of molecules by the method of non-stationary theory - A.I.Osipov 134* 1087

Detection of neutral atoms with energies from 50 to 500 eV - A.I.Akishin, S.B.Vasil'ev, A.P.Tulinov & L.I.Tseplyaev 138* 1091

Influence of individual elementary processes on the characteristics of high-voltage discharges - L.G.Guseva 141* 1093

Available From Columbia Technical Translations

* These original page numbers pertain to the Vol.28, No.1 issue of the Bulletin.
Izvestiya VUZov: Instrument Building
- USSR -
No 2, 1964

Following is a translation of the Russian-language journal
Izvestiya Uchobnykh Zavedeniy: Priborostrойныя (News of Higher
Education Institutions: Instrument Building), Vol VII,
No 2, 1964, Leningrad, pp 3-176.

Table of Contents

<table>
<thead>
<tr>
<th>Author</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bukhonets, B.N.</td>
<td>On Calculating the Scale of an RC-Generator</td>
<td>1</td>
</tr>
<tr>
<td>Kochinov, Yu.G.</td>
<td>A Stable Transistor Tube RC-Generator</td>
<td>9</td>
</tr>
<tr>
<td>Novikov, V.V.</td>
<td>Investigation of the Inertness and Sensitivity of a Drift Photodiode</td>
<td>16</td>
</tr>
<tr>
<td>Martchyan, A.S.</td>
<td>Calibration and Control of Amplitude Voltage Analyzers</td>
<td>24</td>
</tr>
<tr>
<td>Grigorovskiy, B.K.</td>
<td>A Photoelectric Compensator</td>
<td>27</td>
</tr>
<tr>
<td>Kislov, Yu.A.</td>
<td>On the Threshold Sensitivity of a Galvanometric Amplifier with a Mutual Inductivity Converter</td>
<td>37</td>
</tr>
<tr>
<td>Kol'tsov, A.A. and Karabanov, D.N.</td>
<td>On the Calculation of Measuring Circuits of Electronic Automatic Balanced Bridges</td>
<td>46</td>
</tr>
<tr>
<td>Ulyanov, O.I.</td>
<td>On the Problem of Calculating a Ferrodynamic Galvanometer</td>
<td>55</td>
</tr>
<tr>
<td>Kushnir, V.F. and Solopchenko, G.N.</td>
<td>On the Application of a Single-Circuit Parametric Generator in a Nuclear Magnetic Resonance Apparatus</td>
<td>64</td>
</tr>
</tbody>
</table>

Available From JPRS 26079 (Continued)
Table of Contents (Contd)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bessonov, A.A. and Sivakov, V.A. A Device for Automatic Indication of Operating Failures of Discrete Systems</td>
<td>70</td>
</tr>
<tr>
<td>Balashov, Ye.P. On Possible Methods of Constructing Storage Adders Acting in Sequence From Ferrite Cores</td>
<td>79</td>
</tr>
<tr>
<td>Korovitskiy, S.L. and Pasyntkov, V.V. Modeling of Exponential and Logarithmic Functions by Means of Non-Linear Semiconductor Resistors</td>
<td>94</td>
</tr>
<tr>
<td>Gitis, E.I. and Pronin, Ye.O. Generalized Characteristics of a Multi-Channel Semiconductor Voltage-to-Code Converter with Digit-by-Digit Coding</td>
<td>101</td>
</tr>
<tr>
<td>Ismailov, Sh.Yu.; Smolyarov, A.M. and Dondik, Ye.M. Automatic Instruments and Devices with Step-by-Step Control Motors</td>
<td>111</td>
</tr>
<tr>
<td>Zlatkin, V.I. On the Calculation of a Selective Amplifier with a Double T-Shaped Bridge in a Feedback Circuit</td>
<td>120</td>
</tr>
<tr>
<td>Butomin, N.V. An Astatic Gyroscope with Dry Friction in the Axes of a Gimbal Installed in a Fixed Position on the Earth</td>
<td>123</td>
</tr>
<tr>
<td>Bogdanovich, M.M. On the Theory of a Single-Rotor Gyrocompass with Electromagnetic Correction</td>
<td>133</td>
</tr>
<tr>
<td>Gulov, N.V. On the Natural Damping of the Nutational Oscillations of a Free Gyroscope</td>
<td>143</td>
</tr>
<tr>
<td>Serov, M.A. A Gyrocompass with an Elastic Torsional Support</td>
<td>154</td>
</tr>
<tr>
<td>Akhmed'rod, Z.H. An Investigation of a Small Electric Clock with an Indirect-Action Electric Drive</td>
<td>165</td>
</tr>
<tr>
<td>Kosov, V.I. and Solov'yov, A. I. A Parallelogram Instrument for Active Control</td>
<td>176</td>
</tr>
<tr>
<td>Poparev, G. V. A System of Three Flat Mirrors</td>
<td>181</td>
</tr>
</tbody>
</table>

Available From JPRS 26079 (Continued)
# Table of Contents (Contd)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shimanskiy, Yu.K.; Vasmova, L.K.; Kirpichnikov, V.M.; and Syromyatnikov, N.I. A Device for High-Speed Recording of Small Temperature Drops</td>
<td>192</td>
</tr>
<tr>
<td>Liburkin, L.Ya. Basic Problems in the Geometry of an Orthogonal Non-Hypoelliptical Cylindrical Transmission</td>
<td>197</td>
</tr>
<tr>
<td>Sivokonkii, I.M. and Yatsinskiy, K.N. An Investigation of Certain Types of Supports for the Suspensions of Gyroscopic Instruments</td>
<td>205</td>
</tr>
<tr>
<td>Sobolov, V. All-Union Conference on Automatic Control and Methods of Electrical Measurements</td>
<td>214</td>
</tr>
<tr>
<td>Editorial Colloquium Seventieth Birthday of Sergey Ilarionovich Zilitinkevich</td>
<td>217</td>
</tr>
</tbody>
</table>

Available From JPRS 26079
## CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
<th>Russian Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sources of Exchangeable Aluminum in Soils as the Cause of Their Exchangeable Acidity</td>
<td>N. I. Belyaeva and I. N. Antipov-Karatsev</td>
<td>636</td>
<td>639</td>
</tr>
<tr>
<td>Flow of Viscoelastic Disperse Systems in the Gap between Two Coaxial Tubes</td>
<td>M. P. Volarovich and A. M. Gurkin</td>
<td>639</td>
<td>642</td>
</tr>
<tr>
<td>Study of the Viscosity of Molten Capronel</td>
<td>I. A. Dumanski, L. V. Khaltenco, and L. V. Prokopenko</td>
<td>642</td>
<td>646</td>
</tr>
<tr>
<td>Certain Regularities in Film Formation from Aqueous Polymer Solutions</td>
<td>V. I. Eliseeva and A. V. Chubareva</td>
<td>645</td>
<td>649</td>
</tr>
<tr>
<td>Sorption Isotherms and Heats of Wetting of Polyhexamethyleneadipamide</td>
<td>E. P. Nezvach, Z. A. Samchenko, and A. V. Dumanski</td>
<td>653</td>
<td>656</td>
</tr>
<tr>
<td>Electron Microscope Investigation of the Structural Changes in Greases during Oxidation</td>
<td>V. V. Sinitsyn and R. N. Kartinin</td>
<td>662</td>
<td>665</td>
</tr>
<tr>
<td>The Sorption of Certain Weak Electrolytes and Nonelectrolytes on Ion Exchange Resins</td>
<td>D. R. Skorokhod and M. L. Tabulo</td>
<td>666</td>
<td>669</td>
</tr>
<tr>
<td>Gelatinization of Latexes in the Presence of Polyvinylmethylester</td>
<td>D. M. Sandomirskii, I. D. Pil'menbein, and M. L. Lebedinakaya</td>
<td>670</td>
<td>673</td>
</tr>
<tr>
<td>Thermal Relaxation of Stress in Vulcanizates of Various Structures</td>
<td>Z. N. Tarasova and B. A. Dogadkin</td>
<td>683</td>
<td>686</td>
</tr>
</tbody>
</table>

Available From Consultants Bureau

(Continued)
CONTENTS (continued)

Relaxation Development of Stress in Aluminum Naphthenate Gel by the Compensation Method — A. A. Trapeznikov and T. G. Shalopalkina ........................................ 599 703
Formation and Significance of Foil-Like Particles in Spray Drying — Miroslav Toman ........................................................................................................ 604 710
Structuration of Solutions of Polycrylonitrile Hydrolysis Products — B. S. Khamrsev, E. A. Aripov, and K. S. Akhmedov .......................................................... 600 716
Effect of Structuration Processes on Filtration of Water in Disperse Systems — N. V. Churin ........................................................................................................ 603 718
Deformation, Thixotropy and Aging of Aluminum Naphthenate Gels — T. G. Shalopalkina and A. A. Trapeznikov ................................................................. 606 722
Effect of Metal Ions and Organic Acid Anions on Mechanical Properties of Agaroid Gels — I. G. Shubtsova, R. V. Kudashova, and S. A. Glikman ........................................ 610 728
Laboratory Setup for Measuring the Particle Concentration and Dispersion Composition of Hydrogels and Oleoels — N. M. Kudryanets and B. V. Deryagin .............. 618 739

DISCUSSION

The Adsorption Equations of Gibbs and Thomson — A. I. Rusanov ........................................ 620 742
Ivan Pavlovich Serdobol'skii .................................................................................................. 625 747

Author Index, Volume 25, 1963 .............................................................................................. 629

Tables of Contents, Volume 25, 1963 ...................................................................................... 631
# Soviet Physics

## CRYSTALLOGRAPHY

A Translation of the Journal "Kristallografiya"
(Russian Original Vol. 9, No. 1, pp. 3-132, January-February, 1964)

Vol. 9, No. 1, pp. 1-116

### CONTENTS

<table>
<thead>
<tr>
<th>Russian</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vol. 9, No. 1, pp. 1-116</td>
<td>July-August, 1964</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Russian</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinovil Grigor'evich Pinaker (On His Sixtieth Birthday)</td>
<td>1 3</td>
</tr>
<tr>
<td>Coupling Matrices for Structure Factors. B. K. Vainshtein</td>
<td>5 7</td>
</tr>
<tr>
<td>Effects of Thermal Motion on the Potential Distribution for an Atom. V. F. Dvoryankin</td>
<td>13 20</td>
</tr>
<tr>
<td>Effects of Thermal Motion on the Potential Distribution for the Hydrogen Atom. V. F. Dvoryankin and V. N. Kolomilchuk</td>
<td>17 20</td>
</tr>
<tr>
<td>A Crystallographic Study of Gramicidin S Isomorphous. G. N. Tishchenko</td>
<td>28 37</td>
</tr>
<tr>
<td>An Electron-Diffraction Study of the Structure of Potassium Dichromate. I. A. Zhukova and Z. G. Pinaker</td>
<td>31 44</td>
</tr>
<tr>
<td>An Electron-Diffraction Determination of the Positions of Hydrogen Atoms in NH3Br. V. N. Kolomilchuk and V. F. Dvoryankin</td>
<td>35 50</td>
</tr>
<tr>
<td>Electron Diffraction Investigation of Superstructure III of PbBi4Te7 Alloy. A. G. Telybov</td>
<td>41 57</td>
</tr>
<tr>
<td>A Study of the Photoconductivity and the Photoelectric State in Monocrystals of Potassium Dichromate. S. A. Abdiganilov and V. M. Fridkin</td>
<td>47 63</td>
</tr>
<tr>
<td>The Influence of Li, Na, Ge, Al Impurities on the Twinning of Artificial Quartz. E. V. Taizhimer</td>
<td>52 69</td>
</tr>
<tr>
<td>Theory of Stress and Dislocation Formation in the Growth of Crystals. V. L. Indenbom</td>
<td>57 74</td>
</tr>
<tr>
<td>On a Method of Obtaining Single Crystal (Epitaxial) Films of Semiconductors. S. A. Somiltoy</td>
<td>65 84</td>
</tr>
<tr>
<td>Formation and Structure of 90° Twins of Silicon Single Crystals Grown by the Czochralski Method. B. M. Turovskii and L. V. Laimer</td>
<td>71 92</td>
</tr>
</tbody>
</table>

**BRIEF COMMUNICATIONS**

<table>
<thead>
<tr>
<th>Russian</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Lattice Metric of CaZrTi2O7 Crystals. Yu. A. Pystantku and Z. V. Pudovkin</td>
<td>78 98</td>
</tr>
<tr>
<td>Crystal Structure of the Compound HfCr12. S. P. Alisova, P. B. Bedberg, and K. L. Shakhova</td>
<td>78 100</td>
</tr>
<tr>
<td>X-Ray Goniometric Study of Phenakite. V. P. Golovachev</td>
<td>80 101</td>
</tr>
<tr>
<td>The Crystal Structure of Polytrifluorochloroethylene. E. L. Galperin</td>
<td>81 102</td>
</tr>
<tr>
<td>Study of the Copper-Tellurium System in Thin Films. R. V. Pasev and Z. G. Pinaker</td>
<td>83 104</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics

Soviet Physics - Crystallography

Vol IX, No 1
CONTENTS (Cont'd)
## CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>Russian Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Study of Act. longisporouber Pigments, V. N. Shaposhnikov and E. P. Fecilova</td>
<td>635</td>
<td>745</td>
</tr>
<tr>
<td>On the Relation Between the Structure of Tetracycline Antibiotics and Their Biological Activity and Mechanism of Action, V. E. Plakunov</td>
<td>645</td>
<td>755</td>
</tr>
<tr>
<td>On Actinomycetes That Produce an Antifungal Antibiotic of the Hexane Type, P. N. Golyakov, V. A. Tsyagunov, and V. M. Morozov</td>
<td>652</td>
<td>763</td>
</tr>
<tr>
<td>Antagonistic Properties of Bacterioides, O. P. Niskovikaya and N. M. Milova</td>
<td>658</td>
<td>771</td>
</tr>
<tr>
<td>Vitamin Nutrition of Yeasts of the Torulopsis Genus, L. P. Volkova</td>
<td>664</td>
<td>778</td>
</tr>
<tr>
<td>Dehydrogenase Activity of Thermotolerant Saccharomyces cerevisiae Yeasts at Different pl Values of the Medium, E. P. Gushkova and L. G. Logina</td>
<td>668</td>
<td>783</td>
</tr>
<tr>
<td>A Tentative Mechanism of Acquired Resistance to Chloramphenicol in Escherichia coli, A. I. Koval'yev</td>
<td>670</td>
<td>785</td>
</tr>
<tr>
<td>Formation of Aspartic Acid from Fumarate in Cultures of Pseudomonas and E. coli, R. K. Ozolin</td>
<td>675</td>
<td>792</td>
</tr>
<tr>
<td>Changes in the Biochemical and Serological Properties of Escherichia coli on Cultivation in Bile-Erythrocyte Media, A. N. Koval'evskaya and Yu. S. Varensko</td>
<td>679</td>
<td>797</td>
</tr>
<tr>
<td>Submicroscopic Structure of M- and L-Form of Bacteria, M. A. Pethiev and I. A. Motuzov</td>
<td>680</td>
<td>799</td>
</tr>
<tr>
<td>Nuclear and Mitochondrial Changes During Bacterial Development (From Fluorescent Microscopy Data), M. N. Malatyan</td>
<td>687</td>
<td>806</td>
</tr>
<tr>
<td>A Comparative Study of Some Bacteriophage of the F. cepeiae-thuilingensis Group, L. S. Khusnaturyan and Ya. I. Rauteshein</td>
<td>692</td>
<td>813</td>
</tr>
<tr>
<td>Excess of Free Tail Particles in the Suspension of B. myciroides Phage No. 1, S. B. Stefanov and E. I. Sviridova</td>
<td>697</td>
<td>819</td>
</tr>
<tr>
<td>Occurrence of Actinomycetes in Some Armenian Soil, V. D. Kuznetsov</td>
<td>704</td>
<td>827</td>
</tr>
<tr>
<td>Effectiveness of Azotobacter in Vineyard Soils, G. I. Moushavili, K. V. Topuridze, and N. G. Kirtiakhov</td>
<td>711</td>
<td>833</td>
</tr>
<tr>
<td>Vertical Distribution of Phosphorus-Mobilizing Bacteria in the Grounds of Latvian Reservoirs, D. Z. Gal</td>
<td>713</td>
<td>838</td>
</tr>
<tr>
<td>Carbon Dioxide Assimilation by Heterotrophic Bacteria and Its Significance in the Assay of Chemosynthesis in Reservoirs, T. V. Zharova</td>
<td>717</td>
<td>843</td>
</tr>
<tr>
<td>Adaptation of Mud Microflora to an Artificial Increase in Cobalt Content in Their Natural Habitat, V. I. Koval'skii and S. V. Lantova</td>
<td>723</td>
<td>850</td>
</tr>
<tr>
<td>Respiration and Biomass Production of Food Yeasts Utilizing Various Carbon Sources, A. P. Kryuchkova and G. I. Vovchav</td>
<td>728</td>
<td>858</td>
</tr>
<tr>
<td>The Utilization of Various Sugars by Food Yeast Cultures, T. N. Semushina, L. K. Shakhovskaya, and N. I. Monakhova</td>
<td>733</td>
<td>863</td>
</tr>
<tr>
<td>Submerged Cultivation of Acetobacter aceti in a Synthetic Medium, A. G. Ali</td>
<td>738</td>
<td>869</td>
</tr>
</tbody>
</table>

Available From Consultants Bureau

(Continued)
On the Mechanism of Microbial Cell Fixation by Formaldehyde, B. V. Karal’nik

Reproduction of Septicemia in Caterpillars of Siberian Pine Moth (Dendrolimus sibiricus Tsch.), By Spores of Bacillus dendrolimus Talalov Deprived of Parasporal Inclusions, S. N. Tymontsev

A Contribution to the Technique of Vitamin B12 Assay with Escherichia coli 113-3 by the Diffusion Method, L. I. Lisenkova and I. V. Konova

Biological Value of Waste from the Production of Aminopeptide-2, T. I. Golubev

Polarographic Estimation of Oxygen in the Culture Fluid of Microorganisms, L. A. Samokhvalov and M. S. Shul’man

Collections of Type Cultures of Microorganisms in England, V. I. Kudryavtsev

DISCUSSION

Bacterial Fertilizers and Their Effectiveness, E. N. Mishustin

BOOK REVIEWS

S. A. Waksman, The Actinomycetes, L. V. Kalasutskii

M. Yanovskaya, Robert Koch, A. I. Matetski

CHRONICLE

Academician Traian Săvulescu, M. Golenko

Available From Consultants Bureau
Available From Optical Society of America

CONTENTS

MAY 1964

Some Studies of the Spectroscopic Characteristics of the Plasmotron .......................................................... M. S. Frish and G. P. Starisev 396 (724)
Calculation of Franck-Condon Factors for the NO, C, and CO Band Systems .................................................. F. S. Ortenberg 398 (729)
The Form of the Raman Tensor .................................................. L. N. Ovander 401 (732)
Force Constants of Fluorinated Ethylene Molecules .......................................................... M. Rydel 402 (739)
On the Nature of the High Specificity of the CH Bending Vibrations of Saturated Hydrocarbons .......................................................... L. S. Mayants and E. G. Galpern 405 (744)
Inclusion of the Dependency of Coordinates in the Theory of Molecular Vibrations, and Associated Questions .......................................................... L. S. Mayants 410 (753)
The Vibrational Spectra of Aromatic Compounds. XIX. Calculation and Interpretation of the Vibrational Spectra of Naphthalene and Some Deuterioanphilenes .......................................................... E. P. Krainov 415 (763)
Methods for Measuring the Integrated Intensity of Infrared Bands with Double-Beam Spectrophotometers .......................................................... A. V. logansen 442 (813)
Universal Intermolecular Interactions and Their Effect on the Position of the Electronic Spectra of Molecules in Two-Component Solutions. VII. Theory (General Case of an Isotropic Solution) .......................................................... N. G. Bakhashiev 446 (821)
Temperature Dependence of the Structural Absorption and Fluorescence Spectra of the Solutions of Aromatic Compounds .......................................................... V. P. Klochkov and S. M. Korotkov 452 (933)
Kinetics of the Intracenter Luminescence in the KCl-Tl Crystal Phosphor .......................................................... M. F. Tinkler 464 (954)
Kinetics of the Luminescence of a ZnS-Ti Crystal Phosphor under Spark Excitation .......................................................... T. P. Belikova 468 (882)

Available From Optical Society of America (Continued)
CONTENTS (Cont'd)

In Investigation of the Character of the Brownian Turning Motion of Molecules in Liquids

K. A. Valiev and A. Sh. Agishev

477 (881)

Measurement of the Dispersion of the Phase Shift Due to Reflection of Light from Metals

I. N. Shklyarevskii and N. A. Nosulenko

481 (888)

Achromatic Wave Plates

S. D. Ioffe and T. A. Smirnova

484 (994)

SHORT COMMUNICATIONS

Effect of the Rate of Pressure Change on the Luminescence of Zinc Sulfide Powder

L. Sodomka

486 (898)

A Filter for Optical Pumping in Cesium

M. P. Chaika and N. N. Yakobson

487 (899)

Low-Frequency Vibrations in the Spectra of Methyl-Substituted Pentanes

U. A. Zirnit and M. M. Sushchinskii

489 (902)

Low-Frequency Vibrations in the Raman Spectra of Fatty Acids

U. A. Zirnit and M. M. Sushchinskii

490 (913)

On the Use of Opal Glass as a Reflection Standard

N. A. Voivanillo and M. N. Smolkin

491 (905)

Applicability of the Zero-Order Approximation of Force Constants to the Determination of a Potential Function

K. M. Grushetskii

493 (907)

Determination of the Torsional Vibration Frequency of Trifluoroethare from the Microwave Spectrum

I. A. Mukhtarov

494 (910)

On the Emission Spectrum of a CaF2:Sm3+ Laser

Yu. A. Ananov, N. M. Galaktionova, A. A. Mak, and B. M. Sedov

495 (911)

On the Synthesis of Dielectric Multilayer Coatings

P. G. Kard

497 (914)

Available From Optical Society of America
CONTENTS

Mechanism of Extraction of U(VI) with Tridecylamine Fluoride Solutions
   - V. M. Vdovenko, A. A. Lipovskil, and S. A. Nikitina ......................... 653 625

Inorganic Method of Determining Solvation Numbers in Extraction - E. V. Komarov ........................................... 660 633

Effect of Structural Factors on the Thermodynamic Characteristics of the Extraction of Basic Dye Salts. II. Extraction with Benzy1 Alcohol - K. S. Krasnov
   and F. D. Kashtina ................................................................................... 585 618

Adsorption of Pu(IV) on Glass and Quartz - A. G. Samartseva .............................................................. 572 647

Complex Formation by Americium with the Dilauroyl Ester of Methylphosphonic Acid
   (DAMP) - V.I. Zemlyanukhin, G. P. Savoshina, and M. F. Pushilcnkov ................................................ 579 655

Reaction Processes and Products of High-Molecular Compounds with Inorganic Salts. I.
   Formation of Complexes of Polycarboxylic Acid with Uranium Nitrate - I. V. Anderreva,
   P. F. Andreev, and É. M. Rogozina .......................................................... 584 660

Complex Formation between the Uranium Ion and Orthophosphoric Acid - V. I. Karpov ........................................ 591 667

Complex Formation of Thorium with some Hydroxycarboxylic Acids - A. V. Lapitskii,
   I. Geldancalinu, and M. Beran .................................................................... 595 672

Some Data on the Behavior of Uranium(IV) in Nitric Acid Solutions - N. F. Ermolov
   and N. N. Kret ............................................................................................ 600 678

Thermodynamic Characteristics of some Compounds of Francium - G. A. Krestov .................................................. 607 688

Thermodynamic Characteristics of some Compounds of Astatine and Polonium
   - G. A. Krestov. ......................................................................................... 612 690

Electrolytic Deposition of Am and Cm on a Platinum Cathode from Aqueous Solutions
   - A. G. Samartseva. .................................................................................... 618 696

Polarographic Determination of Uranium in Ores and Minerals - L. N. Lyubimova
   and V. G. Sochevanov ................................................................................. 622 701

Radiochemical Data on the Solubility of Silver Chloride - V. E. Mitronov .............................................................. 627 707

Partial Yield of Isobars with A = 138 - A. P. Apolonova, I. T. Krivuk, and V. N. Ushakshil ...................................... 631 711

Mechanism of the Incorporation of a Radioactive Isotope into a Nuclear Emulsion
   - K. B. Zaborencbo, V. I. Korobkov, and K.A. Radovich ................................................. 634 718

Stability of Cationic Nitrate Complexes of Neodymium and Yttrium - Z. A. Sheka
   and E. E. Kries. ......................................................................................... 639 720

Available From Consultants Bureau

(continued)
# CONTENTS (continued)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adsorption of some Metal Ions from Water During Washing of Silicon. IV.</td>
<td>644</td>
</tr>
<tr>
<td>S. Solnikov, A. N. Belanovskii, and F. B. Nikishova</td>
<td>725</td>
</tr>
<tr>
<td>Sorption of Uranium from Sodium Thiocyanate Solutions by Activated Charcoals</td>
<td>650</td>
</tr>
<tr>
<td>I. A. Kuzin, V. P. Taulikanov, and V. S. Alehechkin</td>
<td>732</td>
</tr>
<tr>
<td><strong>BRIEF COMMUNICATIONS</strong></td>
<td></td>
</tr>
<tr>
<td>Radiochemical Isolation of Carrier-Free Hafnium - II. G. Zaitseva and Chzhol Mo-Lun.</td>
<td>656</td>
</tr>
<tr>
<td>Measurement of the Activity of Components of Complex Mixtures of Organic Substances Containing Carbon-14 - L. P. Firsova and M. F. Barakat</td>
<td>658</td>
</tr>
<tr>
<td>Effect of Actinon and Radon on the Determination of Thoron by the Emanation Method</td>
<td>739</td>
</tr>
<tr>
<td>P. I. Chalkin and N. V. Golubev</td>
<td>659</td>
</tr>
<tr>
<td>Extraction of Carrier-Free Antimony-125 with Oxygen-Containing Solvents - G. M. Dakar and B. Z. Iofa</td>
<td>740</td>
</tr>
<tr>
<td>Author Index, Volume 4, Number 6, 1962</td>
<td>664</td>
</tr>
<tr>
<td>Tables of Contents, Volume 4, Number 6, 1962</td>
<td>744</td>
</tr>
</tbody>
</table>

Available From Consultants Bureau
**CONTENTS**

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1441</td>
</tr>
<tr>
<td>1446</td>
</tr>
<tr>
<td>1455</td>
</tr>
<tr>
<td>1461</td>
</tr>
<tr>
<td>1476</td>
</tr>
<tr>
<td>1479</td>
</tr>
<tr>
<td>1486</td>
</tr>
<tr>
<td>1490</td>
</tr>
<tr>
<td>1498</td>
</tr>
<tr>
<td>1503</td>
</tr>
<tr>
<td>1506</td>
</tr>
<tr>
<td>1510</td>
</tr>
<tr>
<td>1519</td>
</tr>
<tr>
<td>1533</td>
</tr>
<tr>
<td>1540</td>
</tr>
<tr>
<td>1544</td>
</tr>
<tr>
<td>1549</td>
</tr>
<tr>
<td>1552</td>
</tr>
<tr>
<td>1555</td>
</tr>
<tr>
<td>1579</td>
</tr>
<tr>
<td>1582</td>
</tr>
<tr>
<td>1583</td>
</tr>
<tr>
<td>1585</td>
</tr>
<tr>
<td>1598</td>
</tr>
<tr>
<td>1599</td>
</tr>
</tbody>
</table>

N. D. Kolpakov: Correlations in Nonlinear Circuits with Fluctuating Parameters

M. I. Kontorovich: Averaged Boundary Conditions at the Surface of a Crating with Square Mesh

D. Z. Katasonov: Transmission of Millimeter Waves by Reflection from a Series of Focusing Mirrors

P. P. Pavlov: Insulated Loop Antenna with a Spherical Ferrite Core in a Conducting Medium

G. I. Veselov and L. A. Lyubimov: Theory of the Two-Layer Dielectric Waveguide in a Cylindrical Shield

V. F. Kushnir: Theory of First-Order Parametric Systems

Yu. A. Kravtsov: Saturation Power of Certain Types of Nonlinear-Capacitance Amplifiers

M. T. Novoselov and Ye. B. Babich: Ferrite Phase-Shifter Design Problems

L. I. Bazeminek: Variational Method of Calculating the Dispersions of Rod Systems

Ya. L. Shamfarov and T. A. Smirnova: Experimental Investigation of a Two-Level Paramagnetic Amplifier at Frequency 8000 MC


I. V. Kasatkin and G. N. Raisapov: Effect of Mismatch on the Characteristics of O-Type Backward-Wave Oscillator

N. P. Marzin: Properties of Artificial Electron Clouds Formed in a Variable Density Medium

G. M. Avak'yants, B. Atakulov, V. I. Murzin, A. D. Ozeredov and A. Teshabayev: Resistive and Reactive Current Components Through an Asymmetrical P-N Junction in High-Level Injection

N. P. Yesina, N. V. Zodova and D. N. Nasedov: P-N Junctions in Indium Arsenide

M. Ye. Gertsenakov, V. I. Pastukh and S. S. Filippov: Amplification of Hyperbend in Piezoelectric Semiconductors

R. Ye. Smolyanskaya: Temperature-Induced Changes in the Characteristics of p-n-p-n Devices

V. L. Borisov and V. D. Khlystov: Secondary-Electron Emission of MgO Films at Low Primary Electron Energies

O. B. Osaya: Age of Quarts

BRIEF COMMUNICATIONS

V. N. Lugovoy: Surface Impedance for Periodically Nonstationary Media

V. I. Trifonov: Influence of a Periodically Varying Resistance on a Nonregenerative Parametric System

D. B. Khalyapin: Using Diispersive Dielectrics in Capacitive Elements of Microwave Low-Pass Filters

A. I. Baruchov, A. M. Prokhorov and V. V. Savrasov: Biharmonic Operation of an Ammonia-Beam Laser

Yu. P. Pinchov and A. M. Prokhorov: Maser with C2^2 Ion in Rubil Lattice

V. V. Kukushkin: Controlled-Resistance Tunnel Diode

B. V. Donarenko: Method of Investigating Emission Properties of Powders of Refractory Metals, Metallic Compounds and Alloys
### CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1573</td>
</tr>
<tr>
<td>1578</td>
</tr>
<tr>
<td>1582</td>
</tr>
<tr>
<td>1588</td>
</tr>
<tr>
<td>1594</td>
</tr>
<tr>
<td>1620</td>
</tr>
<tr>
<td>1623</td>
</tr>
<tr>
<td>1632</td>
</tr>
<tr>
<td>1644</td>
</tr>
<tr>
<td>1650</td>
</tr>
<tr>
<td>1656</td>
</tr>
<tr>
<td>1662</td>
</tr>
<tr>
<td>1671</td>
</tr>
<tr>
<td>1677</td>
</tr>
<tr>
<td>1680</td>
</tr>
<tr>
<td>1683</td>
</tr>
<tr>
<td>1686</td>
</tr>
<tr>
<td>1647</td>
</tr>
<tr>
<td>1688</td>
</tr>
</tbody>
</table>

### BRIEF COMMUNICATIONS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1691</td>
</tr>
<tr>
<td>1692</td>
</tr>
</tbody>
</table>

Available from Institute of Electrical and Electronics Engineers
CONTENTS

NUMBER 11, 1963

Page
V. I. Tikhonov, Overshoots of the Sum of Signal and Noise .......................... 1693
Yu. Yu. D'yakon, Some Statistical Properties of the Envelope and Phase of a Non-
stationary Gaussian Process ..... 1701
A. V. Frolov, Theory of Passing Wideband Signals in Earth-Satellite Communications
Systems ........................................ 1710
V. V. Malin, Method of Calculation for Periodic Waveguides .......................... 1720
M. M. Beludykh, Cutoff Wavelength of Waveguide-Type Oscillations in Transmission
Lines Having Internal and External Conductors of Rectangular Cross Section . 1727
V. N. Lugovoy, Generalization of the Kramers-Kronig Formulas for Media with
Properties Varying Periodically with Time ........................................... 1733
G. I. Shkolentsev, Parametric Excitation of Oscillations in a Circuit with Nonlinear
Susceptance and Conductance .................................................. 1736
G. N. Bereazovski, Study of Single Electric Model of Neuristor ...................... 1744
S. V. Samsonenko, Calculation of the Pulse Response of a Multistage Circuit Using
(generalized Laguerre Polynomials ................................................. 1751
A. S. Yeromin and B. S. Borov, Measuring the Charge of Short Current Pulses . 1757
A. A. Khudkov, Low-Frequency Modulation Noise in a Floating-Drift Klystron .... 1759
V. N. Danilov, Generalized Conditions for the Brillouin Flow ........................ 1768
Relativistic Electrons and UHF Electric Field in Klystron Output Cavity .......... 1770
Zh. M. Bokin, Effect of Distributed Photocathode Parameters on Pulsed Photomulti-
inor Operation ................................................................. 1785
G. M. Avakyan, V. L. Murzgin, I. N. Sandler, et al., Forward Branch of the V-I
Characteristic of Thin Diode at High Injection Levels ............................ 1792
N. A. Gorbaty and I. I. Ufimtsev, Measurement of the Work Function by the Field
Emission Method ............................................................. 1794
V. N. Shvedov, Averaging of Field-Emissive Work Function .......................... 1803
BRIEF COMMUNICATIONS
N. P. Sobolev, I. S. Shchedrin, A. V. Grzyzov, et al., Graphical Representation of the
Main UHF (High-Frequency) Characteristics of Iris-Loaded Waveguides .... 1813
V. V. Merkler, Determining the Characteristics of Long Waveguide Lines by the
Results of Investigations on Short Lines ........................................ 1817
G. B. Bogdanov and Yu. K. Voronov, Measuring UHF Power by Means of Ferrites ... 1820
Experimental Investigation of Hollow Cathode Operation under Pressures on the
Order of 10^{-2} - 10^{-3} mm of Mercury ......................................... 1824
LETTERS TO THE EDITOR
Remarks on the Article "Concerning Mutual Synchronization of Self-Oscillating
Systems" ................................................................. 1826
Comments on the Article by G. N. Litvinenko and V. I. Soshnikov "Synthesis of
Heterogeneous Lines Based on Solution of the Inverse Sturm-Liouville
Problem" ................................................................. 1827
Reply to V. P. Torchigin's Letter to the Editor Concerning the Article "Synthesis of
Heterogeneous Lines Based on Solution of the Inverse Sturm-Liouville
Problem" ................................................................. 1828
Available From Institute of Electrical and Electronics Engineers

- 102 -
**RADIO ENGINEERING AND ELECTRONIC PHYSICS**

**RAIIOTEKHIKA I EEKTROHIKA**

Vol VIII, No 12, 1963

**NUMBER 12**

<table>
<thead>
<tr>
<th>CONTENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Page</td>
</tr>
<tr>
<td>L. D. Kludyuk, Some Binary Codes with Maximum-Weight Combinations</td>
</tr>
<tr>
<td>Ye. N. Vasylov and A. Il. Seregin, Excitation of a Thick Cylinder of Finite Length</td>
</tr>
<tr>
<td>Ye. G. Zelkin, Synthesis of Planar-Aperture Antennas</td>
</tr>
<tr>
<td>V. V. Shevelevsky, Surface-Wave Propagation Through the Bend of a Plane Guide</td>
</tr>
<tr>
<td>A. G. Sveshnikov and V. I. Molevsky, Propagation of H₀ Mode in a Circular Waveguide Filled with a Gyromagnetic Plasma over a Finite Portion of its Length</td>
</tr>
<tr>
<td>I. M. Proklov, A. V. Khushn, Wave Processes in Lines with Nonlinear Shunt Resistance</td>
</tr>
<tr>
<td>B. D. Surklyevsky, AM Receiver Response to PM or FM Oscillations for Carrier-Frequency Tuning at the Receiver</td>
</tr>
<tr>
<td>A. S. Prokopov, Calculating Output Power of Detector with Almost real Characteristic for Simultaneous Detection of Signal and Noise</td>
</tr>
<tr>
<td>K. N. Rozhenetsovskaya, Absence of Limit Cycles in Laser Equations</td>
</tr>
<tr>
<td>V. N. Ivanov, Brillouin State of Two-Dimensional Electron Flow</td>
</tr>
<tr>
<td>V. V. Livshits and A. A. Subin, Frequency Multiplier Using Nonlinear Capacitance of a Diode with an Abrupt p-n Junction</td>
</tr>
<tr>
<td>L. N. Migulin and M. Z. Chapaevsky, Dependence of Input Conductance of Transistors on Temperature and Collector Current</td>
</tr>
<tr>
<td>L. V. Rozhentsovskaya, Surface Migration and Absorption of Barium Atoms on Single-Crystal Tungsten Filament Faces</td>
</tr>
</tbody>
</table>

**BRIEF COMMUNICATIONS**

| B. Ye. Kiborder, Contribution to the Theory of Flat Horns Having Bounded Edges | 1923 |
| K. P. Ivanov, Gyrotropic Perturbation of a Helical Line | 1927 |
| N. O. Novikov, Yu. B. Markin and V. V. Nikitin, Some Characteristics of a Mode Using a Ne and He Mixture for λ=3.39 μ | 1929 |
| Yu. Ye. D'yanov, "Improvement" of Abbreviated Equations Describing a Parametric Amplifier | 1930 |
| M. I. Zhuravlevsky, Applicability Limits of a Tube Characteristic Approximation by an Incomplete Third-Degree Polynomial | 1933 |
| N. A. Bol'shakov, Effect of Different Doping Impurities on Tunnel Diode V-I Characteristics | 1935 |
| Yu. F. Sokolov, Theory of Frequency Characteristics of p-n Junctions at High Injection Levels | 1936 |
| A. T. Koltovlev and E. P. Lebedev, V-I Characteristic of a Point Contact with Vitreous Semiconductors | 1936 |
| G. N. Serebrovsky, Electrical Analogy for Sensory Nerve-Endings | 1943 |

LETTERS TO THE EDITOR

From the State Committee on Inventions and Discoveries, USSR

Reviews and Bibliography

CONTENTS FOR 1963

Available From Institute of Electrical and Electronics Engineers
CONTENTS

P. M. Gerulit: Design Problems of Spherical Dual-reflector Antennas ............... 1
V. P. Yakovlev: Synthesis of a Linear Antenna with Current Distribution Represented by a Fourier Series with Finite Number of Harmonics ..................... 9
Ye. G. Zelkin: Synthesis of a Synthesising Linear Emitter of Arbitrary Form .... 18
N. G. Denisov and Yu. A. Ryzhkov: Radiation Fluctuations in the Focus of a Lens 26
Yu A. Kovra: Statistical Characteristics of Received Radio Signal as Function of Directivity of the Receiving Antenna ........................................... 32
V. I. Tikhonov: Variance of the Number of Overshoots in Sample Functions of a Normal Noise of Finite Duration ............................................... 35
S. A. Masalov and I. Ye. Tarapov: Diffraction of Electromagnetic Waves by a Three-Dimensional Periodic Grid Composed of Jars of Rectangular Cross Section . 41
A. P. Tarapov: Detection of Signals in Noise in the Presence of Unknown Parameters 46
S. I. Krasnov: Simultaneous Estimation of Amplitude, Phase, Range and Derivatives of Range by Radar Methods ......................................................... 61
L. Kh. Ribkin: Oscillatory Modes of Transistorized Key Frequency Dividers .... 68
V. K. Dzhakhko: Steady-State Oscillations in a Circuit with Nonlinear Capacitance of a p-n Junction .......................................................... 72
V. T. Sviridov: Propagation of Surface and Waveguide TM-Waves between "Metallic" and "Dielectric" Impedance Planes ......................................... 80
V. Ya. Smorgonsky: Determination of the Types of Waves in a Coaxial Cable with Elliptical Conductors .......................................................... 85
M. Ye. Zhukovskii and A. V. Frenkel'son: Paramagnetic Amplifier for Planetary Radar ................................................................. 90
G. N. Roppekat: Approximate Analysis of Synchronization of Self-Oscillations of Type I Backward-Wave Tube by a Weak Signal ...................... 93
S. M. Levitskii and I. N. Groshev: Oscillation Effects in a Diode Filled with Cadmium Vapor ................................................................. 104
V. Ya. Karakhanov and D. G. Taishiev: Low-Frequency Current Oscillations in Thermionic Conversion Cells ............................................. 108
M. A. Rumbei, A. M. Tsytul'k and V. N. Shekunov: X-Ray Photoeffect of a Layered Cathode .......................................................... 115
T. M. Agushnina: Analysis of the Drift Transistor with Consideration of Changes in Mobility and Lifetime of the Carriers ................................ 120
Z. S. Grishin: Voltage-Current Characteristics of Semiconductors Diodes within Large Current Limits ..................................................... 127
BRIEF COMMUNICATIONS
I. V. Koral'kov and V. V. Potemkin: Sensitivity of the Superheterodyne Method for Measuring Amplitude Fluctuations ............................................. 135
A. G. Akmanov, S. A. Akhmanov and V. I. Eshkin: High Order SHF Frequency Divider .......................................................... 137
Ye T. Kucherenko and V. P. Ignatko: One Form of an Inhibited Discharge in a Magnetic Field ..................................................... 140
S. V. Yermakov: Thermionic Emission of Thallium Hexaboride ..................... 142
L. A. Logunov and I. P. Tarkhova: Dependence of Tunnel Diode Parameters on Impurity Density in Germanium ........................................ 143
L. A. Logunov and L. A. Plakhtin: Change of Tunnel Current Density in Producing a p-n Junction ..................................................... 144

Available From Institute of Electrical and Electronics Engineers
CONTENTS

Brownian Motion With a Several-Dimensional Time...... H. P. McKean, Jr. 335
On Homogeneous Continuous Markov Processes That Are Martingales
A. V. Skorokhod 355
On Estimation of the Special Function of a Stationary Gaussian Process
I. A. Ibragimov 360
On the Detection of Disorder in a Manufacturing Process. II. A. N. Shiryaev 402

SHORT COMMUNICATIONS

On a Topologization of the Set of Interior Consistent Families of Measures
N. N. Vorob'ev 414
Markov Measures and Markov Extensions...............N. N. Vorob'ev 420
On Higher Order Spectral Measures of Ergodic Stationary Processes
Ya. G. Sinai 429
On Conditions for Ergodicity of Stationary Processes in Terms of Higher Order
Moments .............................................A. N. Shiryaev 430

Available From Society for Industrial
and Applied Mathematics
Table of Contents

RESOLUTIONS OF THE NOVEMBER (1962) PLENUM OF THE CC CPSU ON IMPROVING STATE LEADERSHIP OVER THE NATIONAL ECONOMY IN OPERATION............. 1 (1)


G. H. Timofeyev DYNAMIC PROPERTIES OF A CLOSED-CIRCUIT GRINDING UNIT. 13 (14)

I. D. Kuzmakov, V. A. Boldarov and G. I. Aristonkov) PYRITE FLOTATION WITH THE USE OF FLAME GASES. 22 (22)

A. A. Krylov and G. S. Gubaidullin) AGGLOMERATING ROASTING OF LEAD CHARGES ON AN UP-DRAFT SINTERING MACHINE, WITH RECIRCULATION OF GASES AND THE USE OF OXYGEN. 26 (27)

N. G. Molova, P. S. Kusakin and G. V. Ivanova) VARIATION IN CHARGE COMPOSITION ALONG THE HEIGHT OF A NICKEL SMELTING SHANT FURNACE WITH A BLAST CONTAINING 40% OXYGEN. 35 (36)

B. R. Zakhardov) SELECTING A SULFIDIZER FOR SHAPT SMELTING OXIDIZED NICKEL ORES. 40 (41)

I. P. Krapovik) SOME RULES GOVERNING THE FORMATION OF SLAG LSING IN METALLURGICAL FURNACES. 44 (44)

E. Bujdoos, A. Zare and L. Tof) A STUDY OF TIME OF STAY AND DEGREE OF MIXING FOR MATERIAL IN CONTINUOUS ACTION AUTOCLAVE BATTERIES AT ALUMINA PLANTS WITH THE USE OF A RADIOACTIVE ISOTOPE. 51 (50)

A. L. Kishchukov, O. A. Lebedev and A. G. Byvatnikov) SOME PROBLEMS CONNECTED WITH THE TECHNOLOGY OF MAGNESIUM ELECTROWINNING. 56 (55)

E. I. Savinov, T. F. Sudich and T. T. Postnikova) DEHYDRATION OF CARNALLITE IN A STREAM OF FLAMMABLE GASES CONTAINING HYDROGEN CHLORIDE AND WATER VAPOR. 62 (61)

V. N. Lomov) DEVELOPMENT OF MINERAL FERTILIZER PRODUCTION. 66 (65)

V. S. Artemov) COVERED MECHANIZED CONVEYING AND TEEMING OF LIGHT METALS AND THEIR ALLOYS. 70 (69)

V. I. Sekolovskii) RELATIVE DISPLACEMENT OF TAPER SECTIONS IN COLD ROLLING OF TUBES. 77 (77)

L. I. Zabukov and R. A. Pakhalatov) PROCESSING CONVERTER DUSTS WITH EXTRACTION OF NICKEL. 83 (83)

A. F. Shabrov and K. F. Lebedev) THE PROBLEM OF INCREASING TECHNICO-ECONOMIC INDICES OF THE SMELTING PROCESS FOR FRIABLE AND BRIQUETTED SHAVINGS IN ELECTRIC FURNACES. 86 (84)

ALL UNION SCIENTIFIC AND TECHNICAL CONFERENCE OF NEW METHODS FOR THE COMPLEX PROCESSING OF POLYMETALLIC RAW MATERIALS. 90 (87)

TECHNICAL CONFERENCE AT THE ALTYN-TOPKAN COMBINE, NAMED FOR V. I. LENIN. 92 (89)

INDO ALL UNION CONFERENCE ON RHENUM. 96 (92)

XXITH MEETING OF THE STANDING COMMISSION OF THE SEV IN NON-FERROUS METALLURGY. 97 (93)

ENGLISH EDITION OF THE BOOK, "AN INTRODUCTION TO THE THEORY OF FLOTATION," BY V. I. Klassen and V. A. Moikrougov. 98 (93)


NEW TECHNICAL LITERATURE. 100 (95)

Available From Primary Sources
Following is a translation of the Russian-language periodical Vestnik svyazi (Herald of Communications), Vol XXIV, No 6, published by the Ministry of Communications USSR and the Central Committee of the Communications, Motor Transport and Highway Workers Trade Union, June 1964, Moscow. Note: Original source pages are given in the left-hand margin. Summaries within brackets are those of the translator.

This issue of the journal is devoted to the problems of rural telephone service.

TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest Communication Equipment for Rural Areas</td>
<td>1</td>
</tr>
<tr>
<td>New Automatic Telephone Offices in Rural Areas</td>
<td>5</td>
</tr>
<tr>
<td>Editorial. For the Further Development and Improvement of Rural Telephone Service, by P. N. Vinogradov</td>
<td>7</td>
</tr>
<tr>
<td>Conference on the Problems of Rural Telephone Service</td>
<td>15</td>
</tr>
<tr>
<td>From the Address by Deputy Minister of Communications USSR I. V. Klokov</td>
<td>16</td>
</tr>
<tr>
<td>Reports of the Participants in the Conference</td>
<td>20</td>
</tr>
<tr>
<td>From the Addresses of the Participants in the Conference</td>
<td>37</td>
</tr>
<tr>
<td>The Conference Recommends</td>
<td>48</td>
</tr>
</tbody>
</table>

Available From JPRS 26211 (Continued)
RURAL COMMUNICATION ENGINEERING

Principles of Organization of Rural Telephone Service,
by Ye. I. Kucheryavyy ........................................ 53

New ATS Equipment for Rural Telephone Service, by
E. A. Mekuzid ..................................................... 60

New Multiplexing Equipment in the Telephone Service System
in Rural Areas, by B. A. Biryukov and M. U. Polynak ....... 70

Automated Power-Supply Installations for Rural Automatic
Telephone Offices, by N. N. Smirnov .......................... 88

ORGANIZATION AND OPERATION OF COMMUNICATION
FACILITIES

Automation of Telephone Service in Moshaynskiy Rayon of
Moscow Oblast, by V. I. Zasypkin ............................. 99

Complete Automation of Telephone Service of Kaliningradskaya
Oblast .......................................................... 106

To Rural Telephone Service — Attention and Care, by O. S.
Kimborg .......................................................... 110

There Has To Be Efficient Communication Service in Rural
Areas, by V. Kh. Grigor'ev ................................. 117

***

To Help Communications Workers, by A. V. Korochkovskiy .... 122

Communications Workers — To Rural Areas /flyleaf/ .......... 128

Connector-Relay Sets for the Interconnection of Rural
Automatic Telephone Offices With the City Automatic
Offices Employing Ten-Step System /flyleaf/ ................. 130

Information Data ............................................... 131

In the Villages of Kievskaya Oblast (Photographs) .......... 139

Available From JPRS 26211

- 108 -
## CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
<th>Russian Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>275</td>
<td>(E)</td>
</tr>
<tr>
<td>276</td>
<td>46, 469</td>
</tr>
<tr>
<td>279</td>
<td>46, 415</td>
</tr>
<tr>
<td>280</td>
<td>46, 431</td>
</tr>
<tr>
<td>282</td>
<td>46, 435</td>
</tr>
<tr>
<td>286</td>
<td>46, 444</td>
</tr>
<tr>
<td>290</td>
<td>46, 447</td>
</tr>
<tr>
<td>292</td>
<td>46, 448</td>
</tr>
<tr>
<td>296</td>
<td>46, 452</td>
</tr>
<tr>
<td>300</td>
<td>46, 457</td>
</tr>
<tr>
<td>310</td>
<td>46, 460</td>
</tr>
<tr>
<td>311</td>
<td>46, 471</td>
</tr>
<tr>
<td>315</td>
<td>46, 472</td>
</tr>
<tr>
<td>325</td>
<td>46, 486</td>
</tr>
<tr>
<td>330</td>
<td>46, 488</td>
</tr>
<tr>
<td>333</td>
<td>46, 492</td>
</tr>
<tr>
<td>337</td>
<td>46, 497</td>
</tr>
<tr>
<td>340</td>
<td>46, 501</td>
</tr>
<tr>
<td>343</td>
<td>46, 505</td>
</tr>
<tr>
<td>346</td>
<td>46, 508</td>
</tr>
<tr>
<td>347</td>
<td>46, 511</td>
</tr>
<tr>
<td>362</td>
<td>46, 531</td>
</tr>
<tr>
<td>366</td>
<td>46, 537</td>
</tr>
<tr>
<td>370</td>
<td>46, 544</td>
</tr>
<tr>
<td>372</td>
<td>46, 555</td>
</tr>
<tr>
<td>373</td>
<td>46, 560</td>
</tr>
<tr>
<td>387</td>
<td>46, 568</td>
</tr>
<tr>
<td>394</td>
<td>46, 578</td>
</tr>
<tr>
<td>397</td>
<td>46, 583</td>
</tr>
<tr>
<td>404</td>
<td>46, 593</td>
</tr>
<tr>
<td>407</td>
<td>46, 598</td>
</tr>
<tr>
<td>415</td>
<td>46, 612</td>
</tr>
<tr>
<td>420</td>
<td>46, 620</td>
</tr>
<tr>
<td>426</td>
<td>46, 628</td>
</tr>
<tr>
<td>432</td>
<td>46, 637</td>
</tr>
<tr>
<td>440</td>
<td>46, 649</td>
</tr>
</tbody>
</table>

(Available From American Institute of Physics
Soviet Physics - JETP
Vol XIX, No 2)
CONTENTS—continued

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>On a Set of Algebraic Equations Equivalent to the Low Equations. (T)</td>
<td>449</td>
<td>663</td>
</tr>
<tr>
<td>The * e p — v + e Reaction Near Threshold. (T)</td>
<td>455</td>
<td>671</td>
</tr>
<tr>
<td>Contribution to the Theory of the Critical Point. (T)</td>
<td>457</td>
<td>673</td>
</tr>
<tr>
<td>Elementary and Composite Particles in the Lagrangian Formalism. (T)</td>
<td>460</td>
<td>677</td>
</tr>
<tr>
<td>On the Possibility of Appearance of Large Scale Inhomogeneities in the Expanding Universe. (T)</td>
<td>467</td>
<td>686</td>
</tr>
<tr>
<td>Inelastic Scattering of Photons by a Coulomb Field Accompanied by Electron-positron Pair Production. (T)</td>
<td>470</td>
<td>690</td>
</tr>
<tr>
<td>On the Theory of Stimulated Combination (Hanman) Radiation. (T)</td>
<td>474</td>
<td>695</td>
</tr>
<tr>
<td>On the Theory of Electromagnetic Effects in the Presence of the Hall Effect. (T)</td>
<td>484</td>
<td>710</td>
</tr>
<tr>
<td>Thermal Conductivity of Dielectrics and Ferroelectrics at Low Temperatures. (T)</td>
<td>490</td>
<td>710</td>
</tr>
<tr>
<td>Mean Field Strength in an Inhomogeneous Medium. (T)</td>
<td>494</td>
<td>725</td>
</tr>
<tr>
<td>A Quasilinear Approximation and the Correlation Functions for a Plasma. (T)</td>
<td>499</td>
<td>732</td>
</tr>
<tr>
<td>Interaction of a Quantum System with a Strong Field. (T)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On the Possibility of Macroseismic Manifestations of Violation of Microscopic Causality. (T)</td>
<td>507</td>
<td>745</td>
</tr>
<tr>
<td>Theory of Cyclotron Resonance in Metals. (T)</td>
<td>514</td>
<td>755</td>
</tr>
<tr>
<td>Scattering of Polarized Gamma Quanta by the Field of a Nucleus Accompanied by Creation of Electron-positron Pairs. (T)</td>
<td>520</td>
<td>764</td>
</tr>
<tr>
<td>Quantum Processes in the Field of a Plane Electromagnetic Wave and in a Constant Field. (T)</td>
<td>524</td>
<td>769</td>
</tr>
<tr>
<td>Phase Shift Analysis of Nucleon-nucleon Scattering at 630 MeV. (T)</td>
<td>529</td>
<td>777</td>
</tr>
<tr>
<td>The Shape of the Nucleus of Rotating Hu II. (T)</td>
<td>642</td>
<td>787</td>
</tr>
<tr>
<td>BRIEF COMMUNICATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy Levels of the 19th Tisotope. (E)</td>
<td>459</td>
<td>807</td>
</tr>
<tr>
<td>Production of Multiply Charged Nuclei in Interactions between 75-350 MeV Protons and Nuclei. (R)</td>
<td>551</td>
<td>809</td>
</tr>
<tr>
<td>LETTERS TO THE EDITOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual np Interaction in Heavy Nuclei and High-lying Isomeric States. (T)</td>
<td>553</td>
<td>811</td>
</tr>
<tr>
<td>Infusion Losses of Cell Nuclei in Plastic Films Activated by High-energy Protons. (R)</td>
<td>564</td>
<td>813</td>
</tr>
<tr>
<td>Effect of an Intense Light Beam on Matter and Particle Beams in a Magnetic Trap. (T)</td>
<td>565</td>
<td>814</td>
</tr>
<tr>
<td>Double Charge Exchange of N* Mesons. (E)</td>
<td>577</td>
<td>817</td>
</tr>
<tr>
<td>Neutrino Scattering by a Polarized Electron. (T)</td>
<td>588</td>
<td>818</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics

Soviet Physics - JETP
Vol XIX, No 2
CONTENTS

Reaction of Porous Glass with Alkaline and Hydrofluoric Acid—O. S. Molchanova, L. A. Orlova, and S. E. Krasikov 1347

Volume Changes in the Leaching of Sodium Borosilicate Glasses—S. E. Krasikov 1352

Determination of Calcium Hydromalhnates—M. F. Malyshev 1357

Effect of Fluorine-Containing Complexes on the Extraction of Zirconium by Tributyl Phosphate—V. M. Kolokolov and V. N. Rybin 1363

Preparation and Properties of Indium Nitride—G. V. Samsonov and M. D. Lyutaya 1370

Reaction of Metallic Silver with Iron Sulfides During Roasting—V. V. Lendershikhov 1373

Reduction of zircon with Carbon—A. A. Davletov and N. A. Sholokova 1374


Study of the Kinetics of the Thermal Decomposition of Porous and Metal Sulfates—V. V. Petukhov, A. G. Zvezdin, and S. V. Katsevskii 1407

Effect of Water Vapor on the Reduction Rate of Cobalt Oxides by Hydrogen—V. F. Balakirev and G. I. Chushkov 1407


Study of the Thermodynamic Properties of Liquid Metal Solutions in the Cadmium—Potassium—Lead System—M. F. Lamnrokov and E. V. Tsatsenk 1412

Liquid—Vapor Equilibrium in the Systems Acetone—Hexane and Hexane—Ethyl Alcohol at 35, 45, 55° and 760 mm of Hg—at L. S. Kol’tanovskii and M. P. Susarev 1419

Effect of Alloying Additives on the Solution of Steels in Mineral Acids—S. A. Balzerin and K. N. Shimov 1425

An Investigation of Internal Mass-Transfer Processes During the Drying of Party Materials under the Conditions Clayaking in the Roller-Belt Dryer—B. S. Savelev and O. A. Tsetnikov 1433

An Experimental Investigation of the Kinetics of Penetration—G. Kuznetsova, I. B. Bitskevich, and I. M. Davydov 1441

Available From Consultants Bureau
<table>
<thead>
<tr>
<th>CONTENTS (continued)</th>
<th>PAGE</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Determination of Transport Parameters—L. B. Ryumberg and I. M. Davydov</td>
<td>1446</td>
<td>1409</td>
</tr>
<tr>
<td>The Effect of Electrolyte Temperature on the Properties and Microstructure of Thick-Layered Anodic Films—Shi, Chi-ming, F. P. Zalivalov, and N. D. Tomashov</td>
<td>1449</td>
<td>1603</td>
</tr>
<tr>
<td>An Investigation of the Effect of Ultrasonic Oscillations on the Electrolytic Deposition of Zinc from Cyanide-Containing Electrolytes—V. I. Falicheva, P. A. Margolin, and I. P. Muchalina</td>
<td>1452</td>
<td>1606</td>
</tr>
<tr>
<td>An Investigation of the Conditions for Electrolytic Deposition of Chromium from Sulfate-Containing Electrolytes—A. I. Falicheva, V. D. Nikitin, and N. V. Savinova</td>
<td>1456</td>
<td>1511</td>
</tr>
<tr>
<td>The Mechanism of the Effect of Thiourea in the Electrolytic Crystallization of Copper—A. F. Vorobiev and V. I. Lapp</td>
<td>1460</td>
<td>1515</td>
</tr>
<tr>
<td>The Electrolytic Reduction of Nitrobenzene-m-Sulfonic Acid and Its Sodium Salt at Iron, Zinc, and Nickel Cathodes—N. E. Khromov and T. N. Smyshlyaeva</td>
<td>1465</td>
<td>1501</td>
</tr>
<tr>
<td>The Corrosion of Aluminum in Moist Soils under the Influence of Alternating Current—Yu. M. Nikhalievskii</td>
<td>1473</td>
<td>1530</td>
</tr>
<tr>
<td>A Study of Inhibitors of the Corrosion of Stainless Steels in an Electrolyte—Hydrocarbon System Containing Hydrogen Sulfide—A. A. Gonik and S. A. Balazin</td>
<td>1478</td>
<td>1536</td>
</tr>
<tr>
<td>Determination of the Rate of Corrosion of Passive Metals by a Radiochemical Method—V. V. Gontilenkov, M. A. Demenovskii, and V. V. Losev</td>
<td>1485</td>
<td>1543</td>
</tr>
</tbody>
</table>
| The Kinetics of Isomerization of n-Hexane on a Tungsten Sulfide Catalyst—G. N. Maslyanski and N. H. Burj}

| | | |
| | | |
| The Problem of Redistribution of the Fractional Composition During Alkaline Pretreatment of the Cellulose from Deciduous Plants—M. M. Chochieva, N. S. Valenevskaya, and N. I. Nikitin | 1503 | 1503 |
| Fractional Composition of Hard- and Sulfated Cellulose from Larch—M. M. Chochieva, Yu. V. Brezhnev, and N. I. Nikitin | 1507 | 1507 |
| The Nitration of Larch Wood with the Aim of Studying Cellulose in a State Close to that in Nature—I. P. Truzatova and G. A. Petropavlovskii | 1517 | 1522 |
| The Stability of Some Polyaldehydes—A. I. Yakubchik and V. S. Shagov | 1523 | 1584 |
| Oxidation of Heavy Shale Tar—A. D. Kukurin and K. A. Galushina | 1530 | 1591 |
| A Study of the Secondary Products from the Synthesis of Dimethylsulfoxide—K. M. Trenk and M. S. Neitkova | 1534 | 1595 |
| The Oxidation of Xylene with Oxygen in Bubbly Cap Columns—V. B. Fal'kovskii, T. A. Turicheva, E. M. Kalmykova, and S. V. Lyov | 1543 | 1604 |
| Synthetic Properties of Some Derivatives of Carbazole—L. A. Tsoi and Z. V. Polyakova | 1547 | 1607 |
| The Preparation of Tetracarboxylic Acids from the Aliphatic Series—B. I. Molchatovskii and V. G. Rabot' | 1553 | 1614 |
| The Preparation of Some Thorium Sulfides by the Reaction of Thorium Oxide with Hydrogen Sulfide—G. V. Samsonov and G. N. Dubrovskaya | 1555 | 1618 |

Available From Consultants Bureau
An Investigation of the Relative Differences in the Mobilities of Isotropic Lithium Ions

V. P. Troshin

The Liquid Vapor Equilibrium in the Systems SOCl₂-TiCl₄ and SO₂Cl₂-TiCl₄

N. I. Delarova and T. A. Zavaritskaya

Standard Values for ΔZ⁰, ΔH⁰, and ΔS⁰ for Gaseous Sulfuric Acid—K. A. Buryak

The interaction of N. N'-Dipentamethylenethiram Disulfide with Sulfur

M. V. Gorelik, L. P. Izun'teva, and L. V. Sakhashchik

The Preparation of Taurine and Dialkytaurines—N. M. Ostanchuk and D. N. Khokhlov

The Problem of the Synthesis of Acrolein Oxime—N. G. Koral'nik and B. E. Geller

The Synthesis of 3,5,3'-Triiodothyroacetic and 3,5,3',5'-Tetraiodothyroacetic Acids

Yu. S. Talzin and N. A. Preobrazhenskii

BIBLIOGRAPHY

Available From Consultants Bureau
CONTENTS

On Nonlinear Energy Losses by a Charge in a Plasma. S. B. Rubin and V. N. Tsytyovich ................................................................. 1
Field of a Charge Filament Uniformly Travelling Past a Conducting Half-Plane. B. M. Botolovskii, and G. V. Voskressenskii .......... 7
On the Radiation of Ions Passing Through a Nonisothermal Magnetoeactive Plasma. V. I. Pakhomov .................................................. 11
Acceleration of Charged Particles by an Alternating Magnetic Field. V. A. Anladinov, V. M. KeIlman, and L. N. Sysoeva ........... 16
Spectroscopical Measurement of Temperature of Ions on the "Tokamak" Apparatus. V. G. Koloshnikov ............................................. 24
Investigation of Diffusion in a Magnetic Field in a Plasma Afterglow. A. A. Ganiechev, V. E. Golani, A. P. Zhilinskaia, B. Z. Khottinskii, and V. N. Shilin ..................................................... 58
Mechanisms for Anomalous Plasma Decay in a Magnetic Field. A. I. Anisamov, V. N. Budnikov, N. I. Vinyogradov, and V. E. Golani ................................................................. 68
Damping of Cyclotron Waves in an Inhomogeneous Magnetic Field. A. D. Pilya ................................................................. (T/E) 71
Experimental Investigation of Quadrupole Lenses with Zero and Negative Chromatic Aberration. S. Ya. Yavor, A. D. Dymnikov, and L. P. Ovsyannikova ................................................................. (E) 76
Electron-Optical Properties of Two-Dimensional Electric and Magnetic Fields with a Median Plane. S. Ya. Yavor and M. Siladi ................................................................. (E) 81
Diffraction of X Rays in Fibrous Materials. P. A. Bezirganyan .................................................................................. (T) 85
Threshold Power of Laser Excitation. A. M. Rainer .................................................................................. (T) 89
Thermionic Emission Properties of Praseodymium Sulfides and Neodymium Sulfides. V. I. Marchenko, G. V. Samsonov, and V. S. Fomenko ................................................................. (E) 99
The Electromagnetic Field of a Turn Carrying an Alternating Current Above a Conducting Plate. V. P. Shamelyov, and Yu. M. Shkarlet ................................................................. (T) 102

Available From American Institute of Physics
Soviet Physics - Technical Physics
Vol IX, No 1

- 114 -
# CONTENTS (Cont'd)

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A High-Vacuum Ion Source.</td>
<td>M. B. Ry'eva, G. V. Spivak, and E. M. Dubina</td>
<td>110</td>
</tr>
<tr>
<td>of a Mercury Discharge.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modulation of Electrons in the Input Matcher of the Shaping Section</td>
<td>A. I. Zykov and E. K. Ostrovskii</td>
<td>117</td>
</tr>
<tr>
<td>of a Linear Accelerator.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nonlinear Theory of the Plasma Waveguide.</td>
<td>A. N. Konradaleko</td>
<td>127</td>
</tr>
<tr>
<td>Approximate Expressions for $Q_{e,p}$ in a Sectorial Cyclotron.</td>
<td>Yu. Ya. Lemba</td>
<td>142</td>
</tr>
<tr>
<td>Interaction between Resonance Regions During Frequency Doubling Utilizing Ferrites.</td>
<td>N. S. Zinchenko and B. A. Zhigalo</td>
<td></td>
</tr>
<tr>
<td>Diffraction of Electromagnetic Waves Obliquely Incident on a Plane</td>
<td>A. L. Adolofina and V. V. Sheherbak</td>
<td>133</td>
</tr>
<tr>
<td>Metallic Grating with a Screen and a Magnetodielectric.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stagnation Temperature of Two-Phase Turbulent Streams in High-Velocity Gas Flow</td>
<td>V. N. Kashnokov</td>
<td>139</td>
</tr>
<tr>
<td>Small-Scale Structure of Magnetohydrodynamic Turbulence.</td>
<td>L. S. Margushit</td>
<td>145</td>
</tr>
<tr>
<td>BRIEF COMMUNICATIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Experimental Investigation of the Diffraction of Electromagnetic</td>
<td>A. V. Pronovlov, O. A. Tret'yakov, and V. P. Shestapolov</td>
<td>148</td>
</tr>
<tr>
<td>Waves on Double Metallic Gratings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LETTERS TO THE EDITOR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On the Theory of Plasma Pinching by Electromagnetic Waves.</td>
<td>L. V. Lothe</td>
<td>151</td>
</tr>
<tr>
<td>Available From American Institute of Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Soviet Physics - Technical Physics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vol IX, No 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

- A -

<table>
<thead>
<tr>
<th>Author</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abagyan, G. V.</td>
<td>37</td>
</tr>
<tr>
<td>Abelev, G. I.</td>
<td>37</td>
</tr>
<tr>
<td>Abramescu, Aurel</td>
<td>13</td>
</tr>
<tr>
<td>Abramov, L.</td>
<td>3</td>
</tr>
<tr>
<td>Adum, Ogjyan</td>
<td>18</td>
</tr>
<tr>
<td>Agblemagne, D'sougan</td>
<td>23</td>
</tr>
<tr>
<td>Agre, A. L.</td>
<td>1</td>
</tr>
<tr>
<td>Aidit, D. N.</td>
<td>25, 27</td>
</tr>
<tr>
<td>Aissaoui, Mohamed</td>
<td>23</td>
</tr>
<tr>
<td>Akaycov, M.</td>
<td>3</td>
</tr>
<tr>
<td>Akhatov, S.</td>
<td>3</td>
</tr>
<tr>
<td>Akhmedov, Sh.</td>
<td>52</td>
</tr>
<tr>
<td>Akhundov, V.</td>
<td>7</td>
</tr>
<tr>
<td>Akulinichev, I. T.</td>
<td>35</td>
</tr>
<tr>
<td>Aleksandrov, I.</td>
<td>7</td>
</tr>
<tr>
<td>Aleksandrov, V.</td>
<td>7</td>
</tr>
<tr>
<td>Al'kseyev, N. G.</td>
<td>42</td>
</tr>
<tr>
<td>Al'eshin, Ye. P.</td>
<td>34</td>
</tr>
<tr>
<td>Alexandrescu, Vasile</td>
<td>14</td>
</tr>
<tr>
<td>Alibayli, S. A.</td>
<td>45</td>
</tr>
<tr>
<td>Aligadzhiev, G. A.</td>
<td>43</td>
</tr>
<tr>
<td>Almasan, Bufor</td>
<td>13, 14</td>
</tr>
<tr>
<td>Al'terman, S. L.</td>
<td>5</td>
</tr>
<tr>
<td>Amolenko, V. N.</td>
<td>53</td>
</tr>
<tr>
<td>Amosov, N. M.</td>
<td>42</td>
</tr>
<tr>
<td>Anderson, D.</td>
<td>23</td>
</tr>
<tr>
<td>Andrejov, K. K.</td>
<td>57</td>
</tr>
<tr>
<td>Andrejov, B. A.</td>
<td>48</td>
</tr>
<tr>
<td>Andrejov, N. D.</td>
<td>54</td>
</tr>
<tr>
<td>Andrejov, N. S.</td>
<td>54</td>
</tr>
<tr>
<td>Andrejov, V. D.</td>
<td>55</td>
</tr>
<tr>
<td>Andrejov, V. I.</td>
<td>48</td>
</tr>
<tr>
<td>Andrejova, L. D.</td>
<td>54</td>
</tr>
<tr>
<td>Andrejova, N. Ye.</td>
<td>40</td>
</tr>
<tr>
<td>Andrejova, Ye. I.</td>
<td>34</td>
</tr>
<tr>
<td>Angelov, Stefan</td>
<td>16</td>
</tr>
<tr>
<td>Angolova, G.</td>
<td>9</td>
</tr>
<tr>
<td>An, Vu</td>
<td>26</td>
</tr>
<tr>
<td>An-Nashrati, Ahmad</td>
<td>24</td>
</tr>
<tr>
<td>Hamid</td>
<td></td>
</tr>
<tr>
<td>Ansolin, F.</td>
<td>57</td>
</tr>
<tr>
<td>Antonov, V. N.</td>
<td>42</td>
</tr>
<tr>
<td>Antonyan, A.</td>
<td>4</td>
</tr>
<tr>
<td>Araboy, Ye. N.</td>
<td>48</td>
</tr>
<tr>
<td>Arkhipova, E. G.</td>
<td>49</td>
</tr>
<tr>
<td>Arnault, Jacques</td>
<td>22</td>
</tr>
<tr>
<td>Arnold, Kurt</td>
<td>50</td>
</tr>
<tr>
<td>Arrisson, V. Ya.</td>
<td>4</td>
</tr>
<tr>
<td>Arustamyan, S.</td>
<td>3</td>
</tr>
<tr>
<td>Arutyunov, I. Kh.</td>
<td>40</td>
</tr>
<tr>
<td>Arzakan'yam, Ts.</td>
<td>7</td>
</tr>
<tr>
<td>Asakina, K.</td>
<td>45</td>
</tr>
<tr>
<td>Astafeva, A. V.</td>
<td>41</td>
</tr>
<tr>
<td>Atanasova, G.</td>
<td>9</td>
</tr>
<tr>
<td>at-Turnaiqi, Abd-Allah</td>
<td>24</td>
</tr>
<tr>
<td>Aurich, F.</td>
<td>60</td>
</tr>
<tr>
<td>Auslander, A.</td>
<td>13</td>
</tr>
<tr>
<td>Avayev, V. N.</td>
<td>56</td>
</tr>
<tr>
<td>Averchenko, Arkady</td>
<td>40</td>
</tr>
<tr>
<td>Avers'yanov, K.</td>
<td>2</td>
</tr>
<tr>
<td>Ayant, V.</td>
<td>60</td>
</tr>
<tr>
<td>Aynhindor, N. M.</td>
<td>42</td>
</tr>
<tr>
<td>Azhazha, V. M.</td>
<td>53</td>
</tr>
</tbody>
</table>

- B -

<table>
<thead>
<tr>
<th>Author</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Babayan, K.</td>
<td>41</td>
</tr>
<tr>
<td>Babikov, V. V.</td>
<td>56</td>
</tr>
<tr>
<td>Babskiy, Yo. B.</td>
<td>38</td>
</tr>
<tr>
<td>Backo, Milan</td>
<td>17</td>
</tr>
<tr>
<td>Badamshin, B. I.</td>
<td>41</td>
</tr>
<tr>
<td>Badinov, I. Ya.</td>
<td>47</td>
</tr>
<tr>
<td>Badmarag, P.</td>
<td>27</td>
</tr>
<tr>
<td>Bagrov, I. N.</td>
<td>1</td>
</tr>
<tr>
<td>Bakayev, V. G.</td>
<td>7</td>
</tr>
<tr>
<td>Balashov, Yu. S.</td>
<td>43</td>
</tr>
<tr>
<td>Baldielli, B.</td>
<td>45</td>
</tr>
<tr>
<td>Ball, G. O.</td>
<td>55</td>
</tr>
<tr>
<td>Balogh, Bela</td>
<td>11</td>
</tr>
<tr>
<td>Baltonau, Mikhail</td>
<td>19</td>
</tr>
<tr>
<td>Banciu, S. S.</td>
<td>14</td>
</tr>
<tr>
<td>Banga, Ali</td>
<td>16</td>
</tr>
<tr>
<td>Baraboy, V. A.</td>
<td>36</td>
</tr>
<tr>
<td>Barado, Lajos</td>
<td>35</td>
</tr>
<tr>
<td>Baranov, O.</td>
<td>7</td>
</tr>
<tr>
<td>Baranov, V. I.</td>
<td>47</td>
</tr>
<tr>
<td>Bares, Gustav</td>
<td>18</td>
</tr>
<tr>
<td>Barak, B.</td>
<td>48</td>
</tr>
<tr>
<td>Barzy, Hamadou</td>
<td>21</td>
</tr>
<tr>
<td>Barskiy, M. R.</td>
<td>5</td>
</tr>
<tr>
<td>Bausing, C.</td>
<td>53</td>
</tr>
<tr>
<td>Baum, M.</td>
<td>54</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Dorgacs, Ferenc</td>
<td>11</td>
</tr>
<tr>
<td>deSy, A. L.</td>
<td>46</td>
</tr>
<tr>
<td>Dethoor, Nicole</td>
<td>16</td>
</tr>
<tr>
<td>Deutschman, Zdzislaw</td>
<td>12</td>
</tr>
<tr>
<td>de Vries, J.</td>
<td>20</td>
</tr>
<tr>
<td>Dez, J.</td>
<td>21</td>
</tr>
<tr>
<td>Dherami, Idris</td>
<td>16</td>
</tr>
<tr>
<td>Didkovskiy, V. P.</td>
<td>53</td>
</tr>
<tr>
<td>Diefi, Joerg</td>
<td>53</td>
</tr>
<tr>
<td>Dikij, L. A.</td>
<td>49</td>
</tr>
<tr>
<td>Dil'man, V. M.</td>
<td>42</td>
</tr>
<tr>
<td>Dimitrov, Raycho</td>
<td>18</td>
</tr>
<tr>
<td>Djekic, Nada</td>
<td>19</td>
</tr>
<tr>
<td>Djokosudjono</td>
<td>25</td>
</tr>
<tr>
<td>Djuric, George</td>
<td>17</td>
</tr>
<tr>
<td>Dmitriyev, A. S.</td>
<td>43</td>
</tr>
<tr>
<td>Dobritskaya, Yu. I.</td>
<td>45</td>
</tr>
<tr>
<td>Dobryanskiy, A. I.</td>
<td>4</td>
</tr>
<tr>
<td>Dobryshmen, Ye. M.</td>
<td>48</td>
</tr>
<tr>
<td>Dogel', V.</td>
<td>41</td>
</tr>
<tr>
<td>Dol'nik, V. R.</td>
<td>43</td>
</tr>
<tr>
<td>Dombrovoiskiy, N. G.</td>
<td>4</td>
</tr>
<tr>
<td>Donets, E. D.</td>
<td>56</td>
</tr>
<tr>
<td>Donov, Ivan</td>
<td>16</td>
</tr>
<tr>
<td>Donskoy, M. D.</td>
<td>39</td>
</tr>
<tr>
<td>Dontsov, K.</td>
<td>6</td>
</tr>
<tr>
<td>Dosch, P.</td>
<td>57</td>
</tr>
<tr>
<td>Dragol', I. D.</td>
<td>8</td>
</tr>
<tr>
<td>Drawin, H. W.</td>
<td>61</td>
</tr>
<tr>
<td>Dubiknytis, Yu. V.</td>
<td>37</td>
</tr>
<tr>
<td>Dudzinski, Wladislaw</td>
<td>13</td>
</tr>
<tr>
<td>Dunayov, N.</td>
<td>5</td>
</tr>
<tr>
<td>Duong, Huong</td>
<td>30</td>
</tr>
<tr>
<td>D'yachenko</td>
<td>6</td>
</tr>
<tr>
<td>D'yachenko, Ye.</td>
<td>2</td>
</tr>
<tr>
<td>Dzhavadyan, N. S.</td>
<td>40</td>
</tr>
<tr>
<td>Dzudzinski, Wladyslaw</td>
<td>13</td>
</tr>
<tr>
<td>Ehlinzon, M. P.</td>
<td>4</td>
</tr>
<tr>
<td>Eisenkolb, F.</td>
<td>54</td>
</tr>
<tr>
<td>El'darov, A. L.</td>
<td>43</td>
</tr>
<tr>
<td>El'limer, David</td>
<td>20, 21</td>
</tr>
<tr>
<td>Emel'yanov, Yu. M.</td>
<td>45</td>
</tr>
<tr>
<td>Engeli, H. J.</td>
<td>61</td>
</tr>
<tr>
<td>Erdmann, W. D.</td>
<td>44</td>
</tr>
<tr>
<td>Erlosand, L.</td>
<td>52</td>
</tr>
<tr>
<td>Erofeyev, V. S.</td>
<td>35</td>
</tr>
<tr>
<td>Eskin, I.</td>
<td>40</td>
</tr>
<tr>
<td>Establier, Rafael</td>
<td>45</td>
</tr>
<tr>
<td>Esze, Zsuza</td>
<td>11</td>
</tr>
<tr>
<td>Evanno, Francois-Marcel</td>
<td>52</td>
</tr>
</tbody>
</table>

- F -

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faleyev, V.</td>
<td>39</td>
</tr>
<tr>
<td>Farber, M. S.</td>
<td>34</td>
</tr>
<tr>
<td>Farkhadov, A. A.</td>
<td>45</td>
</tr>
<tr>
<td>Fatkullin, O. Kh.</td>
<td>51</td>
</tr>
<tr>
<td>Favale, E.</td>
<td>45</td>
</tr>
<tr>
<td>Favre, Henry</td>
<td>61</td>
</tr>
<tr>
<td>Fedchanko, I.</td>
<td>14</td>
</tr>
<tr>
<td>Fedonyuk, P. M.</td>
<td>42</td>
</tr>
<tr>
<td>Fedorenko, N.</td>
<td>1, 3</td>
</tr>
<tr>
<td>Fedorov, A. F.</td>
<td>40</td>
</tr>
<tr>
<td>Fedorov, G.</td>
<td>1</td>
</tr>
<tr>
<td>Fedorov, Ye. K.</td>
<td>48</td>
</tr>
<tr>
<td>Fekete, Gyorgy</td>
<td>11</td>
</tr>
<tr>
<td>Fel'zenbaum, V. G.</td>
<td>4</td>
</tr>
<tr>
<td>Ferencel, Stefan</td>
<td>10</td>
</tr>
<tr>
<td>Ferrianc, Jan</td>
<td>10</td>
</tr>
<tr>
<td>Fernandez, R.</td>
<td>56</td>
</tr>
<tr>
<td>Fermiot, Jean</td>
<td>21</td>
</tr>
<tr>
<td>Ferrier, C.</td>
<td>57</td>
</tr>
<tr>
<td>Fessard, A.</td>
<td>44</td>
</tr>
<tr>
<td>Potisov, E. P.</td>
<td>58</td>
</tr>
<tr>
<td>Pick, Brinislav</td>
<td>13</td>
</tr>
<tr>
<td>Pijalkowski, Josef</td>
<td>12</td>
</tr>
<tr>
<td>Filipovic, Muhammed</td>
<td>17</td>
</tr>
<tr>
<td>Filyukov, V.</td>
<td>5</td>
</tr>
<tr>
<td>Fincl, Zak</td>
<td>35</td>
</tr>
<tr>
<td>Fiori, W.</td>
<td>45</td>
</tr>
<tr>
<td>Fischer, W. A.</td>
<td>53</td>
</tr>
<tr>
<td>Fishkin, V. I.</td>
<td>40</td>
</tr>
<tr>
<td>Pitalov, S. Ya.</td>
<td>55</td>
</tr>
<tr>
<td>Florov, C. I.</td>
<td>37</td>
</tr>
<tr>
<td>Florescu, Mihail</td>
<td>13</td>
</tr>
<tr>
<td>Fontana, A.</td>
<td>53</td>
</tr>
<tr>
<td>Fontana, Andre</td>
<td>60</td>
</tr>
<tr>
<td>Foppel, L.</td>
<td>51</td>
</tr>
<tr>
<td>Fragner, P.</td>
<td>44</td>
</tr>
<tr>
<td>Franke, A.</td>
<td>50</td>
</tr>
<tr>
<td>Franko, Wilhelm</td>
<td>61</td>
</tr>
<tr>
<td>Frascu, Paul</td>
<td>10</td>
</tr>
<tr>
<td>Freitag, W.</td>
<td>57</td>
</tr>
<tr>
<td>Frohsa, Helmut</td>
<td>61</td>
</tr>
<tr>
<td>Fridlyander, I. N.</td>
<td>53</td>
</tr>
<tr>
<td>Frolik's</td>
<td>39</td>
</tr>
<tr>
<td>Frolova, O. B.</td>
<td>55</td>
</tr>
<tr>
<td>Fujii, Hisashi</td>
<td>45</td>
</tr>
<tr>
<td>Fucks-Rabinovich, M. S.</td>
<td>49</td>
</tr>
<tr>
<td>Fundulis, Khristos</td>
<td>9</td>
</tr>
<tr>
<td>Furet, J.</td>
<td>56</td>
</tr>
<tr>
<td>Fursov, N. B.</td>
<td>4</td>
</tr>
<tr>
<td>Furse, Takayoshi</td>
<td>58</td>
</tr>
</tbody>
</table>

- 119 -
Gubel, Joseph 20  
Gado, Otto 11  
Gaillard, F. 53  
Galin, M. B. 47  
Galtsev, A. P. 47  
Gamaleya, A. N. 39  
Gamburtsev, G. A. 49  
Ganchev, G. 9  
Gavrilov, V. S. 53  
Gareev, A. P. 47  
Goryukhina, T. A. 42  
Gar, K. A. 34  
Garavolgyl, Karoly 11  
Gariel, M. 60  
Gataric, Djuro 17  
Gauzenko, O. G. 38  
Gel'berg, L. 1  
Genin, A. M. 33  
Genkin, A. A. 43  
Georgiev, B. 9  
Georgiyev, G. P. 38  
Gephter, V. G. 43  
Gerasimov, V. V. 53  
Germain, H. 20  
Gershuni, G. V. 43  
Gershenson, C. 61  
Geshakov, V. 16  
Gesmundo, Francesco 58  
Goyko, N. F. 5  
Goylikonon, B. T. 56  
Ghita, N. 13  
Gil' donberg, Z. 4  
Gilov, V. P. 43  
Gig, Bernard 61  
Gindentulor, D. M. 41  
Girard, Y. 59  
Girs, I. I. 41  
Gladkova, A. M. 40  
Gleitso, Bruno 19  
Glezor, V. D. 38  
Gligorovic, Rajko 15  
Glowczyk, Jan 13  
Glubrecht, H. 57  
Glushkov, M. G. 5  
Glushkov, V. 1  
Glidenko, P. D. 7  
Gobert, Gerard 59  
Godlewski, Michal 18  
Godunov, S. K. 55  
Godzioj, J. 10  
Goldanskiy, V. I. 45  
Golinevich, E. M. 36  
Gologo, Mamadou 22  
Gomory, Geza 11  
Gondjout, Paul 21  
Gorbachev, N. 6  
Gorbunov, O. N. 38  
Gorky, G. N. 53  
Gorodinskiy, S. M. 35  
Gorshkov, S. I. 38  
Goryukhina, T. A. 42  
Gosowisch, Dieter 10  
Grabin, V. R. 53  
Grachowi, N. D. 37  
Graik, Shnlom 24  
Gataric, Djuro 17  
Graik, Vladimir 8  
Graik, G. A. 51  
Grippa, Jacques 20  
Grishin, V. V. 5  
Grossik, M. 51  
Grusik, B. M. 4  
Grizodub, Yu. N. 59  
Gromov, O. M. 43  
Gromova, A. I. 53  
Groza, Octavian 13  
Gruppi, Luciano 20  
Grysiak, Jan 12  
Gryuner, V. S. 41  
Grzegorcezyk, S. 52  
Gubelli, O. 46  
Gubenko, Ivan 9  
Gucwa, Stanislaw 13  
Gurovsky, N. N. 33  
Gusarov, I. I. 48  
Gustafsson, Silas 58  
Gustav, Andre 21  
Gustson, P. P. 43  
Gutschmidt, J. 44  
Gyurzhian, A. A. 38  
Gyurov, St. 8  

- I -

Ha, Hon 30  
Habraken, L. 60  
Haertig, M. 63  
Hako, Hulusi 16  
Ham, Ilyong-suk 25  
Hammers, H. 46  
Hamarae B., Amadou 23  
Han, Sang-tu 25  
Haring, N. 44  
Harmel, Claude 21  
Hattori, Nakoto 61  
Hayashi, A. 58  

- 120 -
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hegedus, Gyula</td>
<td>11</td>
</tr>
<tr>
<td>Heinze, D.</td>
<td>57</td>
</tr>
<tr>
<td>Herbst, W.</td>
<td>45</td>
</tr>
<tr>
<td>Herlitze, K.</td>
<td>57</td>
</tr>
<tr>
<td>Hernandez, Gregorio</td>
<td>32</td>
</tr>
<tr>
<td>Herrera, J.</td>
<td>45</td>
</tr>
<tr>
<td>Herzl, A.</td>
<td>52</td>
</tr>
<tr>
<td>Hosse, Gerhard</td>
<td>46</td>
</tr>
<tr>
<td>Hettner, A.</td>
<td>17</td>
</tr>
<tr>
<td>Hilschger, R.</td>
<td>51</td>
</tr>
<tr>
<td>Hinsch, H.</td>
<td>57</td>
</tr>
<tr>
<td>Hintz, Eduard</td>
<td>52</td>
</tr>
<tr>
<td>Hippol, A. V.</td>
<td>61</td>
</tr>
<tr>
<td>Ho, Ch'ing-jui</td>
<td>24</td>
</tr>
<tr>
<td>Hoa, Viot</td>
<td>30</td>
</tr>
<tr>
<td>Hoang, Dion</td>
<td>25</td>
</tr>
<tr>
<td>Hoang, Hua Nhan</td>
<td>26, 31</td>
</tr>
<tr>
<td>Hoang, Huyen</td>
<td>31</td>
</tr>
<tr>
<td>Hoang, Minh</td>
<td>26</td>
</tr>
<tr>
<td>Hoang, Minh Thao</td>
<td>30</td>
</tr>
<tr>
<td>Hoang, Thieu Son</td>
<td>30</td>
</tr>
<tr>
<td>Hoang, Van Thai</td>
<td>28</td>
</tr>
<tr>
<td>Hong, Choung</td>
<td>30</td>
</tr>
<tr>
<td>Hong, Sungpyo'o</td>
<td>30</td>
</tr>
<tr>
<td>Horvath, Tiberiu</td>
<td>13</td>
</tr>
<tr>
<td>Hsi, Fong-yuan</td>
<td>29</td>
</tr>
<tr>
<td>Hsin, Chung-chih</td>
<td>28</td>
</tr>
<tr>
<td>Hsin, Shion-chiuh</td>
<td>59</td>
</tr>
<tr>
<td>Hua, Lo-keng</td>
<td>55</td>
</tr>
<tr>
<td>Huang, Chin-lin</td>
<td>46</td>
</tr>
<tr>
<td>Huang, Chi'iu-yun</td>
<td>29</td>
</tr>
<tr>
<td>Huelgi, H.</td>
<td>61</td>
</tr>
<tr>
<td>Hung, Ti-fan</td>
<td>28</td>
</tr>
<tr>
<td>Huybrechts, M.</td>
<td>61</td>
</tr>
<tr>
<td>Hwang, Yong-sik</td>
<td>29</td>
</tr>
<tr>
<td>Ignatova, T. A.</td>
<td>45</td>
</tr>
<tr>
<td>Ignatovsky, P.</td>
<td>34</td>
</tr>
<tr>
<td>Ignat'yev, M. A.</td>
<td>51</td>
</tr>
<tr>
<td>Il'ina, A. I.</td>
<td>42</td>
</tr>
<tr>
<td>Il'ytievskii, I. I.</td>
<td>53</td>
</tr>
<tr>
<td>Imai, K.</td>
<td>58</td>
</tr>
<tr>
<td>Immamliyev, A. S.</td>
<td>40</td>
</tr>
<tr>
<td>Imhof, E.</td>
<td>17</td>
</tr>
<tr>
<td>Ingolic, Jozef</td>
<td>35</td>
</tr>
<tr>
<td>Ioffe, R. A.</td>
<td>40</td>
</tr>
<tr>
<td>Iozhitsa, N. A.</td>
<td>41</td>
</tr>
<tr>
<td>Ish, G.</td>
<td>30</td>
</tr>
<tr>
<td>Istomin, B. P.</td>
<td>49</td>
</tr>
<tr>
<td>Isupova, F. N.</td>
<td>46</td>
</tr>
<tr>
<td>Ivanikov, A. T.</td>
<td>39</td>
</tr>
<tr>
<td>Ivanov, I. I.</td>
<td>46</td>
</tr>
<tr>
<td>Ivanov, K.</td>
<td>47</td>
</tr>
</tbody>
</table>

Ivanov, Kiril          | 16   |
Ivanov, S. M.          | 36   |
Ivanov, V. A.          | 1    |
Ivanov, V. D.          | 7    |
Ivanov, Yu. N.         | 51   |
Ivanova, L. N.         | 40   |
Ivantskov, V.          | 7    |
Ivashnov, N. N.        | 7    |
Iwasaki, Matae         | 54   |
Izotov, A. A.          | 48   |

Jacques, R.            | 60   |
Jacquot, Andre         | 23   |
Jaeckel, G.            | 57   |
Jakob, L.              | 46, 53 |
Jalan-najay, S.        | 27   |
Jannicki, Ante         | 19   |
Jankowiak, Ludwik      | 12   |
Jankowska, E.          | 44   |
Jarić, Miha           | 9    |
Jaworski, Wladyslaw    | 12   |
Jedlinski, Stefan      | 12   |
Jadzachowski, Stefan   | 12   |
Jelicic, Mih           | 19   |
Jensen, J.             | 57   |
Jesnitzor, F.          | 52   |
Jović, Radiivoje       | 18   |
Jimenez, Antonio Nunez | 32   |
Jirasek, J.            | 40   |
J., Ch-Eng-hou         | 35   |
Ju-hsin               | 29   |
Jucys, A.              | 58   |
Jurock, Zdenek         | 18   |

Kahan'kov, V. Ga.      | 47   |
Kahanova, Yu. C.       | 40   |
Kal'chenko, E. I.      | 39   |
Kalinina, G., P.       | 33   |
Kal'manov, A. C.       | 45   |
Kal'ny, V. S.          | 42   |
Kalugina, A. A.        | 41   |
Kaluzhny, D. N.        | 38   |
Kaninda, Albert        | 22   |
Kantyrov, I.           | 7    |
Kapranov, I.           | 5    |
Kapustinskiy, A. F.    | 59   |
Karpov, J.             | 44   |
Kardos, Iboya         | 47   |
Karinova, M. M.        | 43   |
Karmakonov, V. A.      | 56   |
Karpman, V. L.         | 38   |
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Karpov, A.</td>
<td>3</td>
</tr>
<tr>
<td>Karzinkin, G. S.</td>
<td>42</td>
</tr>
<tr>
<td>Kassnitz, H.</td>
<td>52</td>
</tr>
<tr>
<td>Kassirov, L.</td>
<td>5</td>
</tr>
<tr>
<td>Kas'yan, I. I.</td>
<td>38</td>
</tr>
<tr>
<td>Katic, Djordje</td>
<td>19</td>
</tr>
<tr>
<td>Katz, A. L.</td>
<td>49</td>
</tr>
<tr>
<td>Katz, I. Ya.</td>
<td>62</td>
</tr>
<tr>
<td>Katz, Shaul</td>
<td>24</td>
</tr>
<tr>
<td>Kawaguchi, R. J.</td>
<td>61</td>
</tr>
<tr>
<td>Kazovskiy, I. G.</td>
<td>5</td>
</tr>
<tr>
<td>Keilor, D.</td>
<td>54</td>
</tr>
<tr>
<td>Kelor, E. K.</td>
<td>46</td>
</tr>
<tr>
<td>Ken</td>
<td>22</td>
</tr>
<tr>
<td>Kohn, Eberhard</td>
<td>57</td>
</tr>
<tr>
<td>Korsten, H.</td>
<td>47</td>
</tr>
<tr>
<td>Korsten, W.</td>
<td>47</td>
</tr>
<tr>
<td>Kosik, Bronislav</td>
<td>12</td>
</tr>
<tr>
<td>Kotholyi, J.</td>
<td>54</td>
</tr>
<tr>
<td>Khai, Nguyen</td>
<td>30</td>
</tr>
<tr>
<td>Khalifman, I.</td>
<td>39</td>
</tr>
<tr>
<td>Kharin, V.</td>
<td>2</td>
</tr>
<tr>
<td>Khuysin, Ye. M.</td>
<td>43</td>
</tr>
<tr>
<td>Khitrov, L. M.</td>
<td>47</td>
</tr>
<tr>
<td>Khrabnikov, G. I.</td>
<td>56</td>
</tr>
<tr>
<td>Khodorov, B. I.</td>
<td>37</td>
</tr>
<tr>
<td>Kholodov, Yu. A.</td>
<td>43</td>
</tr>
<tr>
<td>Khursakov, Yu. B.</td>
<td>37</td>
</tr>
<tr>
<td>Khvundzho, V. M.</td>
<td>53</td>
</tr>
<tr>
<td>Khushchev, N. S.</td>
<td>6</td>
</tr>
<tr>
<td>Kiguradze</td>
<td>59</td>
</tr>
<tr>
<td>Kil'chevskiy, N. A.</td>
<td>51</td>
</tr>
<tr>
<td>Kim, Chin-myun</td>
<td>25</td>
</tr>
<tr>
<td>Kim, Chong-wan</td>
<td>25</td>
</tr>
<tr>
<td>Kim, Se-bong</td>
<td>27</td>
</tr>
<tr>
<td>Kim, Tong-guk</td>
<td>25</td>
</tr>
<tr>
<td>Kimel'blat, M. A.</td>
<td>37</td>
</tr>
<tr>
<td>Kimina-Makumbu, Fulbert</td>
<td></td>
</tr>
<tr>
<td>Kiralyi, Erno</td>
<td>11</td>
</tr>
<tr>
<td>Kirichinskiy, B. R.</td>
<td>36</td>
</tr>
<tr>
<td>Kirinica, J.</td>
<td>15</td>
</tr>
<tr>
<td>Kirov, S. M.</td>
<td>37</td>
</tr>
<tr>
<td>Kiselev, P. N.</td>
<td>59</td>
</tr>
<tr>
<td>Klauser, Ivan</td>
<td>15</td>
</tr>
<tr>
<td>Kloeinknecht, H. P.</td>
<td>60</td>
</tr>
<tr>
<td>Kloparskaya, N. N.</td>
<td>39</td>
</tr>
<tr>
<td>Klein, R.</td>
<td>40</td>
</tr>
<tr>
<td>Klemp, Ernst</td>
<td>44</td>
</tr>
<tr>
<td>Klotzler, R.</td>
<td>55</td>
</tr>
<tr>
<td>Klinskiy, A.</td>
<td>3</td>
</tr>
<tr>
<td>Klosi, Bilbil</td>
<td>16</td>
</tr>
<tr>
<td>Knipprath, Wornor</td>
<td>44</td>
</tr>
<tr>
<td>K'o, Ch'ing-shih</td>
<td>29</td>
</tr>
<tr>
<td>Kohalev, G. N.</td>
<td>62</td>
</tr>
<tr>
<td>Koblents-Mishke, O. I.</td>
<td>10</td>
</tr>
<tr>
<td>Kochorezhkin, V. G.</td>
<td>62</td>
</tr>
<tr>
<td>Kochow, A.</td>
<td>4</td>
</tr>
<tr>
<td>Koenigshofer, E.</td>
<td>52</td>
</tr>
<tr>
<td>Kohler, Max</td>
<td>54</td>
</tr>
<tr>
<td>Kokin, G. A.</td>
<td>33</td>
</tr>
<tr>
<td>Kokushkin, V.</td>
<td>5</td>
</tr>
<tr>
<td>Kol'man, E.</td>
<td>62</td>
</tr>
<tr>
<td>Komarov, V. I.</td>
<td>56</td>
</tr>
<tr>
<td>Konakov, N. N.</td>
<td>49</td>
</tr>
<tr>
<td>Kondrat'ev, K. Ya.</td>
<td>47</td>
</tr>
<tr>
<td>Konig, K. H.</td>
<td>57</td>
</tr>
<tr>
<td>Konstantinova-Antonova, Nadzhda</td>
<td>62</td>
</tr>
<tr>
<td>Konstantinovskiy, M.</td>
<td>62</td>
</tr>
<tr>
<td>Konyushayn, R.</td>
<td>6</td>
</tr>
<tr>
<td>Kopanov, V. I.</td>
<td>38</td>
</tr>
<tr>
<td>Koplonig, Johann</td>
<td>20</td>
</tr>
<tr>
<td>Kornev, K.</td>
<td>41</td>
</tr>
<tr>
<td>Korobeynikov, N.</td>
<td>7</td>
</tr>
<tr>
<td>Koronatova, T. D.</td>
<td>49</td>
</tr>
<tr>
<td>Korotkov, R.</td>
<td>4</td>
</tr>
<tr>
<td>Korzhuyev, P. A.</td>
<td>35</td>
</tr>
<tr>
<td>Kosai, I. V.</td>
<td>25</td>
</tr>
<tr>
<td>Kosa'iC-Cetkovic, Desanka</td>
<td>19</td>
</tr>
<tr>
<td>Kost, Pjotor</td>
<td>8, 18</td>
</tr>
<tr>
<td>Kostadinov, Georgii</td>
<td>9</td>
</tr>
<tr>
<td>Kostandyan, L. I.</td>
<td>40</td>
</tr>
<tr>
<td>Kotesovec, V.</td>
<td>59</td>
</tr>
<tr>
<td>Kotov, P.</td>
<td>3</td>
</tr>
<tr>
<td>Kots, I.</td>
<td>2</td>
</tr>
<tr>
<td>Kotev, Venelin</td>
<td>18</td>
</tr>
<tr>
<td>Kotysh, N.</td>
<td>6</td>
</tr>
<tr>
<td>K'ou, Lai-1</td>
<td>34</td>
</tr>
<tr>
<td>Kovac, Forest</td>
<td>11</td>
</tr>
<tr>
<td>Kovalenko, P. P.</td>
<td>40</td>
</tr>
<tr>
<td>Kovalenko, Yu. A.</td>
<td>38</td>
</tr>
<tr>
<td>Kovalev, A.</td>
<td>2</td>
</tr>
<tr>
<td>Kovalovskiy, K. L.</td>
<td>39</td>
</tr>
<tr>
<td>Kovrigin, A. B.</td>
<td>55</td>
</tr>
<tr>
<td>Kozachek, Zhigniow</td>
<td>12</td>
</tr>
<tr>
<td>Kozhovnikov, A.</td>
<td>7</td>
</tr>
<tr>
<td>Kozlov, A. G.</td>
<td>7</td>
</tr>
<tr>
<td>Kozlov, L. Y.</td>
<td>33</td>
</tr>
<tr>
<td>Kozlovskiy, V. K.</td>
<td>5</td>
</tr>
<tr>
<td>Kozyrova, L. S.</td>
<td>56</td>
</tr>
<tr>
<td>Krasulnikov, N. N.</td>
<td>51</td>
</tr>
<tr>
<td>Krasl'mushkin, P. Ya.</td>
<td>58</td>
</tr>
<tr>
<td>Kraskovskiy, V. I.</td>
<td>47</td>
</tr>
<tr>
<td>Krause, N.</td>
<td>52</td>
</tr>
<tr>
<td>Krause, Walter</td>
<td>10</td>
</tr>
<tr>
<td>Krauss, P.</td>
<td>57</td>
</tr>
<tr>
<td>Krauss, F.</td>
<td>52</td>
</tr>
<tr>
<td>Kromnova, N. U.</td>
<td>54</td>
</tr>
<tr>
<td>Kronova, R. A.</td>
<td>37</td>
</tr>
<tr>
<td>Krepl, Ye. M.</td>
<td>46</td>
</tr>
<tr>
<td>Kres, R.</td>
<td>38</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
</tr>
<tr>
<td>Kriegel, H.</td>
<td>44</td>
</tr>
<tr>
<td>Krneta, Ljubomir</td>
<td>19</td>
</tr>
<tr>
<td>Kruger, A.</td>
<td>51</td>
</tr>
<tr>
<td>Krupko, I. L.</td>
<td>40</td>
</tr>
<tr>
<td>Krupnova, G. F.</td>
<td>42</td>
</tr>
<tr>
<td>Kruzik, Lubomir</td>
<td>10</td>
</tr>
<tr>
<td>Ku, T’i-jon</td>
<td>46</td>
</tr>
<tr>
<td>Kubovich, Branko</td>
<td>15</td>
</tr>
<tr>
<td>Kucera, Milan</td>
<td>18</td>
</tr>
<tr>
<td>Kuchmont, L. S.</td>
<td>49</td>
</tr>
<tr>
<td>Kudryavtsov, A.</td>
<td>3</td>
</tr>
<tr>
<td>Kudryavtsov, Vladimir</td>
<td>6</td>
</tr>
<tr>
<td>Kuhlow, Friedrich</td>
<td>44, 45</td>
</tr>
<tr>
<td>Kuhn, W.</td>
<td>57</td>
</tr>
<tr>
<td>Kuhn, Werner</td>
<td>46</td>
</tr>
<tr>
<td>Kulbyshov, V. V.</td>
<td>4</td>
</tr>
<tr>
<td>Kulikova, I.</td>
<td>33</td>
</tr>
<tr>
<td>Kul’vets, P.</td>
<td>4</td>
</tr>
<tr>
<td>Kumpf, G.</td>
<td>56</td>
</tr>
<tr>
<td>Kunchong</td>
<td>28</td>
</tr>
<tr>
<td>Kuo, Shang-p’ing</td>
<td>51</td>
</tr>
<tr>
<td>Kurilova, L. M.</td>
<td>37</td>
</tr>
<tr>
<td>Kurochkin, P.</td>
<td>6</td>
</tr>
<tr>
<td>Kurpin, V. I.</td>
<td>48</td>
</tr>
<tr>
<td>Kuzmanov, Aleksi</td>
<td>9</td>
</tr>
<tr>
<td>Kuz’menko, V.</td>
<td>2</td>
</tr>
<tr>
<td>Kuz’michev, A. R.</td>
<td>41</td>
</tr>
<tr>
<td>Kuz’min, V. V.</td>
<td>4</td>
</tr>
<tr>
<td>Kuz’minov, A. P.</td>
<td>42</td>
</tr>
<tr>
<td>Kuznotsov, A. D.</td>
<td>4</td>
</tr>
<tr>
<td>Kyandarynn, K. A.</td>
<td>36</td>
</tr>
<tr>
<td>Kynov, S.</td>
<td>51</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Ladozov, Kh.</td>
<td>8</td>
</tr>
<tr>
<td>Lalllement, R.</td>
<td>60</td>
</tr>
<tr>
<td>Lambert, Gerard</td>
<td>60</td>
</tr>
<tr>
<td>Lambert, M.</td>
<td>60</td>
</tr>
<tr>
<td>Landolfo, Antonio</td>
<td>20</td>
</tr>
<tr>
<td>Lapchinskiy, A. G.</td>
<td>39</td>
</tr>
<tr>
<td>Lapidus, L. I.</td>
<td>56</td>
</tr>
<tr>
<td>Lapin, Ye. Ye.</td>
<td>42</td>
</tr>
<tr>
<td>Lapkin, K.</td>
<td>34</td>
</tr>
<tr>
<td>Larin, V.</td>
<td>6</td>
</tr>
<tr>
<td>Lashko, N. F.</td>
<td>53</td>
</tr>
<tr>
<td>Lasko, S. V.</td>
<td>53</td>
</tr>
<tr>
<td>Lassen, Lars</td>
<td>61</td>
</tr>
<tr>
<td>Lataste, Alban</td>
<td>31</td>
</tr>
<tr>
<td>Lavrova, M. A.</td>
<td>49</td>
</tr>
<tr>
<td>Lazarov, Kiril</td>
<td>8</td>
</tr>
<tr>
<td>Le, Duc Tho</td>
<td>31</td>
</tr>
<tr>
<td>Le, Quang Ba</td>
<td>27</td>
</tr>
<tr>
<td>Le, Quang Hon</td>
<td>28</td>
</tr>
<tr>
<td>Le, Quang Tuan</td>
<td>26</td>
</tr>
<tr>
<td>Le, Thang</td>
<td>27</td>
</tr>
<tr>
<td>Le, Thanh Nghi</td>
<td>25</td>
</tr>
<tr>
<td>Lo, Tu Dong</td>
<td>31</td>
</tr>
<tr>
<td>Lo, Van Quy</td>
<td>25</td>
</tr>
<tr>
<td>Lo, Viet Luong</td>
<td>26</td>
</tr>
<tr>
<td>Leibfried, G.</td>
<td>60</td>
</tr>
<tr>
<td>Lojaj, R. P.</td>
<td>50</td>
</tr>
<tr>
<td>Lolichenko, H.</td>
<td>5</td>
</tr>
<tr>
<td>Lomairo, Joseph</td>
<td>52</td>
</tr>
<tr>
<td>Lemberger, V.</td>
<td>15</td>
</tr>
<tr>
<td>Long, M.</td>
<td>60</td>
</tr>
<tr>
<td>Lontz, Hugo</td>
<td>52</td>
</tr>
<tr>
<td>Louinehard, Wolfgang</td>
<td>16</td>
</tr>
<tr>
<td>Lounidov, D.</td>
<td>3</td>
</tr>
<tr>
<td>Lounov, A. K.</td>
<td>47</td>
</tr>
<tr>
<td>Luont'yo, B.</td>
<td>33</td>
</tr>
<tr>
<td>Luont'yo, V. G.</td>
<td>43</td>
</tr>
<tr>
<td>Lopeschkin, V. V.</td>
<td>42</td>
</tr>
<tr>
<td>Loroy, V.</td>
<td>60</td>
</tr>
<tr>
<td>Lesnitskiy, M. L.</td>
<td>51</td>
</tr>
<tr>
<td>Lesz, Mieczyslaw</td>
<td>12</td>
</tr>
<tr>
<td>Letourne, J.</td>
<td>59</td>
</tr>
<tr>
<td>Letellier, Jean</td>
<td>22</td>
</tr>
<tr>
<td>Leuw, M.</td>
<td>20</td>
</tr>
<tr>
<td>Levai, Andras</td>
<td>11</td>
</tr>
<tr>
<td>Levin, A. G.</td>
<td>49</td>
</tr>
<tr>
<td>Levin, B. S.</td>
<td>45</td>
</tr>
<tr>
<td>Levin, V. I.</td>
<td>56</td>
</tr>
<tr>
<td>Levina, L.</td>
<td>2</td>
</tr>
<tr>
<td>Levitin, K.</td>
<td>39</td>
</tr>
<tr>
<td>Levykin, N. N.</td>
<td>5</td>
</tr>
<tr>
<td>Leykina, B. N.</td>
<td>54</td>
</tr>
<tr>
<td>Li, Han-wei</td>
<td>24</td>
</tr>
<tr>
<td>Li, Kuan-hua</td>
<td>46</td>
</tr>
<tr>
<td>Li, Guang-huan</td>
<td>29</td>
</tr>
<tr>
<td>Li, Mu-i</td>
<td>29</td>
</tr>
<tr>
<td>Liang, Chen-lan</td>
<td>34</td>
</tr>
<tr>
<td>Liang, Ming</td>
<td>24</td>
</tr>
<tr>
<td>Liang, Yao</td>
<td>24</td>
</tr>
<tr>
<td>Liberan, Ye. A.</td>
<td>57</td>
</tr>
<tr>
<td>Limanskiy, Yu. P.</td>
<td>38</td>
</tr>
<tr>
<td>Lin, Jung</td>
<td>44</td>
</tr>
<tr>
<td>Lin, Nung</td>
<td>29</td>
</tr>
<tr>
<td>Lin, Wen-shan</td>
<td>29</td>
</tr>
<tr>
<td>Lindenau, Gisela</td>
<td>10</td>
</tr>
<tr>
<td>Linkun, N.</td>
<td>5</td>
</tr>
<tr>
<td>Litvak, S.</td>
<td>5</td>
</tr>
<tr>
<td>Litvinov, I.</td>
<td>50</td>
</tr>
<tr>
<td>Liu, Ts' u-ch'un</td>
<td>51</td>
</tr>
<tr>
<td>Livenson, A. R.</td>
<td>39</td>
</tr>
<tr>
<td>Livshits, N. S.</td>
<td>33</td>
</tr>
<tr>
<td>Lomov, B.</td>
<td>51</td>
</tr>
<tr>
<td>Lomova, M. A.</td>
<td>33</td>
</tr>
<tr>
<td>Longinotti, L.</td>
<td>47</td>
</tr>
<tr>
<td>Lorenzelli, Vincenzo</td>
<td>58</td>
</tr>
<tr>
<td>Lou, Nan-ch' uan</td>
<td>59, 63</td>
</tr>
<tr>
<td>Lovas, Martin</td>
<td>11</td>
</tr>
<tr>
<td>Lozhinski, I.</td>
<td>56</td>
</tr>
<tr>
<td>Lu, K'wai-hung</td>
<td>62</td>
</tr>
<tr>
<td>Lybyanitskiy, G. D.</td>
<td>39</td>
</tr>
<tr>
<td>Lukashov, V. N.</td>
<td>41</td>
</tr>
<tr>
<td>Lukashovitch, V. A.</td>
<td>4</td>
</tr>
<tr>
<td>Lukman, M. H.</td>
<td>25</td>
</tr>
<tr>
<td>Luk'yumov, I.</td>
<td>3</td>
</tr>
<tr>
<td>Lund, Arnold</td>
<td>58</td>
</tr>
<tr>
<td>Luong, Chi</td>
<td>26</td>
</tr>
<tr>
<td>Lutte, A.</td>
<td>41</td>
</tr>
<tr>
<td>Lutz, Georg</td>
<td>51</td>
</tr>
<tr>
<td>Luty, Fritz</td>
<td>61</td>
</tr>
<tr>
<td>Lyapidevsky, V. K.</td>
<td>48</td>
</tr>
<tr>
<td>Lyot, B.</td>
<td>50</td>
</tr>
<tr>
<td>Lyshenkov, V. F.</td>
<td>59</td>
</tr>
<tr>
<td>Lyzwinsko, M.</td>
<td>52</td>
</tr>
</tbody>
</table>

---

M

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ma, Ching-yuan</td>
<td>24</td>
</tr>
<tr>
<td>Madiyevskiy, Yu. M.</td>
<td>39</td>
</tr>
<tr>
<td>Mailo, Pierro</td>
<td>52</td>
</tr>
<tr>
<td>Maitam, Livio</td>
<td>22</td>
</tr>
<tr>
<td>Makarchenko, A. F.</td>
<td>35</td>
</tr>
<tr>
<td>Makarenko, A. S.</td>
<td>3</td>
</tr>
<tr>
<td>Makarov, V. A.</td>
<td>41</td>
</tr>
<tr>
<td>Maksimov, S. L.</td>
<td>42</td>
</tr>
<tr>
<td>Malecki, Ignacy</td>
<td>12</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
</tr>
<tr>
<td>Mallet, Serge</td>
<td>26</td>
</tr>
<tr>
<td>Mamedov, H. H.</td>
<td>30</td>
</tr>
<tr>
<td>Manevich, Ye.</td>
<td>5</td>
</tr>
<tr>
<td>Mankovsky, G. I.</td>
<td>48</td>
</tr>
<tr>
<td>Manuciu, N.</td>
<td>8</td>
</tr>
<tr>
<td>Manzini, R.</td>
<td>55</td>
</tr>
<tr>
<td>Marasuka, M. K.</td>
<td>37</td>
</tr>
<tr>
<td>Marchuk, G. I.</td>
<td>48</td>
</tr>
<tr>
<td>Mare, Ichuran</td>
<td>8</td>
</tr>
<tr>
<td>Marek, Franz</td>
<td>20</td>
</tr>
<tr>
<td>Margineanu, Ion</td>
<td>14</td>
</tr>
<tr>
<td>Margolin, L. M.</td>
<td>49</td>
</tr>
<tr>
<td>Marinescu, Ion</td>
<td>14</td>
</tr>
<tr>
<td>Markovic, Aksenije</td>
<td>14</td>
</tr>
<tr>
<td>Markovic, Djordje</td>
<td>15</td>
</tr>
<tr>
<td>Martin, H. J.</td>
<td>57</td>
</tr>
<tr>
<td>Martin, B.</td>
<td>56</td>
</tr>
<tr>
<td>Martynov, V. S.</td>
<td>51</td>
</tr>
<tr>
<td>Martynov, Yu. M.</td>
<td>51</td>
</tr>
<tr>
<td>Martynuk, V. V.</td>
<td>55</td>
</tr>
<tr>
<td>Marzahn, Kurt</td>
<td>50</td>
</tr>
<tr>
<td>Maslak, Y.</td>
<td>52</td>
</tr>
<tr>
<td>Maslakovshvili, A. A.</td>
<td>37</td>
</tr>
<tr>
<td>Massina, S.</td>
<td>10</td>
</tr>
<tr>
<td>Matschke, F. W.</td>
<td>10</td>
</tr>
<tr>
<td>Mattel, H.</td>
<td>52</td>
</tr>
<tr>
<td>Mayorov, V. E.</td>
<td>7</td>
</tr>
<tr>
<td>Mayskyi, I. N.</td>
<td>37</td>
</tr>
<tr>
<td>Natajeva, N. M.</td>
<td>33</td>
</tr>
<tr>
<td>Nakhichen, B. I.</td>
<td>37</td>
</tr>
<tr>
<td>Medunitsyn, N. V.</td>
<td>36</td>
</tr>
<tr>
<td>Nevedov, Zh.</td>
<td>39</td>
</tr>
<tr>
<td>Nelesnod, A.</td>
<td>39</td>
</tr>
<tr>
<td>Mel'chuk, I. A.</td>
<td>55</td>
</tr>
<tr>
<td>Mel'nikov, N.</td>
<td>6</td>
</tr>
<tr>
<td>Mel'nikov, N. N.</td>
<td>34</td>
</tr>
<tr>
<td>Mel'nikova, V. B.</td>
<td>40</td>
</tr>
<tr>
<td>Melzig, H. D.</td>
<td>61</td>
</tr>
<tr>
<td>Manshukin, V. V.</td>
<td>43</td>
</tr>
<tr>
<td>Merzlyakov, N. S.</td>
<td>22</td>
</tr>
<tr>
<td>Mozuntssova, N. V.</td>
<td>38</td>
</tr>
<tr>
<td>Meyerson, F. Z.</td>
<td>38</td>
</tr>
<tr>
<td>Micaud, G.</td>
<td>57</td>
</tr>
<tr>
<td>Michel, F. V.</td>
<td>44</td>
</tr>
<tr>
<td>Michel, Louis</td>
<td>56</td>
</tr>
<tr>
<td>Michna, Waldemar</td>
<td>11, 35</td>
</tr>
<tr>
<td>Mihailovic, Stefan</td>
<td>15</td>
</tr>
<tr>
<td>Nilok, Bena</td>
<td>11</td>
</tr>
<tr>
<td>Mikhailov, Evgeni</td>
<td>8</td>
</tr>
<tr>
<td>Mikhailov, I. A.</td>
<td>59</td>
</tr>
<tr>
<td>Mikhailov, S. V.</td>
<td>40</td>
</tr>
<tr>
<td>Mikhailov, Mikhail</td>
<td>34</td>
</tr>
<tr>
<td>Mikhailova, I. G.</td>
<td>41</td>
</tr>
<tr>
<td>Mikhailovskyi, V. N.</td>
<td>58</td>
</tr>
<tr>
<td>Milankov, k.</td>
<td>16</td>
</tr>
<tr>
<td>Miller, Charles E.</td>
<td>44</td>
</tr>
<tr>
<td>Millionszhikov, M.</td>
<td>59</td>
</tr>
<tr>
<td>Millevi, P.</td>
<td>57</td>
</tr>
<tr>
<td>Milovanovic, Branka</td>
<td>35</td>
</tr>
<tr>
<td>Mill'shetya, G. N.</td>
<td>62</td>
</tr>
<tr>
<td>Milyakin, I. P.</td>
<td>5</td>
</tr>
<tr>
<td>Minand, R.</td>
<td>50</td>
</tr>
<tr>
<td>Minchenkova, B. I.</td>
<td>39</td>
</tr>
<tr>
<td>Minin, N.</td>
<td>5</td>
</tr>
<tr>
<td>Minina, L. S.</td>
<td>48</td>
</tr>
<tr>
<td>Minkov, D.</td>
<td>8</td>
</tr>
<tr>
<td>Minov, Ivan</td>
<td>8</td>
</tr>
<tr>
<td>Miroshnikenko, S.</td>
<td>32</td>
</tr>
<tr>
<td>Minchev, Vasil</td>
<td>9</td>
</tr>
<tr>
<td>Mirkovic, Dobrivoje</td>
<td>15</td>
</tr>
<tr>
<td>Missir, M.</td>
<td>19</td>
</tr>
<tr>
<td>Mitran, I.</td>
<td>17</td>
</tr>
<tr>
<td>Mitrofanova, A.</td>
<td>6</td>
</tr>
<tr>
<td>Mitschevik, M. S.</td>
<td>37</td>
</tr>
<tr>
<td>Mladenov, Boris</td>
<td>9</td>
</tr>
<tr>
<td>Nikolovskiy, Vladimir</td>
<td>16</td>
</tr>
<tr>
<td>Kochisikhi, N.</td>
<td>58</td>
</tr>
<tr>
<td>Moshissi, A.</td>
<td>53</td>
</tr>
<tr>
<td>Mogilevskaya, O. Ya.</td>
<td>38</td>
</tr>
<tr>
<td>P女ilyanskiy, Ya. D.</td>
<td>58</td>
</tr>
<tr>
<td>Noseyev, N. N.</td>
<td>55</td>
</tr>
<tr>
<td>Noseyev, P. A.</td>
<td>42</td>
</tr>
<tr>
<td>Nosehanova, I. V.</td>
<td>40</td>
</tr>
<tr>
<td>Nosehanova, I. V.</td>
<td>49</td>
</tr>
<tr>
<td>Nonkhoi, B.</td>
<td>25</td>
</tr>
<tr>
<td>Nosicica, Wanda</td>
<td>13</td>
</tr>
<tr>
<td>Noskalowski, Tadousz</td>
<td>13</td>
</tr>
<tr>
<td>Noskvin, L. N.</td>
<td>56</td>
</tr>
<tr>
<td>Mozhikhin, A. S.</td>
<td>35</td>
</tr>
<tr>
<td>Mueller, F.</td>
<td>10</td>
</tr>
<tr>
<td>Muller, Franz</td>
<td>10</td>
</tr>
<tr>
<td>Nam, Chi'su</td>
<td>25</td>
</tr>
<tr>
<td>Namuz, F.</td>
<td>45</td>
</tr>
<tr>
<td>Nuzzel, F.</td>
<td>57</td>
</tr>
<tr>
<td>Naruto, Tetsuro</td>
<td>58</td>
</tr>
<tr>
<td>Naruvov, I.</td>
<td>39</td>
</tr>
<tr>
<td>Burawska, Halina</td>
<td>12</td>
</tr>
<tr>
<td>Mylnikov, V. G.</td>
<td>42</td>
</tr>
<tr>
<td>Myumba, N.</td>
<td>53</td>
</tr>
</tbody>
</table>

-N-

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nahara, Sigezo</td>
<td>61</td>
</tr>
<tr>
<td>Naoui, T.</td>
<td>28</td>
</tr>
<tr>
<td>Nauchnyov, A.</td>
<td>53</td>
</tr>
<tr>
<td>Natochini, Yu. V.</td>
<td>43</td>
</tr>
<tr>
<td>Navez, M.</td>
<td>60</td>
</tr>
<tr>
<td>Nubakwaje, Libere</td>
<td>23</td>
</tr>
<tr>
<td>Nengo, Flore</td>
<td>14</td>
</tr>
</tbody>
</table>

- 125 -
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nclpspo, B. A.</td>
<td>50</td>
</tr>
<tr>
<td>Nemirovich, V.</td>
<td>2</td>
</tr>
<tr>
<td>Nprochnov, Yu. P.</td>
<td>49</td>
</tr>
<tr>
<td>Norgui, P.</td>
<td>27</td>
</tr>
<tr>
<td>Neummann, Friedrich</td>
<td>16</td>
</tr>
<tr>
<td>Neumeister, K.</td>
<td>44</td>
</tr>
<tr>
<td>Novskaya, A. A.</td>
<td>38</td>
</tr>
<tr>
<td>Noyevin, Ye. A.</td>
<td>1</td>
</tr>
<tr>
<td>Noskhkovskiy, R. A.</td>
<td>49</td>
</tr>
<tr>
<td>Ngo, Minh Loan</td>
<td>30</td>
</tr>
<tr>
<td>Ngo, Van Cat</td>
<td>30</td>
</tr>
<tr>
<td>Ngoc, The</td>
<td>26</td>
</tr>
<tr>
<td>Nguyen, Huy Trinh</td>
<td>25</td>
</tr>
<tr>
<td>Nguyen, Huy</td>
<td>30</td>
</tr>
<tr>
<td>Nguyen, Khai</td>
<td>30</td>
</tr>
<tr>
<td>Nguyen, Ky Nhien</td>
<td>28</td>
</tr>
<tr>
<td>Nguyen, Lam</td>
<td>30</td>
</tr>
<tr>
<td>Nguyen, Minh Vy</td>
<td>28, 30</td>
</tr>
<tr>
<td>Nguyen, Pham Ngoc</td>
<td>26</td>
</tr>
<tr>
<td>Nguyen, Van Con</td>
<td>28</td>
</tr>
<tr>
<td>Nguyen, Van Tan</td>
<td>26</td>
</tr>
<tr>
<td>Nick, Harry</td>
<td>10</td>
</tr>
<tr>
<td>Nickrawietz, K.</td>
<td>52</td>
</tr>
<tr>
<td>Nicrolescu, Vasil e</td>
<td>17</td>
</tr>
<tr>
<td>Nieh, Feng-lin</td>
<td>29</td>
</tr>
<tr>
<td>Nikitina, T. N.</td>
<td>54</td>
</tr>
<tr>
<td>Nikolayev, I.</td>
<td>6</td>
</tr>
<tr>
<td>Nikolayev, L. A.</td>
<td>46</td>
</tr>
<tr>
<td>Nikolayev, Ye.</td>
<td>39</td>
</tr>
<tr>
<td>Nikolayev, Yu. V.</td>
<td>1</td>
</tr>
<tr>
<td>Nikolova-Troyeva, L.</td>
<td>42</td>
</tr>
<tr>
<td>Nimulo</td>
<td>28</td>
</tr>
<tr>
<td>Njoto</td>
<td>29</td>
</tr>
<tr>
<td>Nong, quoc Chau</td>
<td>31</td>
</tr>
<tr>
<td>Norgradi, J.</td>
<td>10</td>
</tr>
<tr>
<td>Norsayev, Yu. V.</td>
<td>59</td>
</tr>
<tr>
<td>Novak, L. A.</td>
<td>55</td>
</tr>
<tr>
<td>Novikov, I. I.</td>
<td>53</td>
</tr>
<tr>
<td>Novikova, V. N.</td>
<td>35</td>
</tr>
<tr>
<td>Novotny, Jozepa</td>
<td>16</td>
</tr>
<tr>
<td>Novozhilov, S.</td>
<td>2</td>
</tr>
<tr>
<td>Oche-yong</td>
<td>30</td>
</tr>
<tr>
<td>Oberhoffer, A. F.</td>
<td>52</td>
</tr>
<tr>
<td>Obloj, Jozef</td>
<td>12</td>
</tr>
<tr>
<td>Ohkhaizco, L. V.</td>
<td>37</td>
</tr>
<tr>
<td>Okas, G. N.</td>
<td>51</td>
</tr>
<tr>
<td>Oleczak, J.</td>
<td>50, 54</td>
</tr>
<tr>
<td>Oleczak, Tadeusz</td>
<td>50</td>
</tr>
<tr>
<td>Oleszkiewicz, M.</td>
<td>55</td>
</tr>
<tr>
<td>Or, Janos</td>
<td>11</td>
</tr>
<tr>
<td>Orlov, N.</td>
<td>12</td>
</tr>
<tr>
<td>Orlov, N. N.</td>
<td>3</td>
</tr>
<tr>
<td>Orlov, V. N.</td>
<td>40</td>
</tr>
<tr>
<td>Oshavkov, Zhivko</td>
<td>18</td>
</tr>
<tr>
<td>Osipova, M. A.</td>
<td>55</td>
</tr>
<tr>
<td>Osten, Walter</td>
<td>6</td>
</tr>
<tr>
<td>Ott, Harry</td>
<td>16</td>
</tr>
<tr>
<td>Oudet, L.</td>
<td>50</td>
</tr>
<tr>
<td>Ovchinnikov, Yu. V.</td>
<td>59</td>
</tr>
<tr>
<td>Overko, S. O.</td>
<td>41</td>
</tr>
<tr>
<td>Ossepian, S. G.</td>
<td>58</td>
</tr>
<tr>
<td>Ozerotskovskiy, N. A.</td>
<td>37</td>
</tr>
<tr>
<td>Ozhigova, A. P.</td>
<td>43</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Papasche, John</td>
<td>16</td>
</tr>
<tr>
<td>Pacurowska, R.</td>
<td>56</td>
</tr>
<tr>
<td>Pacurar, Ion</td>
<td>13</td>
</tr>
<tr>
<td>Pal, K'o-chih</td>
<td>35</td>
</tr>
<tr>
<td>Paillarc, J.</td>
<td>44</td>
</tr>
<tr>
<td>Paja, Bozidar</td>
<td>19</td>
</tr>
<tr>
<td>Pak, G. A.</td>
<td>55</td>
</tr>
<tr>
<td>Pak, Hak-su</td>
<td>29</td>
</tr>
<tr>
<td>Pakhomova, M. V.</td>
<td>1</td>
</tr>
<tr>
<td>Pall, Laszlo</td>
<td>11</td>
</tr>
<tr>
<td>Pahn, A.</td>
<td>2</td>
</tr>
<tr>
<td>Panchenkov, G. M.</td>
<td>46</td>
</tr>
<tr>
<td>Panfilov, V. R.</td>
<td>59</td>
</tr>
<tr>
<td>Panfilova, Z. Ye.</td>
<td>35</td>
</tr>
<tr>
<td>Panin, V. V.</td>
<td>53</td>
</tr>
<tr>
<td>Papapavl, Teodor</td>
<td>8</td>
</tr>
<tr>
<td>Paparazzo, Martin</td>
<td>20</td>
</tr>
<tr>
<td>Papist, Rudolf</td>
<td>15</td>
</tr>
<tr>
<td>Papoyan, S. A.</td>
<td>36</td>
</tr>
<tr>
<td>Parsenov, Yu. B.</td>
<td>37</td>
</tr>
<tr>
<td>Parnbok, V. P.</td>
<td>42</td>
</tr>
<tr>
<td>Parin, V.</td>
<td>39</td>
</tr>
<tr>
<td>Parin, V. V.</td>
<td>38</td>
</tr>
<tr>
<td>Parmes, V. A.</td>
<td>43</td>
</tr>
<tr>
<td>Parriaux, G.</td>
<td>52</td>
</tr>
<tr>
<td>Parsamova, G. L.</td>
<td>51</td>
</tr>
<tr>
<td>Partschmann, W.</td>
<td>44</td>
</tr>
<tr>
<td>Parygin, A. O.</td>
<td>42</td>
</tr>
<tr>
<td>Passalega, Dumitru</td>
<td>19</td>
</tr>
<tr>
<td>Pastukhov, N.</td>
<td>32</td>
</tr>
<tr>
<td>Pavlov, Ye. G.</td>
<td>41</td>
</tr>
<tr>
<td>Pavlova, M. N.</td>
<td>40</td>
</tr>
<tr>
<td>Pavlovskiy, E. N.</td>
<td>36</td>
</tr>
<tr>
<td>Pavlu, Josef</td>
<td>10</td>
</tr>
<tr>
<td>Pawelski, O.</td>
<td>52</td>
</tr>
<tr>
<td>P'eng, Chen</td>
<td>29</td>
</tr>
<tr>
<td>Pertsev, V.</td>
<td>3</td>
</tr>
<tr>
<td>Pesonen, U.</td>
<td>50</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Posel', M.</td>
<td>1</td>
</tr>
<tr>
<td>Possi, Ville</td>
<td>21</td>
</tr>
<tr>
<td>Peter, J.</td>
<td>61</td>
</tr>
<tr>
<td>Peterburgskiy, A. V.</td>
<td>53</td>
</tr>
<tr>
<td>Petersen, Knud Niels</td>
<td>51</td>
</tr>
<tr>
<td>Petkov, B.</td>
<td>16</td>
</tr>
<tr>
<td>Petkovich, G. I.</td>
<td>61</td>
</tr>
<tr>
<td>Petrakov, S.</td>
<td>34</td>
</tr>
<tr>
<td>Petrenko, A. I.</td>
<td>47</td>
</tr>
<tr>
<td>Petru, P.</td>
<td>1</td>
</tr>
<tr>
<td>Petrova, S. N.</td>
<td>1</td>
</tr>
<tr>
<td>Petrovskiy, Boris Vasil'yovich</td>
<td>39</td>
</tr>
<tr>
<td>Petruscu, Ion</td>
<td>19</td>
</tr>
<tr>
<td>Potukhov, D.</td>
<td>6</td>
</tr>
<tr>
<td>Pham, Hung</td>
<td>26</td>
</tr>
<tr>
<td>Pham, Thilom</td>
<td>25</td>
</tr>
<tr>
<td>Pham, Van Dong</td>
<td>28</td>
</tr>
<tr>
<td>Pham, Ianh</td>
<td>30</td>
</tr>
<tr>
<td>Pictet, J. M.</td>
<td>61</td>
</tr>
<tr>
<td>Pighin, K.</td>
<td>54</td>
</tr>
<tr>
<td>Pigorev, B.</td>
<td>33</td>
</tr>
<tr>
<td>Pikitowski, Mieczyslaw</td>
<td>12</td>
</tr>
<tr>
<td>Pinella, Jose A.</td>
<td>31</td>
</tr>
<tr>
<td>Pisarski, Grzegorz</td>
<td>13</td>
</tr>
<tr>
<td>Pistoli, Ciriil</td>
<td>17</td>
</tr>
<tr>
<td>Planul'yes, Kh. Kh.</td>
<td>37</td>
</tr>
<tr>
<td>Pleskurn, Wladyslaw</td>
<td>12</td>
</tr>
<tr>
<td>Plovza, Viliam</td>
<td>1</td>
</tr>
<tr>
<td>Polbedonoustov, V.</td>
<td>1</td>
</tr>
<tr>
<td>Podymakhin, V. N.</td>
<td>40</td>
</tr>
<tr>
<td>Pogorelov, V. V.</td>
<td>48</td>
</tr>
<tr>
<td>Pokrovsky, V. A.</td>
<td>38</td>
</tr>
<tr>
<td>Pokrovsky, A. A.</td>
<td>42</td>
</tr>
<tr>
<td>Polotayev, V.</td>
<td>6</td>
</tr>
<tr>
<td>Polic, Zoran</td>
<td>15</td>
</tr>
<tr>
<td>Polikarpov, G. G.</td>
<td>40</td>
</tr>
<tr>
<td>Pol'kin, Ya. I.</td>
<td>47</td>
</tr>
<tr>
<td>Poltov, V. I.</td>
<td>37</td>
</tr>
<tr>
<td>Poltnikov, A.</td>
<td>33</td>
</tr>
<tr>
<td>Poluboyarinov, B. N.</td>
<td>46</td>
</tr>
<tr>
<td>Polymin, F. P.</td>
<td>6</td>
</tr>
<tr>
<td>Poponchenko, Z. A.</td>
<td>37</td>
</tr>
<tr>
<td>Popescu, V. I.</td>
<td>13</td>
</tr>
<tr>
<td>Popescu, Vasile M.</td>
<td>13</td>
</tr>
<tr>
<td>Popkov, V. L.</td>
<td>38</td>
</tr>
<tr>
<td>Popov, Borislav</td>
<td>9</td>
</tr>
<tr>
<td>Popov, D.</td>
<td>18</td>
</tr>
<tr>
<td>Popov, Dimitr'</td>
<td>9</td>
</tr>
<tr>
<td>Popov, Ivan</td>
<td>5</td>
</tr>
<tr>
<td>Popov, N.</td>
<td>5</td>
</tr>
<tr>
<td>Popov, N. I.</td>
<td>40</td>
</tr>
<tr>
<td>Popov, P. V.</td>
<td>34</td>
</tr>
<tr>
<td>Popov, Yu. V.</td>
<td>48</td>
</tr>
<tr>
<td>Popovic, Ljubinko</td>
<td>15</td>
</tr>
<tr>
<td>Poroshina, Yu. A.</td>
<td>36</td>
</tr>
<tr>
<td>Posch, Martin</td>
<td>18</td>
</tr>
<tr>
<td>Postnikov, A.</td>
<td>33</td>
</tr>
<tr>
<td>Potatyuyova, Yu. A.</td>
<td>34</td>
</tr>
<tr>
<td>Poyarkov, K. M.</td>
<td>3</td>
</tr>
<tr>
<td>Prazdnikov, F. V.</td>
<td>41</td>
</tr>
<tr>
<td>Prelic, Milan</td>
<td>18</td>
</tr>
<tr>
<td>Preobrazhenskiy, H. K.</td>
<td>56</td>
</tr>
<tr>
<td>Prevot, A. R.</td>
<td>44</td>
</tr>
<tr>
<td>Prezyan, I.</td>
<td>2</td>
</tr>
<tr>
<td>Prisakar', I. F.</td>
<td>41</td>
</tr>
<tr>
<td>Probst, A. E.</td>
<td>8</td>
</tr>
<tr>
<td>Promov, Ivan</td>
<td>34</td>
</tr>
<tr>
<td>Propp, M. V.</td>
<td>49</td>
</tr>
<tr>
<td>Prostakova, I. G.</td>
<td>38</td>
</tr>
<tr>
<td>Prowazekki, R.</td>
<td>36</td>
</tr>
<tr>
<td>Prozhogin, N.</td>
<td>7</td>
</tr>
<tr>
<td>Prusovitch, T. O.</td>
<td>41</td>
</tr>
<tr>
<td>Pshinka, I.</td>
<td>40</td>
</tr>
<tr>
<td>Pu, Sheng</td>
<td>24</td>
</tr>
<tr>
<td>Puli, A.</td>
<td>14</td>
</tr>
<tr>
<td>Puttor, P. S.</td>
<td>60</td>
</tr>
<tr>
<td>Pygachev, V. F.</td>
<td>54</td>
</tr>
<tr>
<td>Quang, Thanh</td>
<td>25</td>
</tr>
<tr>
<td>Rachinskiy, F. Yu.</td>
<td>35</td>
</tr>
<tr>
<td>Radchenko, B.</td>
<td>5</td>
</tr>
<tr>
<td>Radlinski, Antoni</td>
<td>12</td>
</tr>
<tr>
<td>Radulov, Remus</td>
<td>14</td>
</tr>
<tr>
<td>Rafaelski, W.</td>
<td>53</td>
</tr>
<tr>
<td>Rajkowicz, Antoni</td>
<td>12</td>
</tr>
<tr>
<td>Rangelov, Novko</td>
<td>8</td>
</tr>
<tr>
<td>Rastrigin, L. A.</td>
<td>62</td>
</tr>
<tr>
<td>Ratusznik, Zygmunt</td>
<td>18</td>
</tr>
<tr>
<td>Ravar, Ion</td>
<td>13, 14</td>
</tr>
<tr>
<td>Rayzer, Yu. P.</td>
<td>59</td>
</tr>
<tr>
<td>Redzic, Enver</td>
<td>17</td>
</tr>
<tr>
<td>Reformatsky, I. A.</td>
<td>35</td>
</tr>
<tr>
<td>Reiss, G.</td>
<td>10, 50</td>
</tr>
<tr>
<td>Rosashki, K. G.</td>
<td>11</td>
</tr>
<tr>
<td>Roshotnyak, Yu. G.</td>
<td>55</td>
</tr>
<tr>
<td>Reuss, W.</td>
<td>61</td>
</tr>
<tr>
<td>Richter, G.</td>
<td>52</td>
</tr>
<tr>
<td>Richter, W.</td>
<td>54</td>
</tr>
<tr>
<td>Rios, Pedro</td>
<td>31</td>
</tr>
<tr>
<td>Riznik, A.</td>
<td>5</td>
</tr>
<tr>
<td>Rocca, Angelo</td>
<td>50</td>
</tr>
<tr>
<td>Ragnon, J.</td>
<td>60</td>
</tr>
</tbody>
</table>

-127-
<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trankvillitati, A.</td>
<td>39</td>
</tr>
<tr>
<td>Trapczuikov, V.</td>
<td>1</td>
</tr>
<tr>
<td>Trenin, V. P.</td>
<td>34</td>
</tr>
<tr>
<td>Vclujov, Lyub.</td>
<td>9</td>
</tr>
<tr>
<td>Velichko, V.</td>
<td>48</td>
</tr>
<tr>
<td>Veljkovic, Vasilije</td>
<td>9</td>
</tr>
<tr>
<td>Velkov, Petur</td>
<td>61</td>
</tr>
<tr>
<td>Verbitskiy, T. Z.</td>
<td>62</td>
</tr>
<tr>
<td>Videnov, Ivyno</td>
<td>13</td>
</tr>
<tr>
<td>Vieru, Mihail</td>
<td>38</td>
</tr>
<tr>
<td>Vilkitskiy, A.</td>
<td>37</td>
</tr>
<tr>
<td>Vinogradov, N. A.</td>
<td>54</td>
</tr>
<tr>
<td>Vinogradova, T. S.</td>
<td>55</td>
</tr>
<tr>
<td>Vire-Tuominen, Mirjam</td>
<td>14</td>
</tr>
<tr>
<td>Vlasova, V. M.</td>
<td>46</td>
</tr>
<tr>
<td>Vo, Nguyen Giap</td>
<td>30</td>
</tr>
<tr>
<td>Vo, Thanh Cong</td>
<td>63</td>
</tr>
<tr>
<td>Vogt's, Jorgen</td>
<td>20</td>
</tr>
<tr>
<td>Voiit, Wilhelm</td>
<td>52</td>
</tr>
<tr>
<td>Volkova, N. M.</td>
<td>55</td>
</tr>
<tr>
<td>Volkov, N. N.</td>
<td>54, 55</td>
</tr>
<tr>
<td>Volkov, Ye.</td>
<td>3</td>
</tr>
<tr>
<td>Volodarski, D.</td>
<td>14</td>
</tr>
<tr>
<td>Volodin, V.</td>
<td>34</td>
</tr>
<tr>
<td>Vosnikova, A. M.</td>
<td>41</td>
</tr>
<tr>
<td>Von der Osten, Wolf</td>
<td>61</td>
</tr>
<tr>
<td>von Fleuder, F.</td>
<td>46</td>
</tr>
<tr>
<td>Voskresenskaya, A. Ya.</td>
<td>40</td>
</tr>
<tr>
<td>Vostrikova, A. M.</td>
<td>41</td>
</tr>
<tr>
<td>Voynikanis-Mirskiy, V. N.</td>
<td>41</td>
</tr>
<tr>
<td>Voyst, S. S.</td>
<td>49</td>
</tr>
<tr>
<td>Vrana, Vladimir</td>
<td>18</td>
</tr>
<tr>
<td>Vu, Huc Phuc</td>
<td>31</td>
</tr>
<tr>
<td>Vu, Khiu</td>
<td>31</td>
</tr>
<tr>
<td>Vu, Van Dann</td>
<td>26</td>
</tr>
<tr>
<td>Vukmanovic-Tempo, Svetozar</td>
<td>19</td>
</tr>
<tr>
<td>Vulls, I. L.</td>
<td>48</td>
</tr>
<tr>
<td>Vulovic, Rutko</td>
<td>15</td>
</tr>
<tr>
<td>Wagner, R.</td>
<td>10</td>
</tr>
<tr>
<td>Waidelich, Wilhelm</td>
<td>61</td>
</tr>
<tr>
<td>Waldon, H.</td>
<td>50</td>
</tr>
<tr>
<td>Walker, Horst</td>
<td>10</td>
</tr>
<tr>
<td>Wang, K'to</td>
<td>24</td>
</tr>
<tr>
<td>Wang, T'ien-chuan</td>
<td>62</td>
</tr>
<tr>
<td>Wang, Yuan</td>
<td>55</td>
</tr>
<tr>
<td>Waniolka, Franciszek</td>
<td>13</td>
</tr>
<tr>
<td>Weber, Berthold C.</td>
<td>58</td>
</tr>
<tr>
<td>Weber, J.</td>
<td>58</td>
</tr>
<tr>
<td>Weickosel, Herman</td>
<td>61</td>
</tr>
<tr>
<td>Weiil, R.</td>
<td>53</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------</td>
<td>------</td>
</tr>
<tr>
<td>Weinstein, P.</td>
<td>44</td>
</tr>
<tr>
<td>Wenger, Pierre</td>
<td>44</td>
</tr>
<tr>
<td>Wertheim, M. G.</td>
<td>60</td>
</tr>
<tr>
<td>Wezler, K.</td>
<td>44</td>
</tr>
<tr>
<td>Wilczynski, Marian</td>
<td>12</td>
</tr>
<tr>
<td>Winter, Erwin</td>
<td>44</td>
</tr>
<tr>
<td>Witt, T.</td>
<td>12</td>
</tr>
<tr>
<td>Wittig, M.</td>
<td>54</td>
</tr>
<tr>
<td>Wojewodka, Czeslaw</td>
<td>10</td>
</tr>
<tr>
<td>Wu, Shih-k'ang</td>
<td>63</td>
</tr>
<tr>
<td>Wyss, Escher</td>
<td>52</td>
</tr>
<tr>
<td>Wyszmirski, Tadousz</td>
<td>12</td>
</tr>
<tr>
<td>Yunus, M.</td>
<td>56</td>
</tr>
<tr>
<td>Yurkevich, I., D.</td>
<td>42</td>
</tr>
<tr>
<td>Yur'yev, E., Yu.</td>
<td>51</td>
</tr>
<tr>
<td>Yusupov, A. A.</td>
<td>37</td>
</tr>
<tr>
<td>Yutsis, A. P.</td>
<td>59</td>
</tr>
</tbody>
</table>

**-Z-**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zabek, Z.</td>
<td>50</td>
</tr>
<tr>
<td>Zaccaria, Guelfo</td>
<td>20</td>
</tr>
<tr>
<td>Zagorodnikov, A. A.</td>
<td>48</td>
</tr>
<tr>
<td>Zahn, H.</td>
<td>57</td>
</tr>
<tr>
<td>Zakharov, V. I.</td>
<td>4, 41</td>
</tr>
<tr>
<td>Zakharov, V. K.</td>
<td>43</td>
</tr>
<tr>
<td>Zakharov, V. N.</td>
<td>4</td>
</tr>
<tr>
<td>Zambrzhitskiy, V. L.</td>
<td>54</td>
</tr>
<tr>
<td>Zasorina, L. N.</td>
<td>54</td>
</tr>
<tr>
<td>Zavistovskiy, V. S.</td>
<td>47</td>
</tr>
<tr>
<td>Zav'yakov, N.</td>
<td>4</td>
</tr>
<tr>
<td>Zav'yakov, Ye. S.</td>
<td>42</td>
</tr>
<tr>
<td>Zaytsev, Yu. P.</td>
<td>40</td>
</tr>
<tr>
<td>Zdanovich, U. G.</td>
<td>47</td>
</tr>
<tr>
<td>Zdravkov, Konstantin</td>
<td>34</td>
</tr>
<tr>
<td>Zemlyakov, B. F.</td>
<td>49</td>
</tr>
<tr>
<td>Zemskov, V. M.</td>
<td>36</td>
</tr>
<tr>
<td>Zenkovitch, B. A.</td>
<td>56</td>
</tr>
<tr>
<td>Zhaksyabov, N.</td>
<td>2</td>
</tr>
<tr>
<td>Zhikov</td>
<td>16</td>
</tr>
<tr>
<td>Zhokhovskiy, M. K.</td>
<td>51</td>
</tr>
<tr>
<td>Zhukov, N. I.</td>
<td>62</td>
</tr>
<tr>
<td>Zhukov, P. A.</td>
<td>1</td>
</tr>
<tr>
<td>Zhukov, Yurly</td>
<td>6</td>
</tr>
<tr>
<td>Zhuravlova, Ye. G.</td>
<td>45</td>
</tr>
<tr>
<td>Zhurbitskiy, Z. I.</td>
<td>33</td>
</tr>
<tr>
<td>Zidurita, Stefan</td>
<td>14</td>
</tr>
<tr>
<td>Ziegler, K.</td>
<td>46, 53</td>
</tr>
<tr>
<td>Ziem, Hansjoachim</td>
<td>10</td>
</tr>
<tr>
<td>Ziyadullayev, S.</td>
<td>3</td>
</tr>
<tr>
<td>Zorin, V. A.</td>
<td>6</td>
</tr>
<tr>
<td>Zorin, Valeriyan</td>
<td>8</td>
</tr>
<tr>
<td>Zukhari', V.</td>
<td>40</td>
</tr>
<tr>
<td>Zusamanovich, G.</td>
<td>14</td>
</tr>
<tr>
<td>Zwaas, Adam</td>
<td>13</td>
</tr>
</tbody>
</table>

---

**X**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xuan, Thuyen</td>
<td>25</td>
</tr>
</tbody>
</table>

**Y**

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yablochkina, N. A.</td>
<td>58</td>
</tr>
<tr>
<td>Yabata, Tamoaki</td>
<td>54</td>
</tr>
<tr>
<td>Yakovichuk, N.</td>
<td>2</td>
</tr>
<tr>
<td>Yakubaytis, E. A.</td>
<td>62</td>
</tr>
<tr>
<td>Yakushovskaya, k. Ye.</td>
<td>47</td>
</tr>
<tr>
<td>Yamamoto, K.</td>
<td>54</td>
</tr>
<tr>
<td>Yanov, litimur</td>
<td>8</td>
</tr>
<tr>
<td>Yang, Ch'um-hau</td>
<td>29</td>
</tr>
<tr>
<td>Yang, Shih-cho</td>
<td>28</td>
</tr>
<tr>
<td>Yang, Tsung-hsu</td>
<td>28</td>
</tr>
<tr>
<td>Yang, Yu-ch'i</td>
<td>52</td>
</tr>
<tr>
<td>Yanina, L. V.</td>
<td>36</td>
</tr>
<tr>
<td>Yanishovskiy, F. V.</td>
<td>34</td>
</tr>
<tr>
<td>Yar'yov, M.</td>
<td>6</td>
</tr>
<tr>
<td>Yatsenko, V.</td>
<td>3</td>
</tr>
<tr>
<td>Yazovskiy, V. I.</td>
<td>35</td>
</tr>
<tr>
<td>Zazykov, S.</td>
<td>2</td>
</tr>
<tr>
<td>Yogorov, M. S.</td>
<td>38</td>
</tr>
<tr>
<td>Yogorov, Yu. V.</td>
<td>55</td>
</tr>
<tr>
<td>Yeoilyun, S. L.</td>
<td>36</td>
</tr>
<tr>
<td>Yerembernlin, R. Ye.</td>
<td>53</td>
</tr>
<tr>
<td>Yevestratev, V.</td>
<td>3</td>
</tr>
<tr>
<td>Yi, Chong-su</td>
<td>27</td>
</tr>
<tr>
<td>Yi, Sang-t'ae</td>
<td>29</td>
</tr>
<tr>
<td>Yi, Su-kun</td>
<td>29</td>
</tr>
<tr>
<td>Yokoyama, T.</td>
<td>54</td>
</tr>
<tr>
<td>You, Fang-hu</td>
<td>43</td>
</tr>
<tr>
<td>Yu, Shun-ling</td>
<td>29</td>
</tr>
<tr>
<td>Yuan, Wan-chung</td>
<td>52</td>
</tr>
<tr>
<td>Yudayev, N. A.</td>
<td>35</td>
</tr>
<tr>
<td>Yunashov, G. S.</td>
<td>38</td>
</tr>
<tr>
<td>Yun, Hyong-sik</td>
<td>25</td>
</tr>
<tr>
<td>Yunger, S. V.</td>
<td>53</td>
</tr>
</tbody>
</table>
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,

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)