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CONSOLIDATED TRANSLATION SURVEY

Number 96

For December 1965

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Foreign Documents Division
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# Consolidated Translation Survey for December 1965

## Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preface</td>
<td>iii</td>
</tr>
<tr>
<td>Requests For Copies</td>
<td>iv</td>
</tr>
<tr>
<td>USSR</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>1</td>
</tr>
<tr>
<td>Political</td>
<td>7</td>
</tr>
<tr>
<td>Military</td>
<td>8</td>
</tr>
<tr>
<td>Geographic</td>
<td>9</td>
</tr>
<tr>
<td>Sociological</td>
<td>10</td>
</tr>
<tr>
<td>Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>11</td>
</tr>
<tr>
<td>Political</td>
<td>16</td>
</tr>
<tr>
<td>Military</td>
<td>17</td>
</tr>
<tr>
<td>Geographic</td>
<td>19</td>
</tr>
<tr>
<td>Sociological</td>
<td>19</td>
</tr>
<tr>
<td>Western Europe</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>19</td>
</tr>
<tr>
<td>Political</td>
<td>19</td>
</tr>
<tr>
<td>Military</td>
<td>21</td>
</tr>
<tr>
<td>Sociological</td>
<td>22</td>
</tr>
<tr>
<td>Africa</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>22</td>
</tr>
<tr>
<td>Political</td>
<td>22</td>
</tr>
<tr>
<td>Military</td>
<td>23</td>
</tr>
<tr>
<td>Sociological</td>
<td>23</td>
</tr>
<tr>
<td>Middle East</td>
<td></td>
</tr>
<tr>
<td>Political</td>
<td>23</td>
</tr>
<tr>
<td>Military</td>
<td>24</td>
</tr>
<tr>
<td>Sociological</td>
<td>24</td>
</tr>
<tr>
<td>Far East</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>24</td>
</tr>
<tr>
<td>Political</td>
<td>26</td>
</tr>
<tr>
<td>Military</td>
<td>28</td>
</tr>
<tr>
<td>Geographic</td>
<td>29</td>
</tr>
<tr>
<td>Sociological</td>
<td>29</td>
</tr>
<tr>
<td>Category</td>
<td>Page</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Latin America</td>
<td></td>
</tr>
<tr>
<td>Economic</td>
<td>30</td>
</tr>
<tr>
<td>Political</td>
<td>31</td>
</tr>
<tr>
<td>Military</td>
<td>31</td>
</tr>
<tr>
<td>Sociological</td>
<td>32</td>
</tr>
<tr>
<td>Scientific</td>
<td></td>
</tr>
<tr>
<td>Aerospace</td>
<td>33</td>
</tr>
<tr>
<td>Agriculture</td>
<td>34</td>
</tr>
<tr>
<td>Biological &amp; Medical Sciences</td>
<td>35</td>
</tr>
<tr>
<td>Chemistry</td>
<td>40</td>
</tr>
<tr>
<td>Earth Sciences &amp; Astronomy</td>
<td>43</td>
</tr>
<tr>
<td>Electronics</td>
<td>48</td>
</tr>
<tr>
<td>Engineering</td>
<td>52</td>
</tr>
<tr>
<td>Fuels &amp; Propulsion</td>
<td>57</td>
</tr>
<tr>
<td>Materials &amp; Metallurgy</td>
<td>58</td>
</tr>
<tr>
<td>Mathematics &amp; Data Processing</td>
<td>65</td>
</tr>
<tr>
<td>Nuclear Sciences &amp; Technology</td>
<td>67</td>
</tr>
<tr>
<td>Physics</td>
<td>69</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>75</td>
</tr>
<tr>
<td>Information on Cover-To-Cover Translations</td>
<td>77</td>
</tr>
<tr>
<td>Index to Authors</td>
<td>159</td>
</tr>
</tbody>
</table>
CONSOLIDATED TRANSLATION SURVEY

PREFACE

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

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

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

An index to authors of items in this issue is provided at the end of the survey.
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Department of Air Force
Assistant Chief of Staff, Intelligence
ATTN: AFCIN-3D
Washington 25, D.C.

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

AI
Advance Information
Frederick A. Praeger, Publishers
111 Fourth Avenue
New York, N.Y. 10003

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

ANL - Argonne National Laboratory, Illinois
(see AEC)

APL - Applied Physics Laboratory (see Navy)
BISI
British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S.W. 1, England

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

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

DIA
Defense Intelligence Agency
Washington, D.C. 20301

FTD - Foreign Technology Division (see AF)

Geochem Soc
Prof. E. Wm. Heinrich
Mineralogical Laboratory
University of Michigan
Ann Arbor, Michigan

GSA
Geological Society of America
Publishing Department
419 West 117th Street
New York 27, New York

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

RUSSIAN, PER, Academy of Sciences of the USSR, Geographic Series, No 2, 1964.


Need for Close Cooperation between Enterprises and Scientists, by P. Kutyunov, 7 pp.

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The Necessity for Unification in the Production of Television Sets, by V. Dukin, 7 pp.
RUSSIAN, PER, Ekonomicheskaya Gazeta, No 34, 6 Sep 1965, pp. 29-30.


Rates of Development in the Large-Scale Chemical Industry, by V. Smirnov, 11 pp.

The Development and Progress of the Krasnoyarsk Combine, by V. Volkov, 5 pp.

RUSSIAN, PER, Fizmaty, No 40, 6 Oct 1965, p. 15.

Usefulness of Metallurgical Enterprises Should Be Based on Scientific Calculations and Thorough Economic Analysis, by N. Charnassov, 6 pp.


RUSSIAN, PER, Ekonomicheskaya Gazeta, No 41, 13 Oct 1965, p. 15.
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JPRS 38932

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JPRS 33171

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JPRS 33010

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JPRS 32995

The System of Saving Under the New Condition, by V. Perevalgin, 7 pp.

JPRS 32926


JPRS 33191


RUSSIAN, np, Ekonomicheskaya Gazeta, No 43, 27 Oct 1965, p. 3
JPRS 33309

Management Problems and Their Solutions at the Mogil' Chemical Fibre Combine, by L. Baranov, 5 pp.

JPRS 33099

Problems of Planned Price Determination, 41 pp.

JPRS 33164

Improvement of Agriculture Through Mechanisation, Standardisation and Unification, by N. Popov, 7 pp.

JPRS 33260


JPRS 33104

Economic Policy, by V. V. Novoshilov, 5 pp.

RUSSIAN, per, Ekonomika i Matematicheskie Metody, Vol I, No 5, Sep-Oct 1965, pp. 641-656
JPRS 32973


RUSSIAN, per, Ekonomika i Matematicheskie Metody, Vol I, No 5, Sep-Oct 1965, pp. 799-811
JPRS 32926

Development of Transportation in Uzbekistan, by D. Mangeidin, 8 pp.

RUSSIAN, per, Ekonomika i Zhizn', No 7, Jul 1965, pp. 12-17.
JPRS 33139

Use of Thermal Wells in Soviet Central Asia, by G. Krasneninikov and E. Monokrovich, 6 pp.

RUSSIAN, per, Ekonomika i Zhizn', No 9, Aug 1965, pp. 65-66.
JPRS 32957

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RUSSIAN, per, Ekonomika i Zhizn', No 9, Sep 1965, pp. 46-48
JPRS 33274
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RUSSIAN, per, Elektrichesostva Stantsii, No 10, Oct 1965, pp 27-30
JPRS 33069

JPRS 33151

Problems of Agricultural Equipment Construction and Supply and Possible Solutions, by A. Zhelevskiy, 5 pp.
RUSSIAN, np, Investiya, 14 Nov 1965, p 2.
JPRS 33190

On the Role of Economic Incentives and Cost Accounting, by V. Dovgopol, 6 pp.
JPRS 33274

Interview with the Deputy Chairman of the State Committee of Automotive, Tractor, and Agricultural Machine-Building, by Nikolay Nikolayevich Takasov, 5 pp.
JPRS 33267

RUSSIAN, np, Kommunist, 30 Oct 1965, p 2
JPRS 33151

Coordination Between the Plan and the Profit and Loss System, by L. Gatchovskiy, 22 pp.
RUSSIAN, per, Kommunist, No 15, Oct 1965, pp 34-48
JPRS 32923

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RUSSIAN, np, Kommunist Tadzhikistana, 23 Sept 1965, p 2
JPRS 33020

The Enterprise and Its Purpose, by M. Kuz'min, 5 pp.
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JPRS 33034

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RUSSIAN, np, Kommunist Tadzhikistana, 9 Oct 1965, p 2
JPRS 33274

Shortcomings in Planning Procedures at the Noril'sk Mining and Metallurgical Combine, by V. Bemnikov, 5 pp.
RUSSIAN, np, Kommunist'skaya Pravda, 7 Oct 1965, p 2
JPRS 33306

Paper Armor, by Ya. Galet'art, 7 pp
RUSSIAN, np, Kommunist'skaya Pravda, 9 Sep 1965, p 2
JPRS 33201

Development of the Tool Industry of the Ukrainian SSR and Plans for Production of Synthetic Diamonds, 5 pp.
RUSSIAN, per, Mashinostroyeniye, No 5, Sept-Oct 1965, pp 3-5.
JPRS 33010

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JPRS 33266

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JPRS 33010

JPRS 33010
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RUSSIAN, per, Mechanizatsiya i Avtomatizatsiya Proizvodstva, No 7, Jul 1965,
pp. 2-6.
JPRS 33001

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Machines, by L. Dobrovol'skii, 20 pp.
RUSSIAN, per, Mechanizatsiya i Avtomatizatsiya Proizvodstva, No 7, Jul 1965,
pp. 7-10.
JPRS 33001

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in Production, by Engr M. M. Tracheva, 9 pp.
RUSSIAN, per, Mechanizatsiya i Avtomatizatsiya Proizvodstva, No 10,
JPRS 33182

Moscow's World Economics and International Relations Discusses Socio-Economic
Differences of Post-Colonial Countries, by V. Kollontay, 15 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdunarodnye otношения, No 10, 1965,
pp. 21-39.
JPRS 33182

RUSSIAN, per, Morskoy Flot, No 9, Sept 1965, pp. 1-2.
JPRS 33139

RUSSIAN, per, Narodnoye Khosyaystvo Kazakhstana, No 8, Aug 1965, pp. 30-37.
JPRS 33144

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RUSSIAN, per, Narodnoye Khosyaystvo Kazakhstana, No 9, Sept 1965, pp. 10-21.
JPRS 33144

RUSSIAN, per, Narodnoye Khosyaystvo Kazakhstana, No 9, Sept 1965, pp. 20-33.
JPRS 33957

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JPRS 33139

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RUSSIAN, per, Nauchno-Tekhnicheskiy Obshchestva SSSR, No 10, Oct 1965, pp. 5-7.
JPRS 33085

Methods to Increase Quality and Life of Machinery and Equipment by G. Khitsch, 5 pp.
RUSSIAN, per, Nauchno-Tekhnicheskiy Obshchestva SSSR, No 10, Oct 1965, pp. 8-10.
JPRS 33085

Electronic Dispatcher, by A. Perei'man, 6 pp.
RUSSIAN, per, Nauka i Tekhnika, Riga, No 8, Aug 1965, pp. 19-21.
JPRS 32797

Determination of Price for Products of Machine Building by A. A. Koshtus,
RUSSIAN, bt, Opredelemya Tsennost na Produktsiyu Mashinostroyeniya, 1964,
pp 1-70.
JPRS/87-4040

"Bourgeois Evolution" of Soviet Economy Refuted, by V. Smolyanskiy, 8 pp.
RUSSIAN, per, Planovoe Khosyaystvo, No 7, Jul 1965, pp. 15-34.
JPRS 32779

The Effectiveness of Structural Changes in the Fuel Balance of the USSR, by G. Rabachev, 10 pp.
RUSSIAN, per, Planovoye Khosyaystvo, No 7, Jul 1965, pp. 31-39.
JPRS 36947

Increasing the Economic Effectiveness of Transportation in the USSR, by L. Chertkov, 12 pp.
RUSSIAN, per, Planovoye Khosyaystvo, No 9, Sept 1965, pp. 1-12.
JPRS 33139
Economic Effectiveness of the Industrial Development of the North, by L. Neyerovich, 5 pp.
RUSSIAN, per, Plamovee khozyaystvo, No 9, Sep 1965, pp 87-92
JPRS 32797

RUSSIAN, per, Politicheskaya samosobranovия, No 10, 1965, pp 92-95.
JPRS 39015

RUSSIAN, np, Pravda, 1 Oct 1965, p 3.
JPRS 33139

Pravda on Improved Economic-Cultural Relations between Italy and Russia, by V. Yermakov, 5 pp.
JPRS 33136

JPRS 33015

JPRS 32870

The Cost of a Worker's Primary Vocational Training, by Ia Lezov, 9 pp.
RUSSIAN, per, Professionalnoe obrazovanie, No 8, Aug 1965, pp 12-23.
JPRS 33071

RUSSIAN, per, Promyshlennost' Armini, No 6, Jun 1965, pp 11-13.
JPRS 32856

Heat Hardening of Steel During Rolling Process in Makeyevka Metallurgical Plant, by A. Zhukov, 5 pp.
RUSSIAN, np, Nabochnaya gazeta, 8 Oct 1965, p 2.
JPRS 32866

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RUSSIAN, per, Sotsialisticheskiy trud, No 7, Jul 1965, pp 71-76.
JPRS 33157

Factors Preventing Improvement in the Quality of Machines, by V. Belotserkov, 5 pp.
RUSSIAN, np, Sel'skaya Zhiz' 11 Aug 1965, p 3.
JPRS 32905

Use and Number of Specialists in Production, by V. Sominetsky, and A. Ivanov, 11 pp.
RUSSIAN, per, Sotsialisticheskiy trud, No 8, Aug 1965, pp 36-42.
JPRS 32871

Planning and Equipment Quality, by V. Frolov, 5 pp.
JPRS 38900

RUSSIAN, np, Sovetskaya Balorussia, 6 Oct 1965, p 2
JPRS 32965

Consumer Industry Improved As a Result of New Management System, by A. Antonov, 5 pp.
RUSSIAN, np, Sovetskaya Kirgizia, 14 Oct 1965, p 2.
JPRS 32800

Wholesale Trade in Sugar, by O. Ridin, 5 pp.
JPRS 33186

RUSSIAN, per, Tekhnika v Sel'skwayne khozyaystve, No 10, Oct 1965, pp 33-37.
JPRS 35905

Walters Agrotural Techniques Kurganskaya Oblast, by Leonid Ivanov, 5 pp.
RUSSIAN, np, Trud, 19 Sept 1965, p 2.
JPRS 32867
JPRS 32999

Status and Prospects of the Mechanization and Automation of Engineering and Administrative Work in Heavy Machine Building, by M. G. Umyagin, 6 pp.
RUSSIAN, per, Vestnik Mashinostroyenia, No. 9, Sept 1965, pp. 73-75.
JPRS 32966

Calculation of Productive Capacity in the USSR, by G. Yaikovich, 8 pp.
RUSSIAN, per, Vestnik Statistiki, No 7, Jul 1965, pp 3-6.
JPRS 32779

Data on Population Movement Within the USSR, by L. Denisova and T. Fedeva, 7 pp.
RUSSIAN, per, Vestnik Statistiki, No 7, Jul 1965, pp 16-21.
JPRS 32779

RUSSIAN, per, Vestnik Statistiki, No 7, Jul 1965, pp 32-41.
JPRS 32871

RUSSIAN, per, Vestnik statistiki, No 9, Sept 1965, pp. 34-55.
JPRS 33187

RUSSIAN, per, Vestnik Vneshnyx Torgovlyv, No 10, Oct 1965, pp. 3-8.
JPRS 33018

Economic Troubles on the Volga-Baltic Canal, 5 pp.
RUSSIAN, per, Yodnvy Transport, 7 Oct 1965, pp. 2.
JPRS 33439

Problems of Methodology in Nuring the Output-Capital Index in Machine Building: As a Statement of a Problem, by S. Klyuchnikov, 18 pp.
RUSSIAN, per, Voprosy ekonomiki, No 3, Mar 1965, pp 28-35.
JPRS 32661

Mutual Interchangeability and National Economic Proportions, by V. Chesupovski, 7 pp.
RUSSIAN, per, Voprosy ekonomiki, No 3, Mar 1965, pp 126-138.
JPRS 32661

RUSSIAN, per, Vestnik Statistiki, No 9, Sept 1965, pp. 73-85.
JPRS 33187

RUSSIAN, per, Voprosy ekonomiki, No 8, Aug 1965, pp 3-14.
JPRS 32661

RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1965, pp 3-15.
JPRS 33010

RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1965, pp 23-36.
JPRS 33044

The Practice of the Transfer of the Sovkhozes to Full Self-Support, by A. Rudykin and V. Nazarenko, 11 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1965, pp 35-41.
JPRS 33044

Certain Problems in the National Utilization of Soviet Labor Resources, by V. Nemchanoko, 8 pp.
RUSSIAN, per, Voprosy ekonomiki, No 9, Sept 1965, pp. 54-61.
JPRS 33187
RUSSIAN, per, Voprosy ekonomiki, No 9, Sept 1965, pp. 89-97.
JPRS 32995

RUSSIAN, per, Voprosy Ekonomiki, No 9, Sep 1965, pp. 147-151.
JPRS 32922

RUSSIAN, per, Voprosy Ekonomiki, No 9, Sept 1965, pp. 151-156.
JPRS 33144

Lag in Production by the Baku Electrical Machinery Plant, by A. Babaryan, et al., 8 pp.
JPRS 32992

RUSSIAN, np, Yebeka, 5 Oct 1965, p. 2.
JPRS 33141

State of Nakhichevan Industry Discussed, by N. Sosonkin, 9 pp.
RUSSIAN, np, Yebeka, 6 and 3 Oct 1965, p. 2.
JPRS 32820

Statue on the Socialist State Industrial Enterprise, 8 pp.
JPRS 33316

JPRS 33316

Strengthen Petro-Chemical Plant Lagging With Deliveries to Builders, 5 pp.
RUSSIAN, np, Yebeka, 2 Nov 1965, p 2.
JPRS 31924

The Present Situation in the Mechanization of Managerial and Engineering Labor and the Outlook for the Near Future, by S. Basanov, 12 pp.
RUSSIAN, per, Vestnik Statistiki, No 8, Aug 1965, pp. 3-11.
JPRS 33034

The Level of World Standards Must Be Reached, by G. Zedginidze, 5 pp.
RUSSIAN, np, Zarya Vostoka, 15 Sept 1965, p. 3.
JPRS 32820

Railway Transportation in the USSR during the First Six Months of 1965, 8 pp.
RUSSIAN, per, Zhelezodorozhny Transport, No 9, Sept 1965, pp. 18-29.
JPRS 33139

Automation and the Scientific Societies, by Dile Serdai, 12 pp.
HUNGARIAN, per, Nerves es Automatika.
JPRS 32679

The Consistent Leninist Policy of the Party, 12 pp.
RUSSIAN, per, Kommunist, No 15, Oct 1965, pp 3-10.
JPRS 32923

RUSSIAN, per, Kommunist, No 15, Oct 1965, pp. 10-33.
JPRS 32690

RUSSIAN, per, Kommunist, No 15, Oct 1965, pp 49-57.
JPRS 32923

RUSSIAN, per, Kommunist, No 15, Oct 1965, pp 58-64.
JPRS 32923
V. I. Lenin on "Leftism" in the Communist Movement, by B. Taam, 8 pp.
RUSSIAN, np, Kommunist Estonii, No 9, Sep 1965, pp 78-83.
JPRS 32899

RUSSIAN, per, Kommunist Estonii, No 9, Sept 1965, pp. 84-91.
JPRS 32899

JPRS 33105

Reaction to the September Plenum of the CC CPSU, 5 pp.
JPRS 33016

RUSSIAN, per, Mirovya ikonmika i mezhdunarodnye otношения, No 10, 1965, pp. 23-27.
JPRS 33028

Study Plans and Teaching Aids for the CPSU Study Year, 8 pp
RUSSIAN, per, Parttynaye zhizn', No 16, Aug 1965, pp 48-52.
JPRS 32949

Pravda Analyzes Role of Worldwide Federation of Democratic Youth, 5 pp.
RUSSIAN, np, Pravda, 10 Nov 1965, p. 4.
JPRS 33136

In Anticipation of the 23rd Congress of the Leninist Party, 6 pp.
JPRS 32807

Stand by Sixth Congress of Portuguese CP against the Fascist Regime, by Alvaro Cunhal, 6 pp.
RUSSIAN, np, Pravda, 11 Nov 1965, p. 3.
JPRS 33136

The International Duty of Communists of All Countries, 8 pp.
JPRS 33145

JPRS 32899

An Appeal on the Rights of Ukrainian Minorities in Communist Areas Outside the Ukrainian SSR, by Roman Rakhamiy, 13 pp.
UKRAINIAN, per, Suchamist, No 10, Oct 1965, pp 93-105
JPRS 33292

The Revolution in Military Affairs and the Spiritual Strength of Troops, by Col. A. Milovidov, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 13, Jul 1965, pp. 8-17.
JPRS 33093

RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 17, Sept 1965, pp. 50-56.
JPRS 33103

Preparing the Youth for Service in the Soviet Armed Forces, by A. Getman, 6 pp.
RUSSIAN, np, Soverskiy Patriot, 26 Sept 1965, p. 2.
JPRS 33049

The Subject of Economic Progress in the USSR Discovered in DOMAAF Courses, by A. Putintsev, 7 pp.
RUSSIAN, np, Soverskiy Patriot, 6 Oct 1965, pp. 2-3.
JPRS 33049

Military

The Revolution in Military Affairs and the Spiritual Strength of Troops, by Col. A. Milovidov, 11 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 13, Jul 1965, pp. 8-17.
JPRS 33093

RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 17, Sept 1965, pp. 50-56.
JPRS 33103

Preparing the Youth for Service in the Soviet Armed Forces, by A. Getman, 6 pp.
RUSSIAN, np, Soverskiy Patriot, 26 Sept 1965, p. 2.
JPRS 33049

The Subject of Economic Progress in the USSR Discovered in DOMAAF Courses, by A. Putintsev, 7 pp.
RUSSIAN, np, Soverskiy Patriot, 6 Oct 1965, pp. 2-3.
JPRS 33049
RUSSIAN, pp, Sowetskiy Patriot, 13 Oct 1965, p. 3. 
JPRS 32949

RUSSIAN, per, Voyennye Istoricheskiy Zhurnal, No 8, Aug 1965, pp. 3-10. 
JPRS 33163

Preparing Youth for the Armed Forces, by M. Stegantsev, 6 pp. 
JPRS 32879

JPRS 32879

For Contusions and Fractures, by O. Markova, 5 pp. 
JPRS 32879

RUSSIAN, pamphlet, Zashchita ot Oruzhiya Massovogo Porazheniya v Sel'skooy Natsosti, 1963, pp. 3-81. 
JPRS 32877

Means of Protection Against Nuclear, Chemical and Bacteriological Weapons, by N. G. Semëniovskiy, 42 pp. 
RUSSIAN, bk, Spособы Зашиты от Ядерного, Химического и Бактериологического Оружия, Moscow, 1963. 
Dept of Navy Tr 4319/G/NI 1032

Torpedoemen, by O. Boronov, 5 pp. 
DIA IN 47-65

Soviet Astronaut Training, by G. Naack. 
GERMAN, per, Berliner Zeitung, 1965, p. 3. 
*FID-TT-65-1885

Geographic

RUSSIAN, rpt, Goroda Saratovskoy Oblasti. 
ACSI 1-6571 
ID 220404665

Methods of Compiling World Agricultural Charts, 8 pp. 
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya No 2, 1964. 
ACSI 1-8462-C 
ID 2204049765

Coordination of Scientific Research, An All-union Conference on the Problems Inherent in the Study and Exploration of the Tayga, by B. N. Likhanov. 8 pp. 
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya No 2, 1964. 
ACSI 1-8462-D 
ID 2204049765

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya No 2, 1964. 
ACSI 1-8462-G 
ID 2204049765

RUSSIAN, pamphlet, Po sledam jzubdayuzhikh rekk, No 8, 1965, 80 pp. 
JPRS 33134
Regulations on Salaries of Managers and Specialists in S. Audiovisual and Other State Agricultural Enterprises, 7 pp. RUSSIAN, per, Bulletin, No 7, 1965, pp 3-5. JPRS 32897

Experiment with a New Bonus System, by A. Zhukov, 5 pp. RUSSIAN, per, Ekonomicheskaya gazeta, No 38, 18 Aug 1965, p 10. JPRS 32897

Intensification of Vocational-Technical Training in the USSR, by A. Bulgakov, 8 pp. RUSSIAN, per, Ekonomicheskaya gazeta, No 35, 1 Sep 1965, p 2. JPRS 32897


The Problem of the Survival Rate of New Settlers and the Methods for Studying It, by Zh. A. Zayouchkova and V. I. Perevedentsev, 8 pp. RUSSIAN, per, Izvestia Sibirskogo otdelenia Akademii nauk SSSR, seriya obshchestvennykh nauk, Vol 5, No 2, 1965, pp 71-77. JPRS 33187

Convention in Realistic Art, by A. Mikhalova, 19 pp. RUSSIAN, per, Kommunist, No 15, Oct 1965, pp 74-85 JPRS 32923


Certain Problems of Ideology and Religion, by N. Morozov, 8 pp. RUSSIAN, per, Narma i Religija, No 10, Oct 1965, pp 9-33 JPRS 33099

USSR Sociological

USSR (Cont.)

Islam and Modern Times, by L. Klimovich, 8 pp. RUSSIAN, per, Narma i Religija, No 10, Oct 1965, pp 15-20 JPRS 33099

Islam Abroad, by M. Andreyev, 7 pp. RUSSIAN, per, Narma i Religija, No 10, Oct 1965, pp 20-31 JPRS 33099

The Master Workman: His Functions, Training Problems and Use in Production, by I. Kuznetsov, 14 pp. RUSSIAN, per, Sotsialisticheskiy trud, Aug 1965, pp 48-57. JPRS 32871

Compensation for Working Under Adverse Conditions, 11 pp. RUSSIAN, per, Sotsialisticheskiy trud, No 8, Aug 1965, pp 129-136. JPRS 32871

Production Specialization and Raising the Effectiveness of Labor, by A. Dobro, 10 pp. RUSSIAN, per, Sotsialisticheskiy trud, No 9, Sept 1965, pp 9-13. JPRS 33187

Wages for Trading and Public Dining Workers, by Yu. Zlokazov, 5 pp. RUSSIAN, per, Sotsialisticheskiy trud, No 9, Sept 1965, pp 139-142. JPRS 32923

Training of Skilled Workers Must Be Intensified, by A. A. Bulgakov, 6 pp. RUSSIAN, per, Trud, 10 Sept 1965, p 2. JPRS 32921

-10-
EASTERN EUROPE

Economic

ALBANIAN, per, Rruga e Partise, No 9, Sep 1965, pp 10-20
JPRS 33293

Some Current Problems of Domestic Trade, by Stefanam ToIkkani, 8 pp.
ALBANIAN, per, Rruga e Partise, No 9, Sep 1965, pp 37-44
JPRS 33293

Albanians Call Yugoslav Economic Reform "Another Step Toward the Restoration of Capitalism", by Frederik Gjerasi, 10 pp.
ALBANIAN, per, Rruga e Partise, No 10, Oct 1965, pp 10-19
JPRS 33028

ALBANIAN, per, Rruga e Partise, No 10, Oct 1965, pp 20-27
JPRS 33095

Plenum of Central Council of Trade Unions Discusses Obstacles to Plan Fulfillment, by Stefi Kotmilo, 6 pp.
ALBANIAN, np, Zeri i Poppullit, 3 Nov 1965, p 2
JPRS 33165

ALBANIAN, np, Zeri i Poppullit, 11 Nov 1965, p 2
JPRS 33095

BULGARIAN, per, Durzinven vestnik, No 66, 2 Nov 1965, pp 1-2
JPRS 33962

Problems in Bulgaria's Water Resources, by Raul Rusev, 5 pp
BULGARIAN, per, Geografiya, No 8, Sep 1965, pp 1-11
JPRS 33078

BULGARIAN, per, Naruchnik na agitators, No 17, Sept 1965, pp 18-27
JPRS 33137

The Kremikovtsi Metallurgical Combine is Assured of Raw Materials, by Engineer Georgi Nikolov Kotov, 8 pp.
BULGARIAN, per, Strieida, No 3, May-June 1965, pp 13-17
JPRS 32779

Installation Work at the "Rama" Thermal Electric Power Plant, by T. Balishki, 10 pp.
BULGARIAN, per, Stritealstvo, No 7, Jul 1965, pp 25-28
JPRS 32779

Notes on the Yugoslav Planning System, by Dr. Milan Mesaric, 18 pp.
CROATIAN, per, Ekonomski pregled, No 7-8, Jul-Aug 1965, pp 503-519
JPRS 33111

Varieties of Grain in Czechoslovakia, by Miloslav Vlach and Antonio Fora, 6 pp.
CZECH, per, Mezinarodni zemedelsky casopis, No 3, Aug 1965, pp 39-42
JPRS 33137

The Organization of Private Boatmen in Germany, by E. L. Banzhaf, 22 pp.
UIA IN 109-65

GERMAN, rpt, Atch to IR 1-634-0192-65 1965, Hamburg, Germany.
UIA IN 112-65

Main Tasks for the Further Development of the Concrete Industry, by G. Kiewiacht, 6 pp.
GERMAN, per, Baumstoffindustrie, No 10, Oct 1965, pp 246-247
JPRS 33129

GERMAN, per, Baumstoffindustrie, No 10, Oct 1965, pp 302-305
JPRS 33129
Eastern Europe
Economic (Contd)

Status and Development of the Stoneware Industry of the GDR, by W. Geoff, 9 pp.
JFRS 33125

Shipping and Techniques, by Hans Heiberling, 37 pp.
GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965.
DIA LN 100-65

GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965.
DIA LN 100-65

Diary of the Shipping Association for the Weser Area and Bremen and Kassel Groups, 37 pp.
GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965.
DIA LN 100-65

Free Trip to Rotterdam for the Barge Hugo Stinnes 12, 37 pp.
GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965, pp 357-375.
DIA LN 100-65

DIA LN 100-65

The Development of Freight Shipping in Inland Shipping After 1945, 37 pp.
GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965, p 382.
DIA LN 100-65

20 Years of Traffic Policy, by Dieter Wolf, 37 pp.
GERMAN, per, Binnenschifffahrts-Nachrichten, No 22, 29 May 1965, pp 385.
DIA LN 100-65

Development of the Polish Chemical Industry, by Jan Krytnkowski, 6 pp.
GERMAN, per, Chemische Technik, No 10, Oct 1965, pp 631-634.
JFRS 33079

GERMAN, per, Deutsche Auswärtswirtschaft, No 9, Sep 1965, pp 417-430.
JFRS 32776

GERMAN, per, Die Deutsche Landwirtschaft, No 9, Sep 65, pp 1107-1118.
JFRS 32666

GERMAN, per, Die Deutsche Landwirtschaft, No 10 Oct 1965, supplement 2 pp.
JFRS 32666

GERMAN, per, Die Deutsche Landwirtschaft, No 11 Nov 1965, supplement, 2 pp.
JFRS 33078

Order Concerning Formation and Utilization of the Technology Fund, 10 pp.
JFRS 32962

Current Tasks of Economic Science, by Dr. Gunter Mittag, 5 pp.
GERMAN, per, Neues Deutschland, 2 Nov 1965, p 4.
JFRS 33001

Continuous Casting Facilities in Poland's Metallurgical Plants, by Ignacy Mysiars, 7 pp.
GERMAN, per, Neues Bautz, No 10, Oct 1965, pp 596-598.
JFRS 32948
Effects of the New Economic Measures on Agriculture, by Christoph Oertmann, 5 pp.
GERMAN, per, Neuer Weg, No 16, Aug 65, pp. 845-847
JPR 32666

West Germany Interpretation of East Germany’s Economic Reform and Rationalization of the Financial System, by Hansalorg Back, 29 pp.
JPR 32862

Internal Waterway Shipping, 40 pp.
GERMAN, per, Verkehr, Ser 1, 1964.
GIA IN 150-65

The Supply of Lignite Briquettes According to Quality Specifications, by Dieter Mattuschka, 5 pp.
GERMAN, per, Die Wirtschaft, No 30, 30 Sep 1965, p 9.
JPR 32773

Information on the Ludwigsfelde Automobile Works, by W. Friedrich, 6 pp.
GERMAN, per, Die Wirtschaft, No 40, 7 Oct 1965, pp. 6-7.
JPR 33194

JPR 32666

Results of the Conference of Experts Concerning Electrification of OSEbDr, by F. G. Narutov, 6 pp.
GERMAN, per, Zeitschrift der Organisation für die Zusammenarbeit der Eisenbahnen OSEbDr, No 4, Jul-Aug 1965, pp. 1-4.
JPR 33174

OSEbDr Committee Reports, 22 pp.
GERMAN, per, Zeitschrift der Organisation für die Zusammenarbeit der Eisenbahnen OSEbDr, No 4, Jul-Aug 1965, pp. 17-26.
JPR 33174

Eastern Europe
Economic (Contd)

Electrification of the East German Railroads, 5 pp.
GERMAN, per, Zeitschrift der Organisation für die Zusammenarbeit der Eisenbahnen OSEbDr, No 4, Jul-Aug 1965, pp. 29-31.
JPR 33174

HUNGARIAN, per, Energieszesztetchnika, No 9, Sept 1965, pp. 401-411.
JPR 33174

Long-Range Development of the Economy and Automation, by Aryad Kiss, 19 pp.
HUNGARIAN, per, Kette Hihely, 9 Oct 1965.
JPR 33209

Economic Programming of the Third Five-Year Plan, by Dr. Gustav Lager, 9 pp.
HUNGARIAN, per, Pirosio, 3 Nov 1965, p. 3.
JPR 33199

The Problem of Interest in Production Specialisation Among the Gadd Countries, by Emil Ben Akos, 22 pp.
HUNGARIAN, per, Kossandegyi Gazdasagi, No 9, Sep 1965, pp. 1013-1029.
JPR 33076

Equilibrium of Purchasing Power and Commodity Supply, by Ferenc Zala, 17 pp.
HUNGARIAN, per, Kosandegyi Gazdasagi, No 10, Oct 1965, pp. 1125-1181.
JPR 33138

JPR 33138

Standard of Living and Economic Growth, by Dr. Lasló Lengyel, 31 pp.
HUNGARIAN, per, Statisztikai Szemle, No 8-9, Aug-Sept 1965, pp. 787-807.
JPR 33195
Eastern Europe
Economic (Contd)

POLISH, per, Goszpolwoda, No 8/9, Aug-Sep 1965, pp 294-296.
JFNS 32775

Water Resources in Poland, by Andrzej Stolarski, 11 pp.
POLISH, per, Goszpolwoda, No 8/9, Aug-Sep 1965, pp 297-300.
JFNS 32775

POLISH, per, Goszpolwoda, No 8/9, Aug-Sep 1965, pp 301-306
JFNS 32775

Certain Aspects of Cooperation Between CMEA Countries During 1964, 9 pp.
JFNS 32775

Metallurgical Value and Domestic Prices of Imported Ores, by Tadeusz Dankowski, 7 pp.
POLISH, per, Hutnik, No 9, Sept 1965, pp 274-277.
JFNS 32775

POLISH, per, Hutnik, No 9, Sept 1965, pp 542-546.
JFNS 32775

Horizontal Milling Machine FEA 50/63, by Janusz Kiepas, 10 pp.
POLISH, per, Hutnik, No 9, Sept 1965, pp 555-558
JFNS 32775

POLISH, per, Nafta, No 7, Jul 1965, pp 202-205.
JFNS 32794

Agricultural Land Usage in Poland, by Czeslaw Parkowski, 8 pp.
POLISH, per, Nowe Drogi, No 11, Nov 1965, pp 91-97.
JFNS 33075

Specialisation in Pump Production by CMEA Countries, by Jan Faron, 10 pp.
JFNS 33194

Consumption of Nonferrous Metals in Poland, by Kazimierz Jaracz, 12 pp.
POLISH, per, Rudy i Metale Nieżelazne, No 8, Aug 1965, pp 447-453.
JFNS 33083

Eastern Europe
Economic (Contd)

JFNS 33045

POLISH, per, Nafta, Year XXI, No 9, Sep 1965, pp 276-279.
JFNS 32775

Decisions on Increasing the Production and Marketability of Grain, 9 pp.
POLISH, per, Nowe Drogi, No 11, Nov 1965, pp 91-97.
JFNS 33075

Consumption of Nonferrous Metals in Poland, by Kazimierz Jaracz, 12 pp.
POLISH, per, Rudy i Metale Nieżelazne, No 8, Aug 1965, pp 447-453.
JFNS 33083

Development of the Fuel and Power Base in Poland, by Jan Mitrega, 8 pp.
POLISH, per, Przegląd Techniki, No 3, 17 Oct 1965, pp 1, 4.
JFNS 32950

Plants for the Tarnobrzeg Sulfur Area, by F. Pipalas, 8 pp.
JPRS 32950

Consumption of Nonferrous Metals in Poland, by Kazimierz Jaracz, 12 pp.
POLISH, per, Rudy i Metale Nieżelazne, No 9, Aug 1965, pp 447-453.
JFNS 33083

New Bulk-Buying Prices of Grains, by Jan Stelmach, 8 pp.
POLISH, per, Zygzak Goszpolwoda, No 45, 7 Nov 1965, p. 6.
JFNS 33137
JPRS 36970

POLISH, per, Sroda Gospodarcza, No 45, 7 Nov 1965, pp. 1, 2.
JPRS 33348

POLISH, per, Sroda Gospodarcza, No 46, 14 Nov 1965, pp. 1, 5, 7.
JPRS 33395

ROMANIAN, per, Finante si Credit, Vol 10, No 9, Sept 1965, pp. 13-41.
JPRS 33948

JPRS 33111

Progress of the Chemical Industry During the Five-Year Plan, by Mihail Floreaucu, 17 pp.
ROMANIAN, per, Probleme economice, No 9, Sep 1965, pp 19-33.
JPRS 36775

ROMANIAN, per, Probleme Economice, No 9, Sep 1965, pp 65-76.
JPRS 36866

JPRS 33111

ROMANIAN, per, Probleme economice, No 10, Oct 1965, pp 70-83.
JPRS 33112

JPRS 36950

Economic and Organisational Consolidation of Agricultural Production Cooperatives, by M. Bulgaru, 14 pp.
JPRS 33078

ROMANIAN, per, Vista Economica, No 22, Oct 1965, pp. 3-4.
JPRS 33946

SERBIAN, per, Kemija u Industriji, JPRS 33112, No 11, Nov 1966, pp 2025-2027.
JPRS 33112

JPRS 33276

SERBO-CROATIAN, per, Kemija u Industriji, Jun 1965, pp 464-465.
JPRS 36948
JPRS 33130

JPRS 33139

The Temporary Employment of Yugoslav Citizens Abroad, by Dr Miloje Mikolic, 12 pp.
SERBO-CROATIAN, per, Priroda i raspad, 29 Nov 1965, pp 5-6
JPRS 33276

ALBANIAN, per, Ilmuara e Partise, No 9, Sep 1965, pp 30-36
JPRS 32983

BULGARIAN, per, Novo vreme, No 10, Oct 1965, pp. 3-12.
JPRS 33110

JPRS 33110

BULGARIAN, per, Novo vreme, No 10, Oct 1965, pp. 95-107.
JPRS 33110

Bulgarian CP Speaks on the Struggle Against Imperialism and the Unity of the Communist Movement, by Ivanov, 10 pp.
BULGARIAN, per, Rabotdchasko Delo, 6 Oct 1965, pp 2 and 3.
JPRS 32873

ACSI 1-8495
ID 2204030465

They Anchored in Freedom, 37 pp.
GERMAN, per, Binnenschiffahrts-Nachrichten, No 22, 29 May 1965, pp 380.
DIA IN 100-65

Friedrich Ziebell Saved Bremen's Port, 37 pp.
GERMAN, per, Binnenschiffahrts-Nachrichten, No 22, 29 May 1965, 382 p.
DIA IN 100-65

Politically Burdened Elbe Shipping, by Helmut Renius, 5 pp.
GERMAN, per, Wirtschafts-Correspondent, No 18, 6 May 1965, pp 64-68.
DIA LN 128-65

The GER --- Should It Be Simply Written Off, by Martin Jaanlehe, 9 pp.
GERMAN, per, Die Zeit, 1 Oct 1965, p 3
JPRS 32924

Excerpts from Stefan Heym Novel, by Stefan Heym, 5 pp.
GERMAN, per, Die Zeit, 5 Nov 1965, p 5.
JPRS 36958

"This Is What I Saw in Vietnam --- "Into War --- with a Timetable"", by Ervin Beti, BULGARIAN, per Neti Birjan, 9 Oct 1965 - 19 Oct 1965
JPRS 32,870
Marxism and Peaceful Coexistence, by Jerzy J. Wiatr, 8 pp.
POLISH, per, Polityka, No 45, 6 Nov 1965, p. 9.
JPRN 33110

ROMANIAN, per, Justitia Nova, Vol 21, No 8, 1965, pp. 5-10.
JPRN 39990

Militar

DUTCH, per, Nederlands Militair Geneeskundig Tijdschrift, No 2, 1965, pp 44-56.
DIA IN 111-65

DUTCH, per, Nederlands Militair Geneeskundig Tijdschrift, No 2, 1965, pp 61-68.
DIA IN 111-65

GERMAN, per, Marine-Rundschau, No 6, 1965, pp 123-240.
Dept of Navy Tr 4364/ONI 2013

GERMAN, per, Soldat und Technik, Sep 1964, pp 509-513.
Dept of Navy Tr 4327/ONI 2002

Mission of the Antitank Unit 106.cm r PAK, by Dieter Deller, 18 pp.
GERMAN, per, Truppenkund, No 1, 1964, pp 18-23.
A/31 I-7954
ID 2204037765

POLISH, PER, Przegląd Wojsk Ladowych, No 12, 1964, pp 5-10.
DIA IN 295-D
ID 28780193-65

Intervention by Militia in Dealing With Soldiers, by Aleksander Saulowicz, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 11-18.
DIA IN 295-D
ID 28780193-65

Commanding the Subunits in Enemy Rear, by K. D.; N. S., 12 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 19-29.
DIA IN 295-D
ID 28780193-65

POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 30-38.
DIA IN 295-D
ID 28780193-65

Tank Company Operating in Independent Direction, by Stanislaw Masiarczyk, 10 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 39-49.
DIA IN 295-D
ID 28780193-65

Tactical Exercise Of The Anti-Aircraft Artillery Gun Crew,by Alojzy Chmiel
6 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 50-54.
DIA IN 295-D
ID 28780193-65

Monitoring of Contamination and Exposure in Setting up a Crossing Point, by Jan Jezierski, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 58-64.
DIA IN 295-D
ID 28780193-65
How to Teach Accurate Firing, by
Mieczyslaw Rydzewski, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 67-73
DIA IN 285-D
ID 28780193-65

Training Can be Cheaper and Better,
by Edward Wierzorek, 9 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 74-82
DIA IN 285-D
ID 28780193-65

The Neutralization of the Enemy March
Column With the Fire of one Artillery Battery,
by Bazyli Lawcuk, 5 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 83-88
DIA IN 285-D
ID 28780193-65

Training of Personnel for the Operation of
the EN-61 Range Finder, by Antoni Guzinski, 9 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 89-95
DIA IN 285-D
ID 28780193-65

Quick Tying in Method for the Combat
Formation in the Artillery Division (Battery),
by Roman Ogrodnik, 5 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 96-100
DIA IN 285-D
ID 28780193-65

Need to Examine Teaching Methods in Military
Courses, by Edmund Garlicki, Jerzy Szeftaniak, 9 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 101-108
DIA IN 285-D
ID 28780193-65

Preparation or Graphic Documents by
Combat Engineer Subunit Commanders,
by Tadeusz Gwardak, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 109-117
DIA IN 285-D
ID 28780193-65

Combat Capabilities of a Company and Its Role in
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 140-145
DIA IN 285-D
ID 28780193-65

Artillery Insuring the Tactical Air Landing,
by Franciszek Drzedzic, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 146-151
DIA IN 285-D
ID 28780193-65

Command and Communication in Motorized Infantry
Units, by V. Khoklov, 8 pp.
POLISH, per, Przegląd Wojsk Ladowych, No 12, 1964, pp 152-157
DIA IN 285-D
ID 28780193-65

Group Flights of Helicopters in Assault
Landing of Forces,
POLISH, per, Wojskowy Przeglad Lotniczy, No 3, Mar 1965, pp 8-14
DIA IN 150-65
ID 2
Eastern Europe

**Geographic**


*Dept of Navy/APL No J-686

Humedoara Region -- A Geographic Description, by I. S. Gruescu, b. Vulca, 16 pp.

ROMANIAN, per, Natura, Seria Geografie-Geolgie, No 4, 1965, pp 15-28

**Sociological**


ALBANIAN, np, Bashkimi, 28 Oct 1965, pp. 1, 2, 5, 6.

JPRS 33004


POLISH, per, Glos Nauczycielski, No 45, 7 Nov 1965, pp 5-8

JPRS 33275

Changes in Structure of Working Force Brought About by Industrialization, by Iliu Mihalache, 6 pp.

ROMANIAN, per, Contemporanul, No 42(992), 15 Oct 1965, pp 1, 8-9

JPRS 33275

Schools for Skilled Workers, by M. Zivkovic, 12 pp.

SERBIAN, per, Socijina Politika, No 7-8, Jul-Aug 1965, pp. 743-750.

JPRS 32967


SERBIAN-CROATIAN, per, Socijalizam, Vol 8, No 7-8, Jul-Aug 1965, pp. 1035-1053.

JPRS 32967

**Economic**

The Rhine Canalization,

DUTCH, per, Publikatie, No 275, DIA IN 175-65 ID 2864013265

Germany's Inland Navigation, 5 pp.

FRENCH, per, Revue de la Navigation Intérieure et Rhénane, No 3, 10 Feb 1965, pp 96-97.

DIA IN 183-65

The Canalization of the Saar River, 5 pp.

FRENCH, per, Revue de la Navigation Intérieure et Rhénane, No 3, 10 Feb 1965, pp 97.

DIA IN 183-65

Activity of the Secretariat of Communications, by Secretary of State for Communications, 6 pp.

SPANISH, per, Postas Argentinas, No 303, pp 13-16.

DIA IN 175-65

**Political**

Jespersen's Speech to 22nd Danish CP Congress, 8 pp.

DANISH, np, Land og Folk, 6 Nov 1965, pp. 6-7.

JPRS 32961

Danish CP Issues Political Manifesto at 22nd Congress, 7 pp.

DANISH, np, Land og Folk, 14-15 Nov 1965, pp. 7-8.

JPRS 33026

Communist Party Will Take Initiative in Socialist Movement Says Barendregt, 10 pp.

DUTCH, per, De Brug, No 11, 1 May 1965, pp. 4-5; No. 12, 22 May 1965, pp. 4-5.

JPRS 32878
Western Europe
Political (Contd)

Ville Pessi: Theoretical, Practical Discussion Necessary for Progress of Socialism, by Ville Pessi, 6 pp.
JPRS 32878

Finnish CP Central Committee Clarifies Concept of Role of the Workers, 8 pp.
JPRS 32961

Saarinen Discusses Central Questions of Socialist Renewal in Finland, by Arne
Saarinen, 5 pp.
FINNISH, per, Kommunisti, No 10, 1965, pp. 338-341.
JPRS 32878

Cooperation between Christians and Communists Discussed by French CP Theoretical Journal,
by Andre Moine, 10 pp.
FRENCH, per, Cahiers du Communiste, Vol 41, No 10, Oct 1965, pp. 142-149.
JPRS 32850

FRANCE, per, Le Drapeau Rouge, 12 Nov 1965, pp. 4-5.
JPRS 32086

French CP Secretary-General Explains Support of Mitterand Candidacy, by Claude Gatti, 6 pp.
JPRS 32673

La Monde Discusses French-Russian Relations, by Andre Fontaine, 17 pp.
FRANCE, np, Le Monde, 17,18 & 19 Nov 1965, pp 1,2, 8,16
JPRS 33291

FRANCE, per, La Voix du Peuple, No 44, 29 Oct 1965, p. 4.
JPRS 33026

Western Europe
Political (Contd)

Italian Catholic Journal Discusses Conditions for Dialogue of Communists and
Catholics, by Ulises Alcario Floridi, 8, 9 pp.
ITALIAN, per, La Civita Catollca, Vol II, No 8, 17 Apr 1965.
JPRS 32873

The Diary of Togliatti (1944-1945), by Massimo Caprara, 21 pp.
ITALIAN, per, Il Contemporaneo, No 8, Aug 1965, pp. 5-8.
JPRS 32686

A Debt of Gratitude, by Ernst Fischer, 6 pp.
ITALIAN, per, Il Contemporaneo, No 9, Aug 1965, pp. 9 & 10
JPRS 32686

First Formulation of Polycentrism in Moscow in 1943, by Veljko Vlahovic, 5 pp.
ITALIAN, per, Il Contemporaneo, No 8, Aug 1965, pp. 11-12.
JPRS 32686

Unpublished Letter by Togliatti on the Rearmament of Nazi Germany, 6 pp.
ITALIAN, per, Il Contemporaneo, No 8, Aug 1965, pp. 13, 15.
JPRS 32686

The Principal Enemy in 1935, by Franco Pieri, 8 pp.
ITALIAN, per, Il Contemporaneo, No 8, Aug 1965, pp. 13, 15, 16 and 17.
JPRS 32686

Roman History As Taught in Fascist Schools, by Manuccio Bianchi Bandinelli, 5 pp.
ITALIAN, per, Il Contemporaneo, No 8, Aug 1965, pp. 17-18.
JPRS 32886

Palmiro Togliatti and the History of Italy, by Ernesto Ragionieri, 12 pp.
ITALIAN, per, Il Contemporaneo, Aug 1965, pp. 24-27.
JPRS 32886

-30-
Western Europe
Political (Contd)

Lam's Speech to the Executive Committee of the CGIL, 1 pp.
ITALIAN, per, Rassegna Sindacale, No 73, 17 Oct 65, pp 81-83.
JPRH 32876 4

Fox's Speech at the WFTU Congress, 6 pp.
ITALIAN, per, Rassegna Sindacale, No 72, 17 Oct 65, pp 24-25.
JPRH 32876.

He Worked to the Last, 7 pp.
ITALIAN, per, Rinascita, No 34, 26 Aug 1965, pp 3-4.
JPRH 32886

JPRH 32886

Rossana Rossanda Answers Gruppi on Marx' Theory on History, 10 pp.
ITALIAN, np, Rinascita, No 45, 13 Nov 1965, pp 82-93.
JPRH 33435

Italy's Report on the WFTU Congress, by Fidia Barsano, 6 pp.
ITALIAN, per, Tempi Moderni, No 22, Jul-Sep 65, pp 161-164.
JPRH 32876

CGIL Votes to Remain in the WFTU, 5 pp.
ITALIAN, np, L'Unita, 2 Oct 1965, pp 1,10.
JPRH 32876

Excerpts from Luigi Longo's Pre-Congressional Speech, 17 pp.
ITALIAN, np, L'Unita, 27 Oct 1965, pp 1, 10, 11, 12.
JPRH 33035

The PCI's Pre-Congressional Debate, 32 pp.
JPRH 33035

Western Europe
Political (Contd)

Longo's Final Speech at the Pre-Congressional Meeting of the PCI, 6 pp.
JPRH 33035

NORWEGIAN, per Offiserabladeret, No 4, Apr 1965, Oslo, Norway, pp148-165.
DIA LN 44-65

Creative Peace and Fruitful Labor; a Message to the Ecuadorian Nation.
DIA LN-12-65 ID 2828006965

Holmberg Denies Charges of Factionalism, by Nils Holmberg, 10 pp.
SWEDISH, per, Marxisttisk Forum, supplement to No 2, 1965, pp 1-10.
JPRH 32899

Military

Trans-Equatorial Communications Agency (A.T.E.C.)
DIA LN 180-65 ID 2828018644

In an Exclusive Statement of Brother Boumediene to El-Djeich "The Popular Force, the A. N. P. is a Dynamic Element of the Revolution," 5 pp.
FRENCH, per, El-Djeich, No 19, Oct 1964, pp 1-2. Arch FS IN 2-862-0228-64
DIA LN 161-65

FRENCH, rpt, L'Espionage a L'Ere Atomique: Theme de roman Ou Realite?
ACST T-8709 ID 2204057965

-21-
Western Europe
Military (Contd)

The Military Operation in Viet Nam, by,
Fausto Maria Bortolani
ITALIAN, rpt, Le Operazioni Militari Nel Vietnam,
9 October 1965.
DIA IN 126-65
ID 289901665

Attack With Force! by Claus Romo von
Glassenapp, 7 pp.
PORKUGUESE, per, Boletin do Clube Naval,
No 182, 2nd Quarter, 1965, pp 135-143.
DIA LN 176-65

SPANISH, rpt, Código de Justicia Militar,
ACSI I-7612
ID 2204027565-V

Sociological

Socialist Trade Unionists for Withdrawal from
WFTU, 8 pp.
ITALIAN, np, Avanti!, 2 Oct 65, pp 1, 7
JPRS 32976

AFRICA

Economic

How West Africa Can Survive, by Samir Amin,
5 pp.
FRENCH, per, Africa, Vol 7, No 36, Jun-Jul
1965, pp 9, 11-12
JPRS 32977

Progress in the Industrialization of Algeria,
5 pp.
FRENCH, per, Le Monde Diplomatique, Vol 12,
JPRS 32934

Africa
Economic (Contd)

Recovery of Algerian Mining Industry, 6 pp.
FRENCH, per, Le Monde Diplomatique, Vol 12,
No 139, 20 Oct 1965, p 17.
JPRS 32934

FRENCH, per, Présence Africain, No 55,
3rd Quarter 1965, pp 135-144
JPRS 33984

The Role of the Wizard Among the Demba,
by
Father Ivo Cioceoci, 9 pp.
ITALIAN, per, Eritrea, 10 Oct 1965, p 24
JPRS 32977

Political

Report on the Operations of the Pasteur
Institute of Madegascar in 1963,
111 pp.
FRENCH, rpt, 1964, Tambarive, Madegascar,
DIA LN 21-65

AND Achievements and Modernization, by
Office of the Political Commissariat,
40 pp.
FRENCH, rpt, July 1964, Algers, Algeria,
Arch to IR 2-802-0171-64.
DIA LN 16-64

Sudan -- A Priority Problem, by Jean-Louis
Leterre, 5 pp.
FRENCH, per, Afrique-Express, Vol 5, No 103,
JPRS 38934

KHNP Secretary-General Denies Statements of
Tandeng Muna, by Nzo Enah-Nyahay, 5 pp.
FRENCH, np, L'Effort Camerounais, Vol 11,
JPRS 32009

Counterrevolution in Algeria, by Robert
Lemasseon, 5 pp.
FRENCH, per, L'Internationale, No 37, Oct
1965, pp 4-5.
JPRS 32934
Congo (Leopoldville), by Bernard Nairewanga Libiku, 8 pp.
FRENCH, per, Recherches Africaines, Vol. 7, No 269, 22 Sep 1965, pp 6-9
JPRS 32877

The United States and Black Africa in the Light of the Withdrawal of the U. S. Ambassador from Brazzaville, by J. C. Froelch, 18 pp.
JPRS 33165

ITALIAN, per, Africa, Vol 20, No 3, Sep 1965, pp 312-318
JPRS 33062

Activities of French Volunteers for Progress in Dahomey, 6 pp.
FRENCH, per, Bulletin Quotidien d'Information, 2 Nov 1965, pp 1-3 & 3 Nov 1965, pp 3-4
JPRS 33084

Technical Assistance of the Air Force to the Congo, by Amilpress, 6 pp.
FRENCH, per, Nos Forces, 15-21 Jul 1965,
DIA IN 206-05

FRENCH, per, Horizons, 12, 14 and 15 Oct, pp 4, 5, and 6, respectively.
JPRS 32816

The Land and the People of the Kivu Area of Congo (Leopoldville), by Henri Nicolai, 26 pp.
JPRS 32934

FRENCH, per, Pensee, Vol 75, No 706, Apr-Jun 1965, pp 155-169
JPRS 33062

The Somali Government Via-a-Via the Nomads, by L. Wueste, 7 pp.
GERMAN, per, Afrika Heute, No 18, 1 Oct 1965, pp 243-256.
JPRS 32954

MIDDLE EAST

Greek Left Shirk's Duty to Unite Masses Against Papandreo, 24 pp.
GREEK, per, Anamnisi, Nos 10-11, Jul-Aug 1965, pp 1-33
JPRS 33080

Greek Left Wavers in its Struggle Against Imperialism, 17 pp.
GREEK, per, Anamnisi, Nos 10-11, Jul-Aug 1965, pp 32-40
JPRS 33090

KUNDA, per, Kol Base, 34 Sep 1965, pp 8,9.
JPRS 30599
Middle East

Political (Contd.)

A Talk with Dr Zibanskis, Rescuer of Jews from Poland, by Yaron Becker, 7 pp.
HEBREW, mp, Kol Ha'am, 22 Oct 1965, p 3, 6
JPRS 33169

A Letter to A Member of Kahan, 5 pp.
HEBREW, mp, Kol Ha'am, 29 Oct 1965, p 2, 7
JPRS 33169

"Kadesh" Operation in a New Light, by Yitehar Portnoy, 7 pp.
JPRS 33169

Military

Profile of Colonel Erik Sharon, by Yadin Dudai, 18 pp.
HEBREW, mp, Haolim, 13 Oct 1965, pp. 8-11.
JPRS 33169

Interview with Armor Commander, by Yadin Dudai, 6 pp.
JPRS 33169

Sociological

Strengthening the Authority of the Working People's Forces, 6 pp.
ARABIC, mp, Al-Talash, Oct 1965, pp 5-9
JPRS 33180

FAR EAST

Economic

Agricultural High Yield in Irrigated Areas, by Yuan Long, 5 pp.
JPRS 33116

Reduction of Irrigation and Drainage Costs by Wang Lin-an, 8 pp.
JPRS 33116

Improve Charting in Order to Set Ships on the Right Course, 5 pp.
JPRS 33156

Knowledge Grows from Practice, by Kao Chih-sheng (7559 1207 24594), 12 pp.
JPRS 33156

The Formation and Development of Chinghai Lake, by Chen Chao-tao & Huang Ti-fan, 37 pp.
CHINESE, per, Ti-li Han-pao, Vol 30, No 3, 1964, pp 214-220
JPRS 33111

CHINESE, per, Ti-li Han-pao, Vol 30, No 3, 1964, pp 234-246
JPRS 33111

A Preliminary Analysis of the Agro-Climate of the Chining Region, Western Shanhai, by Chen Ning-jung, 12 pp.
CHINESE, per, Ti-li Han-pao, Vol 30, No 3, 1964, pp 248-253
JPRS 33111
Far East
Economic (Contd)

On Historical Droughts in Honan Province, by Hsiao Teng-tsun & Feng Yang-te'ao, 32 pp.
CHINESE, per, Zh-14 Nanah-nan, Vol 30, No 3, 1964, pp 259-272
JPRS 33311

Intensify the Revolutionary Offensive on the Clothing Level, by Rng. Sakizuma, 13 pp.
INDONESIAN, rp, Marijan Pakkat, 20 and 21 Sep 1965, p 3.
JPRS 32851

Handbook of Ports of Shelter (for Small Ships) (2) Northeastern Part of North Kyushu, (Including Bungo Channel)
JAPANESE, rpt, Oct 1964.
DIA LI 241
ID 582018265.

The Developing Sugar Refining Industry, by Yang Chang-jen, 6 pp.
JAPANESE, per, Jimnin Chugoku, No 10, 5 Oct 1965, pp 70-79.
JPRS 33140

KOREAN, per, Ko'noch'uk kwa Ko'na-sol, Aug 1965, pp 26-37.
JPRS 33160

KOREAN, per, Kyongje Yongku, No 3, 1965, pp 3-11.
JPRS 33047

JPRS 33047

JPRS 33047

MONGOLIAN, per, Edyn Desag, Eriyin Amudal, No 4, Aug 1965, pp 6-12.
JPRS 33951

The Local Revenue Plans Must Be Fulfilled Uniformly, by N. Ochirbal, 6 pp.
MONGOLIAN, per, Edyn Desag, Eriyin Amudal, No 4, Aug 1965, pp 16-20.
JPRS 33951

MONGOLIAN, per, Edyn Desag, Eriyin Amudal, No 4, Aug 1965, pp 21-25.
JPRS 33951

N. Bassanjab Discusses A Need for Thrifty and Effective Use of the Budget Funds, by N. Bassanjab, 5 pp.
MONGOLIAN, per, Edyn Desag, Eriyin Amudal, No 4, Aug 1965, pp 26-29.
JPRS 33951

From the Practical Experience in Fattening the Cattle on Pastures under the Conditions Prevailing in the Mongolian People's Republic, by D. Gonchig, 8 pp.
MONGOLIAN, per, Edyn Desag, Eriyin Amudal, No 4, Aug 1965, pp 30-35.
JPRS 33951

JPRS 33951

Industrial Accounting and Cost Accounting Must Be Improved, by B. Jamsan, 6 pp.
MONGOLIAN, per, Hovyn Asual, No 7, Jul 1965, pp 25-29.
JPRS 33650

Pasture Resources and Opportunities to Use Them Properly, by Geobotanists G. Erdenebaj and D. Bandragch, 5 pp.
MONGOLIAN, per, Hovyn Asual, No 7, Jul 1965, pp 30-33.
JPRS 33650

-25-
Far East Economic (Contd)

Far East Economic (Contd)

JPRS 33105

The Technical-Material Base of Agriculture is Being Expanded, 9 pp.
JPRS 33105

JPRS 33037

Pham Hung on Economic Construction and Development in the New Situation, 26 pp.
VIETNAMESE, ed. Hoa Tap, No 11, Nov 1965, pp 1-13
JPRS 33317

Winter-Spring Production Season, 9 pp.
VIETNAMESE, ed. Hoa Tap, No 11, Nov 1965, pp 14-18
JPRS 33317

Developing Local Industry, by Nguyen Chanh, 13 pp.
VIETNAMESE, ed. Hoa Tap, No 11, Nov 1965, pp 55-62
JPRS 33317

Achievements in Ten Years of Socialist Industrialization, by Le Vinh, 12 pp.
JPRS 332807

The Effectiveness of Investment in Capital Construction, by Bui Van Cac, 18 pp.
VIETNAMESE, ed. Nghi, Cau Kinh Te, 23 Aug 1965, pp 27-35
JPRS 332807

Enterprise Organization and Management, by Le Ilong Tam, 13 pp.
VIETNAMESE, ed. Nghi, Cau Kinh Te, 28 Aug 1965, pp 41-47
JPRS 32807

Use of Labor in State Controlled Economy, by Tran Dang Van, 7 pp.
VIETNAMESE, ed. Nghi, Cau Kinh Te, 28 Aug 1965, pp 48-51
JPRS 32807

Duckweed for the Winter-Spring Crop, by Truong Quoc Thai, 6 pp.
VIETNAMESE, ed. Khan, Dan, 16 Oct 1965, p 2
JPRS 32974

Push This Winter-Spring Crop, 6 pp.
VIETNAMESE, ed. Khan, Dan, 18 Oct 1965, p 2
JPRS 32974

Pham Hung on Economic Construction and Development in the New Situation, 26 pp.
JPRS 332974

Production Direction for the Mountainous Regions, by Nguyen van Man, 6 pp.
VIETNAMESE, ed. Khan, Dan, 1 Nov 1965, p 2
JPRS 33176

RUSSIAN, ed. Literaturnaya gazeta, 28 Oct 1965, p 4
JPRS 32804

CHINESE, ed. Che-chiang Ciao-yu, No 4, Apr 1965, pp 13, 14
JPRS 33142
Far East
Political (Contd)

An Educational Theory Mislabeled Marxist, by Hsu Tung-shih (6079 1350 1395), 8 pp.
CHINESE, per, Chia-chung Chiao-yu, No 4, Apr 1965, pp. 18-23.
JPRS 33142

HEBREW, sp, Hov-Hama, 29 Oct 1965, pp 3,6
JPRS 33250

JPRS 33041

The Victory of Our Party's Foreign Policy, by Kim Yong-nam, 11 pp.
KOREAN, per, Kullola, No 18, 20 Sep 1965, pp 2-9
JPRS 33072

The Certain Victory of our People Under The Leadership of the Korean Workers Party, 6 pp.
KOREAN, per, Kullola, Vol 19, 5 Oct 1965, pp 2-6
JPRS 33123

Subjective Thought is Independent Communist Thought, by Kim Chon Kyun, 20 pp.
KOREAN, pt, Kullola, No 19, 5 Oct 1965, pp 7-21
JPRS 33123

KOREAN, per, Kullola, No 19, 5 Oct 1965, pp 33-40
JPRS 33123

The Ch'o'ilima Movement is the Embodiment of Our People's Revolutionary Will, by No P'ul-bun, 14 pp.
KOREAN, per, Kullola, No 19, 5 Oct 1965, pp 41-51
JPRS 33123

Far East
Political (Contd)

KOREAN, per, Kullola, Vol 19, 5 Oct 1965, pp 52-64
JPRS 33123

A Museum is a Center of Propaganda Workshops, by Sh. Maghan, 6 pp.
MONGOLIAN, per, Nasyn Am'dral, No 7, pp 13-29
JPRS 33650

Role of Party Organizations in the Selection and Distribution of Cadres, by M. Yorbantsuren, 6 pp.
MONGOLIAN, per, Nasyn Am'dral, No 7, Jul 1965, pp 18-34
JPRS 33650

We Are Determined to Bring to Reality The Dream of Nguyen Du to Liberate the Oppressed People, by Ha Huy Giai, 11 pp.
VIETNAMESE, per, Hoa Tap, No 11, Nov 1965, pp 19-24
JPRS 33317

VIETNAMESE, per, Hoa Tap, No 11, Nov 1965, pp 39-48
JPRS 33317

The "Three Builds, Three Anti's" Movement, by Nguyen Van Thao, 13 pp.
VIETNAMESE, per, Hoa Tap, No 11, Nov 1965, pp 49-54
JPRS 33317

Vinh Linh is Eternally Grateful to the Party, by No St Than, 12 pp.
VIETNAMESE, per, Hoa Tap, No 11, Nov 1965, pp 63-67, 75
JPRS 33317

The Heroic City of Vinh Continues to Fight and to Win, by Phu Hai, 9 pp.
VIETNAMESE, per, Hoa Tap, No 11, Nov 1965, pp 68-72, 79
JPRS 33317

-27-
Far East
Political (Contd)

VIETNAMESE, np, Hanoi, 11, Nov 1965, pp 72-75
JPBS 33327

Cabot Lodge’s “Extensive Social Reform Progress” Cannot Save the US from being Defeated in South Vietnam, by Doong Thi, 5 pp.
VIETNAMESE, np, Hanoi, 11, Nov 1965, pp 76-79
JPBS 33337

Hanoi Block 30 of Dong Da District Pushes Alertness, by Tran Dan, 8 pp.
VIETNAMESE, np, Nhan Dan, 18 Oct 1965, p. 3
JPBS 33006

VIETNAMESE, np, Nhan Dan, 31 Oct 1965, pp. 2-3
JPBS 33147

Building “Four-Good” Sections and Bases in the Mountain Regions, by Vu Canh, 7 pp.
VIETNAMESE, np, Nhan Dan, 4 Nov 1965, p. 4
JPBS 33147

Resolutely Train for Battlefield Victory, by Vuong Thua Vu, 13 pp.
VIETNAMESE, np, Quan doi Nhan dan, No 1638, 5 Oct 1965, p. 1
JPBS 33968

VIETNAMESE, np, Thong Nhat, 22 Oct 1965, pp 4 & 3
JPBS 33062

Holding Firmly to the Basic Concept of People’s Warfare and People’s Armed Forces, by Col Le Van Thang, 8 pp.
VIETNAMESE, np, Than Hao, 13 Oct 1965, p 1 & 3
JPBS 33297

Far East
Political (Contd)

JPBS 33100

On Highway No. One in Military Zone Four, by Le Dinh Du, 8 pp.
VIETNAMESE, np, Quan doi Nhan Dan, 11 & 12 Oct 1965, p 2.
JPBS 33915

Military

Commission C of the DPHER Visits Defense and Weapons Projects, by Thamerin Sarin, 6 pp.
JPBS 33651

The Gestapo Was a Threat to the Pantjasila, 6 pp.
JPBS 33028

Army Officer School Positively Modernizes Training Organization, by Col Le Thu Dong, 5 pp.
VIETNAMESE, np, Quan doi Nhan Dan, No 1635, 1 Oct 1965, p. 2.
JPBS 33043

Grasp Basic Principles of People’s War, by Col Le Van Thang, 8 pp.
VIETNAMESE, np, Than Hao, 13 Oct 1965, pp 1 & 3
JPBS 33062

-32-
Far East Geographical

*INDONESIAN*, rpt. Publis by Indonesian Army Supreme Command of Operation, 1965
pp 140-225.
DIA IN 48.65

Geographical Index of Thailand, 277 pp.
*THAI*, bk, Geographical Index of Thailand, Bangkok, 1965, pp 1-341.
JPRS 30060

JPRS 302456

Sociological

Original Legislation on Protection of Socialist Property in the Mongolian People's Republic, by
E. Gumee, 12 pp.
JPRS 34,460

What Are The Harms Done by Superstition? 8 pp.
JPRS 32799

Give a Good Performance of the Work of Smashing Superstition, 7 pp.
JPRS 32799

A trip through Harbin, Changchun, and Mukden (II) by Shimade Masao, 9 pp.
JPRS 33140

Far East Sociological (Contd)

JPRS 33041

JPRS 33041

The Nation's Healthkeeping and Class Indoctrination of the Workers, by Hwang Song-ch'ol, 9 pp.
JPRS 33041

JPRS 33072

JPRS 32591

The Task of Education in the New Situation Must be Fulfilled, by Nguyen Khanh Toan, 12 pp.
JPRS 33317

A Few Lessons About the Building and Development of the Public Health Branch, by Pham Ngoc Thach, 11 pp.
JPRS 33317

Twenty Years of Vietnamese Medicine Under the Democratic Republic, by Pham Ngoc Thach, 10 pp.
*VIETNAMESE*, per, *Ho Thi*, No 123, Sep 1965, pp 2-5.
JPRS 33297
Projected statutes of the Association of Vietnamese Historians, 5 pp. VIRM0M, per, 5 Aug 1965, pp. 63-64. JPRS 33066

Experiences of the Three Responsibilities Movement in Hai Duong, by Tran Minh Tan, 5 pp. VIRM0M, np, 23 Oct 1965, p 3 JPRS 33082

Establishing "Four Good" Departments, by Vu Onh, 8 pp. VIRM0M, np, 2 Nov 1965, p 2. JPRS 33100

Promote the Revolutionary Capacity of the Women Workers and Employes, by Truong Thi My, 5 pp. VIRM0M, np, 1 Feb 1966, p 4. JPRS 331147

Allotment, Planting and Harvest, by Le Van Van, 5 pp. VIRM0M, per, Tin Tuc Hoat dong Khoa hoc, No 9, 1965, pp 5 & 6 JPRS 33082

A Conference Summarizing 1964 Activities of Institute of Agricultural Science, 6 pp. VIRM0M, per, Tin Tuc Hoat dong Khoa hoc, Apr 1965, pp. 49-49. JPRS 33063

Leadership Experience of Quang Binh Women's Association, by Ha Thi Tinh, 6 pp. VIRM0M, np, 20 Oct 1965, p 6 JPRS 33082

Artificial Insemination in Cuba, by Talia Carol, 7 pp. SPANISH, per, Bohemia, 6 Aug 1965, pp 6-11 JPRS 33105

Citrus Crops in Cuba, by Mario G, del Canto, 8 pp. SPANISH, per, Bohemia, 20 Aug 1965, pp 38-43 JPRS 33105

Food Production in the Light of the August Small Landholders' Conference, 9 pp. SPANISH, per, Cuba Socialista, Oct 1965, pp 124-132 JPRS 32796

Organize the Inventors' and Innovators' Movement, 6 pp. SPANISH, per, Cuba Socialista, Oct 1965, pp 133-138 JPRS 32796


IHRI Celebrates Third Anniversary, 7 pp. SPANISH, np, Sierra Maestra, 10 Aug 1965, pp. 1, 3 and 4. JPRS 33063
Comparison of the Capitalist and the Communist Concept of Freedom, by Dias Roza, 16 pp.
SPANISH, per, Cuba Socialista, Oct 1965, pp. 18-37
JPRS 32796

SPANISH, per, Cuba Socialista, Nov 1965, pp. 12-22
JPRS 33105

Speech by Fidel Castro on Behalf of the Central Committee of the Communist Party of Cuba, by Fidel Castro, 18 pp.
SPANISH, per, Cuba Socialista, Nov 1965, pp. 61-82
JPRS 33105

Speeches from Communist Party Central Committee Meeting, 6 pp.
JPRS 33083

First Conference of Solidarity of the Peoples of Africa, Asia and Latin America, 5 pp.
SPANISH, per, Cuba Socialista, Nov 1965, pp. 119-124.
JPRS 33083

SPANISH, np, El Sol, 1 Oct 1965, pp. 4-5, 7 and 8; 8 Oct 1965, pp. 4-5, 7, and 2.
JPRS 32673

Cuba Must Build Communism As It Builds Socialism, by Castro, 9 pp.
JPRS 33019

JPRS 33019

Castro on the Selection of Members of the Party Central Committee and on the Party, by Fidel Castro, 9 pp.
JPRS 33019

Speech by Vilma Espin, President of the FMC, At Meeting of International Women's Federation in Salzburg, 6 pp.
JPRS 33285

SPANISH, per, Verde Olivo, 3 Oct 1965, pp. 1-3.
JPRS 32873

Party Activities at Matanzas Basic Officers School, 7 pp.
SPANISH, per, Verde Olivo, 3 Oct 1965, pp. 54-57.
JPRS 32873

Secretary General of UJC Discusses Labor Plan, 6 pp.
JPRS 32889

Military

The Venezuelan Navy,
SPANISH, rpt, Marina de Guerra de Venezuela,
DIA LN 259-65
ID 5902003465

Pamphlet Explaining the Admission of Candidates - (Military College-Paraguay)
26 pp.
SPANISH, rpt, Published by Marshal Francisco Solano Lopez Military College, 1965.
DIA LN 13-65

ACET 1-7743
ID 2876009064
Latin America
Military (Contd)

DIA IN 89-65

Direction and Administration of the Military Medical Corps, by Miguel Angel Arcos, 7 pp.
SPANISH, per, Revista de las Fuerzas Armadas, Mar-Apr 1965, pp 123-126.
DIA IN 89-65

Sociological

The Boarding School in El Jigue, by Ruben Castillo Ramos, 5 pp.
SPANISH, per, Bolivia, 6 Aug 1965, pp 16-17 & 18
JPRS 39005

New Urban District in Santiago De Cuba Will Rouse 50,000, by Rafael Sanchez Lalebre, 8 pp.
SPANISH, per, Bolivia, 16 Aug 1965, pp 105-109
JPRS 39005

School Facilities in San Lorenzo, by Rogelio Luis Bravet, 7 pp.
SPANISH, per, Bolivia, 21 Aug 1965, pp 34-39
JPRS 39005

JPRS 30699

Rio Encuentro, Argentine Territory, by Amaro Serrondo.
JPLA LI 292-65
ID 28200016565
Aerospace

RUSSIAN, rept, 1965
JPRS 32808

Problems in Evaluating the Performance of Astronauts, by F. Y. Isakov, and V. A. Popov, 7 pp.
RUSSIAN, rept, presented at the 16th International Astronautical Congress, Athens, Sep 1965, pub in Moscow, 1965
JPRS 32808

SCIENTIFIC

Results of Some Electrophysiological Studies on "Voiskhod" Spacecraft, by I. T. Akulinichev, and V. V. Bogdanov, 18 pp.
RUSSIAN, rept, 13-18 Sep 1965,
JPRS 32808

Brightness Variations of Echo-1 Satellite, by M. V. Bratichuk.
*NASA TT F-9841

Equipment and Methods of Measurements During Tests of Rockets, by A. V. Kantor, 689 pp.
RUSSIAN, bk, Apparatura i Metody Izmereniy Pri Ispytaniyakh Raket. Moscow, 1963, pp 1-520.
9698541-V

Measurement of Protons of Energy 0.4 to 8 Mev on the Satellite Kosmos-41, by S. N. Vernov.
*Dept of Navy/APL No J-693

Resource Increased in Double, by M. Gal'perin, G. Ushakov, 8 pp.
RUSSIAN, per, Granitnesgli Aviatsiya, No 8, 1964, pp 28-29.
9698562

*FTD-Tr-65-723

Scientific Aerospace (Cont)

RUSSIAN, per, Nauchno-Tekhnicheskii Obzor, No 4, 1965, pp 43-45.
9698611

RUSSIAN, bk, Osnovy Teorii Poleta Raket, 1964, pp 1-510.
*FTD-MT-65-567

9698197

Communications Satellites, by Prof. A. Fortunashenko, 7 pp.
RUSSIAN, per, Radio, No 7, Jul 1965, pp 7-9.
JPRS 32846

Man and Outer Space, by V. Tomakov, 7 pp
9698236

A Problem of Optimum Motion of Ballistic Rockets, by A. S. Gliullin.
*FTD-Tr-65-562

*FTD-Tr-65-1918
Scientific
Aerospace (Contd)

Application of the Theory of Invariance to the Selection of the Parameters of a Flight Control System, by V. A. Bochner.
RUSSIAN, rpt, Vsesoyuznoye Soveshchanye po Teorii Invariantnosti i Vaya-
*FTD-TT-65-1968

Aerodynamic Experimentation in Aviation, by Liu, Hou-Chi.
*FTD-TT-65-1924

Guided Missile Warheads and Fuzes, by Li Ch'u-fei, 5 pp.
CHINESE, per, Heng-kung Chih-chih, Vol II, No 8, 7 Aug 1965, pp 12-13
JPRS 30099

The Next Step in Space Travel, by Tsien Shing Wu, 9 pp.
CHINESE, per, Hua Hseh T'g Pao, No 2, 1963, pp 14-16. 9638635
*FTD-TT-65-562

Supersonic Flying Machine, by O. Reitlinger.
*Dept of Navy/APL No J-688

GERMAN, per, Deutche Versuchsanstalt fur Luft und Raumfahrt E.V., pp 1-31.
Dept of Navy Tr 4350/ONI 2006

The Devaluated Vertical Take-off Aircraft, 56 pp.
GERMAN, per, Luftfahrttechnik Raumfahrttechnik, No 12, 1963.
Dept of Navy Tr 4329/ONI 2005

Twc Formation in Lamellar Pearlite, by H. Proger.
GERMAN, per, Die Naturwissenschaften, Vol LII (5), 1965, pp 370-377
AEC-NP-Tr-1306

The First Space Expedition, by I. Pascaru, 9 pp.
ROMANIAN, per, Stiinta si Technica, No 11, 1964, pp 26-28. 9668536
*FTD-TT-65-687

ROMANIAN, per, Studii si Cercetari de Mecanica Aplicata, Vol XV, No 1, 1964, pp 455-440. 9668652
*FTD-TT-65-682

Agriculture

The First All-Union Conference on Toponyms Inter-Vuz Conference on Geobotanical Zoning of USSR, Conference on the Geography of the Fertility of Forest Trees, Brushwoods and Berry Bushes, by Ye. M. Popelov, L. N. Sobolev, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geographicheskaya, No 5, 1965, pp 142-144.
RCS1 7-583 J-C
ID 2204037265

Brief Description of the Principal Varieties of Strong and Durum Wheat, 15 pp.
RUSSIAN, booklet, Rekomendatsii po protivodatvuro-
zenie ol'nykh i tvrdaykh zernet, 1964, pp 31-47
JPMF 33014

From the Plant to the Consumer, by A. Yushevsky, 5 pp.
RUSSIAN, per, Bely'skoye Zidm, 12 Sept 1965, p 3.
JPMF 32541
Scientific Agriculture (Contd)

Harvesting Machines Propelling Agents, by B. Burakov and V. Vorilnin, 6 pp.
RUSSIAN, per, Bel'khozbykhoyastvennaya Proiz-
JPRS 32521

Quantity and Quality of Water for Agriculture, by Michal Antonic, Ladislav Cervenka, CZECH, bk, Zdroje a Kvalita vody v
DIA UI-88-65
ID 2218061465-V

SPANISH, rpt, Conservacion de Alimentos
dor Irradiacion, I. Evolucion y
Estado Actual en el Mundo,
*-AEC

Biological & Medical Sciences

The Recognition of Speech Sounds with the Help of Self-Organizing Systems with Two Positive Feedbacks, by H. L. Okhanzuri,
*FTD-TR-65-1381

Electronic Microscope Research on Bacteria and Phages, by A. P. Pekhov,
RUSSIAN, bk, Elektronnomikroskopicheskiye
Issledovaniya Bakteriy i Fajgov,
1962, pp 1-224.
*FTD-TR-65-1922

Electroencephalographic Changes in the Orientation and Conditioned Defense Reflexes Under the Effect of Tranquilizers, by Yu. V. Burov,
7 pp.
RUSSIAN, per, Paramekiologiya i Toksiologiya,
JPRS 32510

Effect of Hypoxemia and Hypercapnia on Intrac-
JPRS 32547

Hematology and Blood Transfusion, by
S. A. Zavrik, et al. 77pp.
RUSSIAN, bk, Smesologiya i Transfuziya
Vol 1, Kiev, 1965, CIP,
pp. 9-11, 143-225, 250-353, 353-
355, 355-370, 370-376, 376-382, 382-
and 382-390.
JPRS 32,663

Concerning the Maximum Permissible Concentrations of Uranium in Water and Air, by V. P. Shanov.
RUSSIAN, per, Gig i San i, No 11, 1964, pp 104-111. 9230540
*AEC-TR-6624

Effect of Industrial Working Conditions Upon
RUSSIAN, bk, Gigi i San, Moscow, 1965,
JPRS 32681

Data on Neurohormonal Shifts Occurring under the Effect of Chloroprene, by Ye. L. Gasparyan, 9 pp.
RUSSIAN, per, Gig i San i, No 11, 1964, pp 139-156. 9230540
*FTD-TT-65-1922

Data Substantiating Maximum Permissible Concentrations of Some Insoluble Hyl-
RUSSIAN, per, Gig i San i, Professional-
ye Zabolevaniya, No 6, 1965, pp. 40-44.
JPRS 33030

On the Toxicity of Gallium Compounds,
by V. V. Podosinovskiy, 7 pp.
RUSSIAN, per, Gig i San i, Professional-
JPRS 33031

-35-
Investigating the Phenomenon of Sleep, by A. Shepoval'nikov, 5 pp.
JPRS 33033

JPRS 33007

The Annual Meeting of the Department of General Biology, by A. A. Buyanovskaya, 10 pp.
JPRS 33162

JPRS 33115

AGI T-78438
ID 2204037265

Chemistry and Medicine, by A. G. Natraishe, 49 pp.
RUSSIAN, bk, Khimiya i meditsina, Moscow, 1965
JPRS 32795

Scientific
Biological & Medical Sciences (Concluded)

Autonomic Dystonias in Radiation Injuries and Their Treatment, by I. S. Glaichenov, A. A. Gravkov and V. A. Ivanov, 8 pp.
RUSSIAN, per, Klinicheskaya Medicina, Vol. 43, No 8, Aug 1965, pp. 18-18.
JPRS 33039

Biochemical Blood Indexes in Sheep With Radiation Disease, by V. A. Silotchkin.
JPRS 33151

JPRS 33161

Change in Activity of the Taste Analyzer under Experimental Gastritis in Dogs, by N. A. Zubkova.
JPRS 33293

AER 15-trans-18

RUSSIAN, per, Patologicheskaya Fiziologiya i Ekperimental'naia Terapiya, No 3, 1963, pp 90-91.
92298638
JPRS-65-860
RUSSIAN, per, PRIRODA, No 7, 1965, pp 2-10.
JPRS 32009

RUSSIAN, per, PRIRODA, No 9, 1965, pp 45-50
JPRS 33298

Problems of Evolutionary and Technical Biochemistry, by A. N. Bakha.
RUSSIAN, bk, Problemy Evolyutsionnoy i Tekhnicheskoy Biokhimii, Moscow, 1964.
JPRD-7T-65-1189

Tissue Cultures in Virology, by V. D. Solovyev, T. A. Bektemirov.
ACSI 1-6328
ID 5831037663-V

A Complex Method of Study of the Functioning of the Taste Analyzer in Man, by A. I. Vasilyev.
RUSSIAN, per, Trudy Ak Nauk SSSR, Institut Fizioligii, No 6, 1957, p 172.
JPRD-TT-65-1915

Biological and Hydrodynamical Sounds Emitted by Fishes, by A. K. Tokarev.
RUSSIAN, per, Trudy VNIRO, Vol XXXVI, 1959, pp 272-279.
JPRD 32980

JPRS 32908

JPRS 32908

Cortical Bioelectric Patterns of Activity in Epileptic Patients and Two Responses to Hassadine and Benzoal, by F. A. Lybovich.
RUSSIAN, per, Akad Meditsinskikh Nauk SSSR, Vestnik, No 1, 1962, pp 65-77.
JPRD-TT-65-1927

Effect of Vestibular Irritation of Electrical Activity of the Cortex and Basal Areas of the Brain, by Ye, A. Zhirmankaya, F. M. Isselevich, 21 pp.
JPRD-TT-65-410

Immunobiological Properties of Foot-and-Mouth Disease Virus of Type Asia-1, by I. A. Rosortseva, P. N. Derun, 6 pp.
RUSSIAN, per, Voprosy Filologii, No 9, Sep 1965, pp 10-17
JPRS 32980

RUSSIAN, per, Voprosy Filologii, No 7, 1965, pp 42-55
JPRS 32979

RUSSIAN, per, Voprosy Filologii, No 7, 1965, pp 56-61
JPRS 32979

The Subject Matter of Semiotics, by A. A. Vetov, 16 pp.
JPRS 32876

RUSSIAN, per, Voprosy Filologii, No 9, 1965, pp 118-123.
JPRS 32876

JPRS 32876
On the Problem of Hypnopedia, by
N. D. Zavalova, V. P. Zukhar', 9 pp.
RUSSIAN, per, Voprosy Zhiznologi,
No 2, 1964, pp 98-102. 969839
PDT-IH-65-783

Course of Experimental Infection in Sheep
Infected with Strains of Tick-Borne
Encephalitis Virus Isolated in Different
Geographic Zones of the USSR, by V. I.
Volokov, L. I. Protes, 14 pp.
RUSSIAN, per, Voprosy Virusologi, Vol I,
No 4, Jul-Aug 1965, pp 454-462.
JPRS 33992

Classification of Infectious Diseases, by
M. P. Koslov, 7 pp.
RUSSIAN, per, Zhurnal Mikrobiologi, Epidemiologi, InSmobiologi, No 9, 1965, pp 129-
134.
JPRS 33114

Electric Responses of Various Structures of
the Cerebral Cortex in the Formation of the
Conditioned Food Reflexes to Auditory and
Photic Stimuli, by N. N. Lychenkov, 33 pp.
RUSSIAN, per, Zhurnal Vysshey Nervnoy Deyat-
Tel'nosti Ismeni I. P. Pavarova, Vol IV, No 4,
JPRS 33061

Dynamics and Readjustment of the Motor
Response of Animals to Various Hypoxic
Media, by I. S. Breslav, 8 pp.
RUSSIAN, per, Zhurnal Vysshey Nervnoy Deyat-
Tel'nosti Ismeni I. P. Pavarova, Vol IV, No 4,
1965, pp 577-582.
JPRS 33061

Notes on Genetics, by L. Smolov, 23 pp.
RUSSIAN, per, Zhurnal, Vol XXIV, No 4,
Apr 1965, pp 673-674.
JPRS 32479

Two Components of the Scotopic 5-Wave
of the Human Electroretinogram, by
CHINESE, per, Sheng Li Huaen Pao,
Vol 31XII, No 2, 1964, pp 130-139.
969833
PDT-71-65-364

A Discussion of the Role of Genetics and
Behavior in Light of the Changes Occurring
in the Soviet Union, 8 pp.
BULGARIAN, mp, Literaturan Presat, No 36,
2 Sep 1965, pp 1, 2.
JPRS 33524

Rural Medical Knowledge: Introduction to
Practical Rural Medicinals, by Yen chu-ch'uan
(5509 3904 3123), 39 pp.
CHINESE, per, Sheng-chu T'ung-pao, No 10,
JPRS 33985

Comparison of the Radiation Sensitivity
of Chromosomes in White Blood Cells of
Human Beings, Monkeys, and Rabbits, by
CHINESE, per, Su-chu T'ung-pao, No 10,
Oct 1965, pp 917-918.
JPRS 33986

Cyanogen-Containing Plants, by P'an Cheng-
chu (3302 2973 0443), 9 pp.
CHINESE, per, Sheng-wu-t'ung T'ung-pao,
JPRS 33660

Collected Papers of the First National Symposium
of Biochemistry, 238 pp.
CHINESE, report, Ti-i-ku Ch'uan-ho Sheng-wu-
Huaen Hua-hu-nui Hui-k'ien, 1962, Preface
and pp 1-81, 95-162.
JPRS 33002

Biological Activity of Petroleum Products, by M. Cevka, 11 pp. CZCHI, per, Ropa A. Uhleka, No 1, 1965, pp 14-17. ACSI I-7778 ID 2204037665


A Neuroleptic of Affectively Relaxing Effect, 8 pp. GERMAN, rpt, Neuroleptikum mit Affektiv Auflockender Wirkung, pp 1-11. ACSI I-7760A ID 2214006465

Therapeutic Experience With Thiopropazate and With a Combination of Thiopropazate and Chlorphencyclan (Vesitan) In Psychiatry, by w. Poldinger. 12 pp. GERMAN, per, Praxis, Vol LI, No 3, pp 73-78. 18 Jan 1962, pp 1-16. ACSI I-7760D ID 2214006465

Psychopharmacological Long-Period Treatments in Clinical Psychiatry, With Special Reference to Vesitan, (Thiopropazat + Chlorphencyclan), by E. Jost, 7 pp. GERMAN, per, Praxis, Vol LII, No 33, 15 August 1963, pp 1-11. ACSI I-7760E ID 2214006465


*AEC EDC 1 Jan 1966


Twenty Years of Veterinary Parasitology in Hungary, by Dr Sándor Kotlán, 7 pp. HUNGARIAN, per, Magyar Allatgyógyászati Lapok, No 7, July 1965, pp 280-292


Medical Facilities that Guard the Health of Six Hundred Million People, 12 pp. JAPANESE, per, Nihon Act Radiol, Vol No 10, 5 Oct 1965, pp 10-15. JPS 33152


Organophosphorus Inhibitors of Cholinesterase, by G. M. Grigor'yeva, 12 pp. RUSSIAN, per, Biokhimiya, Vol 30, No 2, 1965, pp 415-422. JPS 32874


The Action of Phosphorus Acid Esters on \( \alpha \)-Chloroperfluoronitrosoalkanes, by A. A. Gevorkyan, B. L. Dyatkin and I. L. Knuyants, 12 pp. RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Byulliya Khimicheskaya, No 9, 1965, pp 1599-1606. JPS 33022
Scientific Chemistry (Contd)

Reduction of Alkaline Earth Oxides With Aluminum Carbide, by A. S. Bornazyan, M. V. Darbinyan.
RUSSIAN, per, Iz Ak Nauk Armyan Skol SSR Khimi Ches Ns, Vol XV, No 1, 1962, pp 25-33. 9230468
AEC-ORNL-Tr-683

Mechanism of Oxidation of Some Ni-Cr Base Alloys, by D. Ignatov, R. Shamgumova.

Combustion of Ammonium Perchlorate at Atmospheric Pressure, by A. A. Shidlovskiy.
RUSSIAN, per, TsNt Metallurgiya, Vol 5, No 1, 1962, pp 89-93.  *NASA TT F-416

Estimation of Viscosity for Molten Salts (Oxides), by O. K. Sokolov.
RUSSIAN, per, Izv VUZ SSSR, Khimii i Khimicheskaya Tekhnologiya, No 5, 1964, 3 pp.  ACSI I-7722
2204031565

Study by the Extraction Method of the Complexing of Curium and Europium, by I. Stary, 7 pp.
RUSSIAN, rpt, Joint Institute for Nuclear Research, Dubna, 9230412.  AEC ORNL-Te-760

Evaluation of the Quality of Spray Obtained During Ultrasonic Dispersion of Liquids and Melts, by V. F. Popov.
RUSSIAN, per, Khimicheskaya Promyshlennost, No 12, 1964, pp 891-901.  *FTD-TT-65-1960


Modification of Polypropylene Fibers and Fabrics by Grafting of Acrylonitrile by Z. Hamasek, M. Nicko, et al.

RUSSIAN, per, Plastitcheskiye Massy, No 9, 1964, pp 41-43.  9698625  FTD-TT-65-909

Growth of Chromium Oxide Single Crystals by the Verneuil Method, by A. A. Popova.
RUSSIAN, per, Rost Kristallov, Ak Nauk SSSR, Khimicheskaya Technologiya, No 5, 1964, pp 148-150.  9230420
AEC-SC-T-65-769

Calibration of the VR-5/20 Thermocouple to Critical Points up to 300°C.


Investigation of Thermodynamic Properties of the Ternary Metallic System Bi-Cu-Sb at the Section NiBi:NiSb=1:1 by the E.M.F. Method, by A. L. Losev, A. N. Krestovnikov.
Organic Phosphorus Pesticides and Insecticidal Carboxylic Acid Esters, by N. N. Mel'nikov, 41 pp.
RUSSIAN, per, Zhurnal Vsesoyuznogo Khimicheskogo Obozheviya, Vol 9, No 5, 1964, pp. 524-536.
JPRS 32875

CHINESE, per, Hua-hsueh T'ung-pao, Vol 30, No 6, Dec 1964, pp 526-532
JPRS 32895

CHINESE, per, Hua-hsueh T'ung-pao, Vol 30, No 6, Dec 1964, pp 532-538
JPRS 33099

CHINESE, per, Hua-hsueh T'ung-pao, Vol 31, No 1, Feb 1965, pp 96-99
JPRS 33099

The Synthesis of a, a'- HED-Isopropylbenzene Peroxide and its Uses, by Yang Ch'ing-sun, 20 pp.
CHINESE, per, Hua-hsueh T'ung-pao, No 6, 14 Jun 1965, pp 10-15.
JPRS 32894

Cyclization of β - Cyanomethyl Compounds, by Huang Hua-min, 22 pp.
CHINESE, per, Hua-hsueh T'ung-pao, No 6, 14 Jun 1965, pp 32-44.
JPRS 32894

CHINESE, per, Hua-hsueh T'ung-pao, No 9, 14 Sep 1965, pp 38-44.
JPRS 33087

CHINESE, per, Hua-hsueh T'ung-pao, No 9, 14 Sep 1965, pp 43-51
JPRS 33087

CHINESE, per, Hua-hsueh T'ung-pao, No 9, 14 Sep 1965, pp 51-54
JPRS 33087

CHINESE, per, Hua-hsueh T'ung-pao, No 9, 14 Sep 1965, pp 54-56
JPRS 33087

Electrochemical Study on Chemical Ratio of InSb, by Yao Lin-sheng (6760 0357 6632), 5 pp.
CHINESE, per, Hua-hsueh T'ung-pao, No 9, 14 Sep 1965, pp 54-56
JPRS 33087

AEC-tr-6618

Stabilization of Telflex, by M. Peterka.
CZECH, per, Chemické Zvesti, No 9, 1963, pp 656-666.
*FTD-TT-65-1821

X-ray Investigation of Fiber Textures in Alpha-Uranium Rods, by F. Volf.
CZECH, per, Jaderna Energie, Vol 10, No 4, pp 135.
*FTD-TT-65-1822

On the Effect of Light on Ketosteroid Separation, by E. Waliner, M. Kerepesi.
*FTD-TT-65-1867
<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Pages</th>
<th>Journal</th>
<th>Volume/Issue</th>
<th>Year</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effect of Technological Parameters on the Properties of Aluminum Oxide Films</td>
<td>D. Lange</td>
<td></td>
<td>Przeglad Elektroniki, No 10, 1964</td>
<td></td>
<td>1964</td>
<td>pp 486-490</td>
</tr>
</tbody>
</table>


In the International Scientific Organizations at an International Paleontological Colloquium on the Pleistocene, and a Geomorphological Field Trip Through the German Democratic Republic, by N. S. Chebotareva, 16 pp. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya 1964, No 2. AST I-8462-E ID 2204049765


Scientific Conference of the Moscow Institute of Geodetic, Aerial Photo Survey, and Cartographic Engineers, 6 pp. RUSSIAN, per, Iz Vyssh Ucheb Zaved, Geod i Aero, No 4, 1964, pp 137-140. AST I-6813 ID 2204011465


Effective Distribution of Aerological Stations in the Northern Hemisphere, by S. I. Gubanov, 12 pp. RUSSIAN, per, Meteorologiya i Gidrologiya, No 8, 1965, pp 26-32. JPB 36943

RUSSIAN, per, Meteorologiya i gidrologiya, No 8, 1965, pp. 40-46.
JPRS 32943

Literature on Meteorology and Hydrology for 1964, 8 pp.
RUSSIAN, per, Meteorologiya i gidrologiya, No 8, 1965, pp. 60-62.
JPRS 32943

RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 3-11
JPRS 33250

RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 12-20
JPRS 33250

Allowance for the Characteristics of the Temperature-Pressure Field of the Lower Stratosphere in Compiling Seasonal Weather Forecasts, by Z. L. Turkiatti, 12 pp.
RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 21-28
JPRS 33250

Approximate Criterion for Determining the Possibility for Inducing Artificial Precipitation from Cumulus Clouds in the Ukrainian SSR, by G. F. Prikhot'ko, 5 pp.
RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 36-38
JPRS 33250

RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 39-42
JPRS 33250

RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 43-44
JPRS 33250

RUSSIAN, per, Meteorologiya i gidrologiya, No 10, 1965, pp 50-54
JPRS 33250

RUSSIAN, per, Moskov Univ, Vest Ser Piz Astron, No 3, 1965, pp 36-45.
Dept of Navy/APL No J-697

Mongolian Landscapes, (As Exemplified by the Hentey Mountainous Region and the East-Mongolian Elevated Plain), by Sh. Tsengid, 6 pp.
RUSSIAN, ppr, O Landshaftakh Mongoli (Na Prime Khentsyvogo Kornogo Rayona I Vostochno-Mongol'skoy Fripodmyatoy Raminy.
ACSI T-8462-B
ID 2204049765

Preliminary Interpretation of Soils on Aerial Photographs in the Compilation of Large-Scale Soil Maps, by V. A. Kalina, 17 pp.
RUSSIAN, per, Pochvozvedenye, No 6, 1965, pp. 81-98.
JPRS 33350

RUSSIAN, per, Priroda, No 6, Jun 1965, pp 48-57
JPRS 33994

Criteria for the Verification of Interpretation of Gravitational Anomaly, by K. M. Kartvelishvili.
RUSSIAN, per, Soobshchenn Ak Nauk Tbilisi, Cruxi, Vol XXV, No 6, pp 196-.
Dept of Navy/Oceanograph Tr 267

RUSSIAN, ppr, Spetsial'nye voprosy Fotogrammetrii, 1964, pp. 5-23.
JPRS 32935
Development of a Multi-bucket Dredger
For Rocky Ground, by Ya. M. Rudin,
V. G. Martynin, 6 pp.
RUSSIAN, per, Transportnoye Stroitels'tvvo
No 1, 1966, pp 20-23.
DIA N 113-65

Some Characteristics of Auroras as a Radar
Target and Allowance for Ionospheric-
Tropospheric Conditions in the Interpretation
of Polar Observation Results, by Ye. F. Vershinin.
RUSSIAN, per, Trudy AN SSSR, Yakutskiy
Filial Institut Kosmofizicheskikh
Issledovanii i Aeronomii, 1964,
pp 96-106.
*FTD-IT-65-415 (2)

The Effect of the Characteristics of the
Luminous Brightness and Position of
October Auroras, by Yu. A. Nadubivivich.
RUSSIAN, per, Trudy AN SSSR, Yakutskiy
Filial Institut Kosmofizicheskikh
Issledovanii i Aeronomii, Geo-
J Geolofizicheskikh Effekty V Kosmofizicheskikh Luchakh
*Polyarnykh Sil'yaniyakh, 1964, pp 113-129.
*FTD-IT-65-1415 (1)

Determination of the Maximal Values
of Gravitational Drift and the Drift
Due to Unequal Rigidity of Floating
Integrating Gyroscope, by G. A. Slomyanskiy.
RUSSIAN, per, Trudy Aviosisstriny
Tekhnologicheskiy Institut, No 59,
1964, pp 74-82.
*FTD-IT-65-581

Soil Microbiology and its Tasks, by
Ye. N. Mashustin.
RUSSIAN, per, Trudy Institut Microbiologii,
Akad. Nauk SSSR, Vol I, No 1, 1955,
pp 15-175.
*NA-A TT-F-414

Geographical Distribution of Fishes and other
Commercial Animals of the Okhatsk and Bering
Seas, by L. A. Zenkevich, et al.
RUSSIAN, per, Trudy Inst Oknemol, Vol XIV,
1955, pp 73-115.
*Dept of Navy/Oceanograph Tr 264
Development of Meteorology in Recent Years, by Yeh Tu-cheng (0673 4640 2973), 11 pp.
CHINESE, per, K'o-haneh t'ung-pao, No 10 Oct 1965, pp. 884-886.
JPRS 32953

The Formation of the Second Maximum in the Cloud Graph, by Lin Hai, 7 pp.
CHINESE, per, K'o-haneh T'ung-Pao, No 10, Oct 1965, pp 923-925
JPRS 32965

Research on Microphysical Mechanism of Rain from Warm Clouds, by Chao Hsin-chi (0719 4423 7735), 5 pp.
JPRS 33152

CHINESE, monograph, P'ing-t'ei-t'ieh Ta-ch'ii Huan-liu chi T'ai-yang Huo-tung Wu Ta-ch'ii Huan-liu Ying-hsing te Yen-ch'i, Pe 1964.
JPRS 33045

JPRS 32969

Dry-Method Separation of Some Rare Earth Elements: Ytterium, by Jean-Claude Achard, FRENCH, per, Compt Rend Acad Sci, Vol CCLIV, 1957, pp 3059-3062, 9229448
AEC-OMNL-Tr-812

*Dept of Navy/Oceangraph Tr 266

The Height and Period of Wave Motion in the Northern North Atlantic Ocean, by Hans Walden.
*Dept of Navy/Oceangraph Tr 270

Investigation of the Ionosphere with Radio-waves from Satellites and Rockets, Phase Methods, by K. Rauer.
Dept of Navy Tr No 4345/APL No T-1495

Strength Theory of the Absol-ute Deviation of Sounding line as a Function of Free-Air Anomalies of Gravitational.
GERMAN, per, Veröffentlichung 65 der Geodätischen Instituts, Tübingen, No 13 1959, pp 1-46.
*Dept of Navy/Oceanograpg Tr 269

Determining the Co-ordinates from Free Air Anomalies, by Kurt Arnol'.
GERMAN, per, Veröffentlichung des Geodätischen Instituts in Tübingen, No 3, 1959, pp 1-1-50.
*Dept of Navy/Oceanograpg Tr 270

AEC SC-5-65-757

GERMAN, per, Zeitschrift für Geophysik, Vol XXX, No 1, 1964, pp 5-17, 9229403.
AEC SC-5-65-761

GERMAN, per, Zeitschrift für Meteorologie, Vol 18, No 3-4, 1959, pp 132-141.
JPRS 33031

9229405
UCRL-Trans-1229-L.

FOA Explains about No 3 Underwater Sound, 42 pp.
SWEDISH, rpt, FOA Orientenar ON Hydroakustik, No 3, Feb 1965, pp 1-30.
Dept of Navy Tr 4354/ONI 2010
The Present Status and Directions for Future Development of Multichannel Analyzers, by I. S. Krasheninnikov, RUSSIAN, rpt, No 79, 9230599 AEC-Tr-6606


Extending the Zone of Radar Navigational Guidance in the Approaches to Leningrad, by V. Shchegolev, 9 pp. RUSSIAN, per, Morskoy Flot, No 11, Nov 1964, pp 22-23. DIA IN 145-65


-49-
Scientific Electronics (Contd)


The Interchangeability of Vacuum Tube and Semiconductor Instruments, by B. V. Katsnel'son, 9 pp. RUSSIAN, per, Standardizatsiya, No 9, 1964, pp 43-46, 5638325


Scientific Electronics (Contd)


Symposium on Hydroelectric Power Station Operation and Electric Equipment Design, by Cheng-Sheng Chao. CHINESE, per, K'o Han Chu Tung Pao, No 10, Oct 1965, pp 870-874 JPRS 33121

Development of Electronic Technology, by Chen Peng-yen, 16 pp. CHINESE, per, K'o Han Chu Tung Pao, No 10, Oct 1965, pp 870-874 JPRS 33121

Tropospheric Scatter Communications (I), Wu Te-yen, 9 pp. CHINESE, per, Tian-tau Chi-shu, No 11, Nov 1964, pp 19-20, 23 JPRS 32909

Tropospheric Scatter Communications (II), by Wu Te-yen, 9 pp. CHINESE, per, Tian-tau Chi-shu, No 12, Dec 1964, pp 14-16 JPRS 32909


Nomnclature for Domestically Produced Vacuum Tubes, 5 pp.
CHINESE, per, Wu-hsien-tien, No 4, 12 Apr 1965, inside frontcover.
JPRS 32668

Domestic Intermediate Frequency Transformers, by Hao Po (3185 3134), 11 pp.
CHINESE, per, Wu-hsien-tien, No 7, 12 Jul 1965, pp. 18, 19.
JPRS 32668

JPRS 32668

Forbidden Lines in the Hyperfine Spectrum of the Electron Paramagnetic Resonance of Mn++In Batio Sub 3, by M. Odehnal.
*AFT-TT-65-1838

Targets of High-Yield Neutron Generators, by Zbynek Hulek.
CZECH, per, Cas Cas Fys, Vol XIV, 1964, pp 467-479. 9230454
AEC-SC-T-65-755

Optimal Pushing of RC Oscillators, by A. Melezinek, 5 pp.
CZECH, per, Slabopyroudy Obzor, No 1, 1962, 2 pp.
*AFT-TT-65-1838

CZECH, per, Strojnicky Casopis, No 2, 1964, pp 105-123.
*AFT-TT-65-1952

DUTCH, bk, Aanslagfuncties van Metastabiele Toestanden, Gemeten Met Behulp van Secundaire Elektronenemissie voor Helium en Neon, Thesis Utrecht, 1941. 9230831-V
UCRL Tram 1259(4)

Electrodes a Diffusion Laterale, by D. Doniat.
*AFT-TT-65-9852

FRENCH, per, Le Journal de Physique et le Radium, Vol XXIII, Nos 8/9, pp 588-589, Aug-Sep 1962. 9230426
AEC-BNL-Tr-8

The Concept of Acoustic Impedance, by W. Willms, 6 pp.
*Dept of Navy/USRL Tr No 51

The Acoustic Analog of the Yagi Antenna, by E. G. Neumann, 6 pp.
Dept of Navy Tr 4365/USRL Tr No 49

Investigation of the Absorption of Waterborne Sound in the Frequency Range 1 KHz to 6 KHz, by E. Bocher, 3 pp.
Dept of Navy Tr

Electrical Current in Ionized Air in a Flat Condenser, by Gustav Mie.
GERMAN, per, Annalen der Physik, Vol XIII, No 5, 1904, pp 857-889. 9230456
AEC-ORNL-Tr-501

*Dept of Navy/USRL
Dept of Navy Tr 4333/USFL Tr No 48

Nonlinear Behavior of Junction Transistors at Higher Frequencies, by R. Paul.  
Dept of Navy Tr 4348/APL T-1497

Radioactive Collector for Atmospheric Electricity Soundings, by G. Roncke.  
AEC-SC-T-65-760

Dept of Navy Tr 4358/NRL Tr No 1032

Wire Scanner with Automatic Decay  
Correlation System, by Semuo Kobayashi.  
JAPANESE, per, Nippon Genshirokokokai Riron, Vol 5, No 10, pp 824-830, 1963  
AEC-NSI-Tr-15  
9229003

The Rapid Determination of L-Leucine, L-Isoleucine, and L-Valine in a Mixture by Infrared Spectrometry, by Shinichiro Kaga, Taizo Hayashi.  
JAPANESE, per, Nippon Kagaku-kaihi Gakkai, Vol IX, No 6, 1964, pp 659-663.  
FTD-TT-65-646

Dependence of DC-Conductivity or Organic Dielectric Upon Working Conditions and External Factors (I), by M. Kryszewski, H. Kurczewska.  
POLISH, per, Przegląd Elektrotechniki, No 4, 1964, pp 190-191.  
9698447  
FTD-TT-65-895

Telecommunications, by Parana State  
Public Works and Roads Secretariat, 29 pp.  
PORTUGUESE, rpt, Published by Parana State, Brazil, 1964, Curitiba,  
DIA LN 170-65

Low-impedance pulse Generator for Intense Short Pulses, by O. Nistor, E. Camachi, et al.  
ROMANIAN, per, Telecommunications, No 5, 1965, pp 147-151; 152-157; 164, 165.  
*AECI 1-7870  10 7204039365

Editorial: Compressed Air in the Cables; Economic Facts; Another New Telephone Plant at Jovellanos, 15 pp.  
DIA LN 107-65

UKRAINIAN, per, Avtomatika, No 4, 1964, pp 3-9.  
9698641  
FTD-TT-65-875

UKRAINIAN, rpt, Published by Society for the Dissemination of Political and Scientific Literature, 1959,  
DIA LN 151-65

9698634  
FTD-TT-65-646

9230461  
AEC-SC-T-65-748

Relative Effectiveness of Different Types of Chromium Plating by P. I. Zemskov. RUSSIAN, per, Avtomobil Prom, No 8, 1964, pp 37-40.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.

Relative Effectiveness of Different Types of Chromium Plating by P. I. Zemskov. RUSSIAN, per, Avtomobil Prom, No 8, 1964, pp 37-40.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.


On the Knocking Characteristics of Air Cooled Engines, by I. V. Markova. RUSSIAN, per, Avtomobil Prom, No 9, 1964, pp 5-7.
Foamed Glass - II, by E. O. Schultz.
*BISI 4571

*BISI 4457 Pt 2

*BISI 4378

Progress and Problems in Metallurgical Dust-Collecting Plants, by H. Weineck.
*BISI 4569

*BISI 4572

Steel Sheet Roads Prove Themselves.
*BISI 4573

A Newly Developed Compound - Cast Steel for Wear Exposed Installations, by A. Hamisch, et al.
*BISI 4554

ACSI I-8054C
ID 2204666765
Scientific Engineering (Contd)


Employment of Tanker's Loading System for Pressure Jet Heating of Pol Products, by G. Shvronin, 6 pp. RUSSIAN, per, Morskoi Flot, No 6, June 1965, pp 22-24. DIA LN 165-65


Scientific Engineering (Contd)


Periodic Forces Acting on the Hull of a Ship during the Operation of a Shrouded Propeller, by L. P. Karmak, 6 pp. RUSSIAN, per, Sudostroyenie, No 11, Nov 1965, pp 16-18. JPRS 33203

RUSSIAN, per, Teplomegetika, No 3, 1965; pp 41-47. 969654
FID-TT-65-858

RUSSIAN, bk, Termoinamika i Teploperedada, 1964.
*FID-TT-65-1967

Construction of a Quay Wall for the Novorossiysk Ship Repair Yard, by V. A. Tomady, 5 pp.
DIA LN 167-65

Air Cushion Transport Vehicles, by S. A. Adasinsky.
RUSSIAN, bk, Transportnye Mashiny Na voz- 
dushnoy Podushke, 1964, pp 23-29, 30-35; 
36-43, 79-84, 85-95, 96-102; 107.
*FID-IT-65-564

Air Cushion Transport Vehicles, by S. A. Adasinsky.
RUSSIAN, bk, Transportnye Mashiny Na Voz-
dushnoy Podushke, 1964, pp 23-29, 30-35; 
36-43, 79-84, 85-95, 96-102; 107.
*FID-IT-65-564

The Influence of Initial Turbulence on the Boundaries and Range of Submerged Jets, by Yu. A. Shcherbince.
*FID-TT-65-1945

Marine Fouling and Borers.
Dept of Navy Tr 4356/Oceanographic Tr 221

*FID-TT-65-1954

RUSSIAN, per, Trudy Simposium Samonastray 
Avtomat Sistema, 1964, pp 53-64. 
*FID-TT-65-1861

*FID-TT-65-1860

Photon Reaction Engine, by Ya. S. Fridenson.
RUSSIAN, per, Vest Prot Oborom, No 9, 
*FID-TT-65-1815

RUSSIAN, per, Zemlya i Vsemenna, No 4, 
JPR8 32431

Interaction of the Boundary Layer With An External Flow Caused by Radiative Heat Transfer, by V. V. Lunev, A. N. Rumynskyi, 
20 pp.
RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiz, No 3, 1962, pp 44-52.
9698231

RUSSIAN, per, Zhur Prikl Mekh i Tekh 
Fiz, No 3, 1962, pp 44-52. 9698515
FID-MT-65-156

Analog Between Cylindrical Explosion and Hypersonic Gas Flow Past Bodies, by V. P. Korobenynkob, 10 pp.
RUSSIAN, per, Zhur Prikl Mekh i Tekh 
Fiz, No 6, 1962, pp 45-49. 9697810
FID-TT-65-981

Approximate Calculation of Eigenvectors, by B. P. Pugachev.
RUSSIAN, per, Zhur Vychisl Matemat i Matemat 
Dept of Navy 4336/APL No T-1478
Application of "Artificial Viscosity" to numerical Solution of an Inverse Problem of Gas-dynamics, by L. I. Severinov.
*Dept of Navy/APL No J-685

A Measurement Interference Generator, by L. Andera.
CZECH, per, Shornik Brann Vojenski Akademia Hada B, No 4, 1965, pp 77-85.
*FDU-TT-65-1499

Losses in a Stage of an Axial Turbine at Flow Velocities Close to Sonic, by O. Bunata.
*FDU-TT-65-1846

The Role of Netherlands Industry in the Development Program for a Marine Reactor in the Netherlands, by M. Bogaardt, 7 pp.
DUTCH, per, TNO Nieuws, No 210, Aug 1963, pp 440-448.
Dept of Navy Tr 4362/CNI 2012-a

RUSSIAN, per, Patent No 166520, 13 Jan 1864, pp 1.
*FDU-TT-65-1934

DUTCH, per, TNO Nieuws, No 210, Aug 1965, pp 445-448.
Dept of Nav/T Tr 4363/CNI 2012-b

Development of Instruments for Graphic Determination of the Principal Characteristics of a Supercritical flow in a Curved Channel, of Rectangular Cross-Section, by F. Sananes, T. Acatay.
Dept of Navy Tr 4350/APL No T-1514

Study of the Stopping Power of Various Filters, by Guy Madelaine,
FRENCH, rpt, Ingenieur CNAM, 1964, 9230441
ABC-NP-Tr-1287

Refining Test of the Grain of Cast Beryllium by Combined Mechanical and Heat Treatments, by C. Gasc, J. Barbier.
AEC-BNL-Tr-720

Hall-Type Magnetohydrodynamic Generators, by L. Rothhardt.
*FDU-TT-65-1825

Interference Effects Produced by Gaseous Side-jets Issuing into Supersonic Streams, by P. Maurer.
GERMAN, per, DVL, Bericht, No 382, 1964, pp 3-85.
*Dept of Navy/APL No J-689

Pulse Analysis, by F. A. Fischer.
GERMAN, per, Impulstechnik, 1956, pp 1-39.
Dept of Navy Tr 4347/APL No 7-1400

Stereotrigomat, 47 pp.
GERMAN, rpt, Stereotrigomat, pp 1-36.
ACSI 1-8486
ID 2204050165

Formulas for Transforming Spherical Functions when the Coordinate System Changes Linearly, by Ad. Schmidt.
Dept of Navy Tr 4352/APL No T-1516
**Fuels & Propulsion**

Production of Uranium Carbide Fuel rods Clad with Sap for Irradiation in the NRX Reactor NRX Experiment 716, by R. Kiersy, G. Russo, et al.
ITALIAN, rpt, 1964. 9230567
AEC-ORNL-Tr-798

JAPANESE, rpt, Report No 66 of the National Aeronautics and Space Engineering Research Institute, Japan, pp 1-40.
Dept of Navy Tr 4355/ONI 2011

RUSSIAN, per, Neftepererabota i Neftakhimlya, No 5, 1964, pp 20-22.
*FTD-TT-65-1904

Analytic Filters of Organic Microfibers and Their Use in Determining the Concentration of Aerosols and Dust by K. Spumy, M. Polydorova, et al.
CZECH, per, Pracovni Lekarstvi, Vol XIV, No 8, Oct 1962, pp 389-392. 9230447
AEC-ORNL-Tr-779

Structure of Solid-fuel Boosters, by C. Attali, G. Jube.
FRENCH, per, Doc-Air-Espace, No 92, 1965, pp 33-44.
*Dept of Navy/APL No J-683

*AEC EDC 30 Jan 1966

Hydrogen of Alkali and Kardi Oil, by M. Radnot.
HUNGARIAN, per, Kulonenyomat a *Szamoszet, No 1, 1957, pp 7-9.
*FTD-TT-65-1866

Analyses of Para Ortho Hydrogen and by Gas Chromatography, by Katsuyoshi Fujita Takao Kwan.
AEC-NP-Tr-1289

POLISH, per, Archiwum Mechaniki Stosowalni, Vol 16, No 3, 1964, pp 577-596.
*FTD-TT-65-1826

---

**Scientific Engineering** (Contd)

**Fuels & Propulsion** (Contd)

RUSSIAN, per, Neftepererabota i Neftakhimlya, No 5, 1964, pp 20-22.
*FTD-TT-65-1904

---
RUSSIAN, per, Alyuminanyeve Splatv, No 1, 1963, pp 139-149. 9698214
FTD-TT-65-382


Diffused Zircaloy-2 Stainless Steel Junctions, by Francois Jacques. 
FRENCH, rpt, 1965. CEA-R-2634. 9230597
AEC-Tt-6612

Diffusion Cladding of Metals, by G. V. Samsonov, ed. 
RUSSIAN, bk, Diffuzionnye Plavki Metallov, Moscow, Metallurgical publishing House, 1965, pp 63-123. JPS 32,908

Combination of Plastics With Metal, by I. Alishits. 
RUSSIAN, per, Ekon. Gazeta, 3 Feb 1965, 20. *BISI 4550


Ablation of Metallic Bodies Near the Stagnation Point, by B. I. Reznikov, 8 pp. 

RUSSIAN, per, Inzhenero-Fiz Zhur, Vol VIII, No 1, 1965, pp 93-97. 9698653
FTD-TT-65-866

Spectral Emissivity of some Technical Alloys in the Infrared Spectrum Range, by V. V. Lebedeva. 
RUSSIAN, per, Iz Ak Nauk SSSR, Metal i Gornoye Delo, No 4, 1964, pp 143-146. *FTD-Tt-65-1796

The Effect of Lubricants on the Cold Rolling of Thin Strips and Belts, of VT-14, VT-15, and VT-16 Titanium Alloys, by I. M. Pavlov, S. F. Burkhambrov. 

Cathodic Polarization on Precipitation of Tin-Manganese Alloy From Halide Solutions, by A. V. Izmailov, et al. 

Chlorination of Vanadium-Containing Converer Slag on an Industrial Scale, by S. A. Amirov, et al. 
RUSSIAN, per, Izv. VUZ Tsvet. Met, Vol 3; No 2, 1965, pp 79-84. *BISI 4568


The Nature of Plastic Deformation at Super High Velocities, by Kh. Kortenski, I. Buchvarov. RUSSIAN, per, Mashinostroitel', No 6, Jun 1965, pp 17-17. JPRS 32,787

New Physical and Chemical Methods of Precision Machining, by A. L. Livshits, 23 pp. RUSSIAN, per, Mashinostroitel', No 6, Jun 1965, pp 11-17. JPRS 32,807

Increasing the Ductility of Stainless Steels using Rare Earth Elements, by N. F. Nakonechny, RUSSIAN, per, Metal i Gornorud Prom, Ak Nauk SSR Inst Tekh Informat, No 1, 1964, pp 32, 33. *FID-65-1787


An All-Metal Mercury Vapor Unit in which A 4 · 10^-12 m can Be Achieved, by A. B. Tseytlin, 13 pp. RUSSIAN, per, Pribory i Tekhnika Expereimenta, Vol 10, No 5, Sept-Oct 1965, pp. 177-182. JPRS 33270
*FTD-TT-65-1887

Coating a Metal With Plastic Film, by Sh. Shleymovich.
*FTD-TT-65-1878

The Connection Between the Kinetics of Recrystallization and the Relaxation of Stresses in Metals, by L. N. Alexandrov, V. N. Orlov.
RUSSIAN, per, Sb Relaksats, Yevleniya v Met i Splavakh, 1963, pp 294-299.
*FTD-TT-65-1872

Strain Gates made of Extremely, Thin Metallic Foil, by V. Bin.
RUSSIAN, per, Sbornik Vysokotemperat Tensodat, 1963, pp 125-133.
*FTD-TT-65-1871

Tenth Anniversary of the Cherepovets Metallurgical Plant, by A. I. Borodulin, 7 pp.
RUSSIAN, per, Stal', No 8, Aug 65, pp 873-875.
JPRS 32,664

Extraction of Metal Compounds With Pyrazoline Dithiocarbamates, by V. M. By't'ko.
*NASA TT F-417

RUSSIAN, per, Ukrainskiy Fizichniy Zhurnal, Vol IX, No 8, 1964, pp 881-889, 9230407.
AEC IS-trans-19

*NASA TT F-338

Shipbuilding Steel - Chapter II, by A. M. Veingarten, et al.
RUSSIAN, leningrad, 1962, pp 56-96.
*BISI 4558

RUSSIAN, per, Vest Lenin Univ. Ser Mate. Astron, No 1, 1965, pp 77-83.
*FTD-TT-65-1830

BISI 4441

BULGARIAN, per, Yunehna turgoviya, No 9, Sep 1965, pp 6-9
JPRS 33376

Short Wing Theory and its Application to the Ship Rudder, by Liu, Ying-Chung, Shen, Hung-Ts'ui.
CHINESE, per, Chung 'n'uo Tsoo Ch'uan, No 2, 1964, pp 37-44.
*FTD-TT-65-1853

JPRS 33046

Excitation of Spin Waves During Ferromagnetic Resonance, by J. Loos.
*FTD-TT-65-1840


Information Needed by the Head of the Transport Department in Order to Control and Run His Organisation Under the Best Possible Conditions, by M. Rieusset. FRENCH, rpt, Paper Presented at the International Steelworks Transport Conference at Dusseldorf, 1965, 12. *BISI 4564


The Production of Hot-Rolled Strip, by H. Winterkamp. GERMAN, per, Bande Bleche Rohre, Nov 1960, pp 105-111. BISI 4330

*BISI 4317

New Protective and Decorative Coatings for Sheets, by L. Weckelburg.
GERMAN, per, Blech, Vol 12, Jan 1965, pp 6-11.
*BISI 4553

GERMAN, per, Blech, Vol 12, Feb 1965, pp 55-56.
*BISI 4557

Determining the Life of Rheinmetall Tubes for the 20 mm Hispano Suiza 820 Automatic Cannon, by Bullinger, Mandalka, 11 pp.
ACSI 1-8954-A
ID 2204066765

Square-run Gears for Transporters, by B. Topfer.
*BISI 4551

Selection of Switch Gear for Mains Frequency Induction Furnace Installations, by A. Potthof.
GERMAN, per, Gießerei-Praxis, No 8, 1964, Apr 25, pp 140-154.
*BISI 4280

Strength and Deformation Properties of "Ordinary Structural Steel" Plates in the Thickness Direction, and the Importance of These Properties in Welded Structures, by D. Nagel, W. Schomborr.
GERMAN, per, Materialprüfung, Vol 6, Sep 1964, pp 301-307.
*BISI 4299

*BISI 4567

Safety in Transport and Handling Operations, by A. Plattig.
GERMAN, per, Paper Presented at the International Steelworks Transport Conference at Dusseldorf, 1965.
*BISI 4562

The Notch Effect in Glass Fiber Reinforced Plastics, by W. Feldb.
GERMAN, per, Plaste und Kautschuk, Vol 11, No 10, pp 609-613.
*FTD-UY-65-1842

Identification of Kink Bands in Plastically Deformed Lamellar Pearlite, by H. Proger.
GERMAN, per, Praktische Metallographie, Vol 1, No 4, 1964, pp 136-140.
220406432
AERE-Trans-1035

Some Results of Hot Torsion Tests on Basic Bricks, by A. Starzacher.
GERMAN, per, Radex Rand, No 5, 1964, pp 299-312.
*BISI 4453

Automation on Blast Furnace Operations - II, by H. Huck.
GERMAN, per, Regelungstechnik Praxis, Vol 6, No 2, 1964, pp 60-68.
*BISI 4447 Pt 2

Tube Life of Ionitrided Tube No 31 '26 for the 20 mm Hispano Suiza 820 Automatic Cannon, Technique by Berghaus/Rheinmetall, by Ing. Spengenberg, Mandalka, 9 pp.
ACSI 1-8954-B
ID 2204066765

Foamed Glass - I, by M. Schütz.
*BISI 4570
Scientific Materials & Metallurgy (Contd)

Foamed Glass - II, by E. O. Schulz.
*BISI 4571

*BISI 4457 Pt 2

GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Progress and Problems in Metallurgical Dust-Collecting Plants, by H. Weincke.
GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Crash Barriers - Safety Rails for Roads, by K. Ideberger.
*BISI 4569

Steel Sheet Roads Prove Themselves.
*BISI 4573

A Newly Developed Compound - Cast Steel for Wear Exposed Installations, by A. Hamisch, et al.
*BISI 4584

GERMAN, rpt, Wiederholung des Rohrlebens-
dauerbeschusses eines Nitrierten und
dauerverchromten Rohres fur TP am HS 820
ID 2204866765

GERMAN, per, Zeit fur Metallkunde, Vol LVI, No 13, 1964, pp 731-740. 9230440
AEC-ND-Tr-1284

The Start of Precipitation From Supersaturated Solid Solutions, by H. J. Lippmann, H. Schreiner.
9230481

*BISI 4457 Pt 2

GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Progress and Problems in Metallurgical Dust-Collecting Plants, by H. Weincke.
GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Crash Barriers - Safety Rails for Roads, by K. Ideberger.
*BISI 4569

Steel Sheet Roads Prove Themselves.
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GERMAN, rpt, Wiederholung des Rohrlebens-
dauerbeschusses eines Nitrierten und
dauerverchromten Rohres fur TP am HS 820
ID 2204866765

GERMAN, per, Zeit fur Metallkunde, Vol LVI, No 13, 1964, pp 731-740. 9230440
AEC-ND-Tr-1284

The Start of Precipitation From Supersaturated Solid Solutions, by H. J. Lippmann, H. Schreiner.
9230481

*BISI 4457 Pt 2

GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Progress and Problems in Metallurgical Dust-Collecting Plants, by H. Weincke.
GERMAN, per, Stahl und Eisen, Vol 85, 25 Mar 1965, pp 342-353. BISI 4578

Crash Barriers - Safety Rails for Roads, by K. Ideberger.
*BISI 4569

Steel Sheet Roads Prove Themselves.
*BISI 4573

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*BISI 4584

GERMAN, rpt, Wiederholung des Rohrlebens-
dauerbeschusses eines Nitrierten und
dauerverchromten Rohres fur TP am HS 820
ID 2204866765
Information Needed by the Head of the Transport Department in Order to Control and Run his Organization Under the Best Conditions, by Corvo.
*BISI 4560

*BISI 4562

A Method of Refining of Uranium Ore in Japan, by Hideo Kinoshita.
JAPANESE, per, FAPIG, Vol 27, No 2, pp 121-127, 1963 9239098
AEC NSJ-Tr-8

Some Problems on the Lining of a Large Electric Steelmaking Furnace, by H. Hirayama.
*BISI 4556

AEC NSJ-tr-16

Development of Bonding Methods for Graphite Materials, JAPANESE, rpt, Japan Atomic Energy Research Institute Report JAERI 1671, Feb 1965, 9230445
AEC-OMNI-TR-670

AEC NSJ-tr-20

BISI 4334

JAPANESE, per, Tetsu to Hagane, Vol 50, Sep 1964, pp 1626-1629.
*BISI 4559

Polish-Produced Plastics Used as Substitutes for Non-Ferrous Metals, by Henryk Halas, 13 pp.
POLISH, per, Kosmodraka Materialn, No 17, Sept 1965, pp 599-601
JRSA 33/25

Polish-Produced Plastics Used as Substitutes for Non-Ferrous Metals, by Henryk Halas, 13 pp.
POLISH, per, Kosmodraka Materialn, No 19, Sep 1965, pp 635-637
JRSA 33/29

Tensile Strength of Steel at High Temperatures, by G. Wallquist.
BISI 4028
Scientific
Mathematics & Data Processing

RUSSIAN, per, Dok Ak Nauk SSSR, Vol III, No 1, 1956, pp 19-22.
*Dept of Navy/NRL

RUSSIAN, per, Dopovidi Ak Nauk Ukraine SSR, No 2, 1965, pp 180-184.
*FTD-TT-65-1949

RUSSIAN, per, Geodeziya i Kartografiya, No 11, 1958, pp 29-42. 9698511
*FTD-TT-65-380

RUSSIAN, per, iz VUZ, Matemat, No 1(38), 1964, pp 96-99.
Dept of Navy Tr 4337/APL No T-1480

RUSSIAN, per, iz VUZ, Matemat, No 3(40), 1964, pp 31-31.
*FTD-MT-65-571

A Direct Method of Solving Integral Equations, by B. G. Gabdulkhayev.
RUSSIAN, per, iz VUZ, Matemat, No 3, 1965, pp 51-63.
*Dept of Navy/APL No J-696

Uniqueness of the Solutions of Integral Volterra Equations with a Delaying Argument, by A. I. 'Gomov, Z. B. Tsiyuk.
*Dept of Navy/APL No J-698

-45-

Scientific
Mathematics & Data Processing (Contd)

Numerical Calculation of Flow Around a Flared Cone, by G. S. Rosliakov, N. V. Drodova.
RAND Corporation

RUSSIAN, bk, Priblizhennye Metody Resheniya Differencial'nykh Uravneniy, 1964, pp 52-61.
*FTD-TT-65-1917

Certain Methods of Linearization and Approximate Solution of Nonlinear Functional Equations by B. A. Vergea.
*Dept of Navy/APL No J-702

Computing Machines and Calculation of Installations, by A. V. Gammerling.
RUSSIAN, per, Stroitel'nyi i Kartografiya, No 11, 1962, pp 301-314.
*FTD-TT-65-696

RUSSIAN, per, Trudy Inst Matemat, Ak Nauk UzSSR, 1963, pp 43-48. 9698619
*FTD-TT-65-675

RUSSIAN, per, Trudy Inst Matemat, Ak Nauk UzSSR, 1963, pp 43-48. 9698619
*FTD-MT-65-565

*Dept of Navy/APL No J-695
Scientific Mathematics & Data Processing (Contd)

On the singularity of the solution of Cauchy's Problem for a System for Partial Differential Equations, by N. N. Chaus.
*Dept of Navy/APL No J-601

On the singularity of the solution of Cauchy's Problem for a System for Partial Differential Equations, by N. N. Chaus.
*Dept of Navy/APL No J-601

All-Union Conference on Computer Mathematics, by N. S. Bakhvalov, A. N. Tikhonov.
*FTD-TR-65-1807

Numerical Solution of the Cauchy Problem for Linear Second-order Equations of Parabolic Type, by V. G. Srakovich.
RUSSIAN, per, Zhur Vychisl Matemat i Mate Fiz, Vol IV, No 3, 1964, pp 592-596.
Dept of Navy Tr 4355/APL No T-1474

The Triple Impulse, Excerpt: Asymptotic Paths, by Carl Ludwig Siegel.
9230459
AEC-SC-T-65-749

On the Computation of Flow at Large Knudsen Numbers, by N. M. Kogan.
*FTD-TR-65-1959

Organizational Problems of Tonometry, by G. Strobl.
Dept of Navy Tr 4339/APL No T-1488

Dept of Navy Tr 4340/APL No T-1488

-66-

A New Interpretation of the Mathematical Interpretation of Radioactive Decay, by H. Wolke.
GERMAN, per, Physik Ztschr, Vol XXX, 1929, pp 899-901. 9230462
AEC-ORNL-Tr-707


Formulas for transforming Spherical Functions when the Coordinate System Changes Linearly, by Ad. Schmidt.
*Dept of Navy/APL No J-681

Almost-Periodical or Limited Solutions of Differential Nonlinear Almost-Periodical or Limited Systems, by Luigi Amerio.
AEC-SC-T-65-752
Sources of Gamma-Radiation for Radiation-Chemical Installations, by A. Kh. Breger. RUSSIAN, rap, 7 Apr 1965. 9230541
AEC-Tr-6570

Investigation of Controlled Nuclear Fusion and High-Temperature Plasma Physics, by L. A. Artsimovich, 23 pp. RUSSIAN, per, Atomnaya Energiya, Vol XVII, No 4, 1964, pp 269-278. 9696233
FND-TT-65-961

AEC-TR-65-770

FND-TT-65-943


A Unified Multichannel Telemetering System For the Study of Nuclear Radiations, by A. A. Bragin, R. F. Fedorov. RUSSIAN, per, Fiziko-Mekhanicheskiy Institut, Voprosy Peredachi Informatsii, 1964, pp 118-121. AEC-TT-65-1899


Radiation Phenomena in Ionic Crystals, by K. Shvarts, RUSSIAN, per, Iz AN LatSSR, No 4, 1964. pp 30-37. AEC-TT-65-1734

AEC-NP-Tr-1283

Development of Radioactive Halos in Bovine, by Gunther Hoppe, RUSSIAN, per, Iz An LatSSR, No 16, 1963, pp 328-333. 9230480
AEC-NRNL-T-642

Radiation Spectra of a Detonating Wave in Nitromethane, by A. N. Dremin, S. D. Savrov, 5 pp. RUSSIAN, per, PMT, No 1, Jan, Feb 1965, pp 103-105. Dept of Navy Tr 4328/CNI 2004

AEC-Tr-65-929


Model of the Quantum Theory of a Field With n Fixed Fermions, by V. A. Gorodtsov, 9 pp. RUSSIAN, per, Vest Nauk Inzh, Ser II. Fliz, Astron, No 3, 1963, pp 75-80. 9698620
FND-TT-65-929


The Application of Nuclear Magnetic Resonance to Catalyst Studies, by Hsu, Kuang-Chih. CHINESE, per, Hua Hsueh Shih Chieh, Vol XVIII, No 6, 1964, pp 243-245. *FTD-TT-65-1873


Nuclear Weapons and Defenses Against Them, 26 pp. CHINESE, bk, Yuan-tau-nung ti Yuan-li Ho Ying-yung, Jul 1965, pp 287-303 JPRS 33099


Contribution to the Study of Neutron Propagation in Cavities, by Gilbert Hassellin. FRENCH, rpt, Mar 1965. CEA-R 2774 9231650-V AEC-ORNL-Tr-751

Estimation of the Hydrogen Isotopes and of Their Allotropic Forms in the Gaseous State, by R. Viaillard. FRENCH, per, Comptes Rendus, Vo: CCXVII, 1943, pp 349-351. 9230411 AEC-NP-Tr-1266


Filter Strip Transport Device for Systems For the Measurement of the Radioactivity of Aerosols, GERMAN, Patent No 1,147,326. 9230444 AEC-ORNL-Tr-713

Radioactivity and Pleochroic Halos, by G. Mugge. GERMAN, per, Konstuktionsanlage Julich, January 1964, 9230313. AEC NP-tr-1295

Electrochemical Converters of Nuclear Energy, by G. Gruneberg, 55 pp. GERMAN, bk, Konstuktionsanlage Julich, January 1964, 9230313. AEC NP-tr-1295


**GERMAN, per, Zeit fur Physik Chem, Vol CLXXI, 1934, pp 331-340. 9230475**

**AEC-NP-Tr-1275**

The Plasma Rocket --- The Most Promising Event in Rocket Technology, by Nagy Lorincz.

**HUNGARIAN, per, Repules, No 5, 1965, pp 14-15. 9230488**

**AEC-ORNL-Tr-710**

Measurement of Gamma Backscattering on Concrete Walls, by Kazuo Ito.

**JAPANESE, per, Genshiryku Kogyo, No 3, 1964, pp 22-25. 9230492**

**AEC-BNL-Tr-422**


**POLISH, rpt, Institute of Nuclear Research, Warsaw, Oct 1964. 9230513**

**AEC-BNL-Tr-22**


**RUSSIAN, per, Patent No 169826. 9230529**

**AEC-TT-65-1944**


**RUSSIAN, bk, Aktinometriya, Leningrad, 691 pp. 9230544**

**AEC-BNL-Tr-7**

On the Motion of Particles in Symmetric Fields, by R. Klima.


**AEC-BNL-Tr-9712**


**HUNGARIAN, per, Szamler, No 5, 1965, 7 pp. 9230588**

**RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 164, No 3, 1965, pp 545-548. JFM 33348**

Granulometric Study of Plutonium Oxide Particles in Suspension in the Atmosphere of a Foundry Chamber during U-Pu Alloy Fabrication, by G. Bataller, S. Lenkauer.

**RUSSIAN, rpt, TAE-R-2558, 9230591 AEC-BNL-Tr-27**


**RUSSIAN, per, Inst Mekh Ak Nauk SSSR, Inzen Sbornik, Vol X=II, 1955, pp 65-73. 9230599**

**AEC-ORNL-Tr-95**

Statistical Properties of Nonlinear String, by F. M. Izrailev, B. V. Chirikov.

**RUSSIAN, rpt, Institute of Nuclear Physics of the Siberian Branch of the Acad of Science, Novosibirsk, 865, 9230600**

**AEC-ORNL-Tr-78**


**RUSSIAN, rpt, Institute for Theoretical and Experimental Physics, Moscow, Jan 29, 1964. 9230645**

**AEC-BNL-Tr-25**

-99-
Scientific Physics (Contd)

Dept of Navy Tr 4349/APL No T-1493

*FTD-TT-65-1923

*FTD-TT-65-1979

*FTD-TT-65-1925

*FTD-TT-65-1975

Some Experimental Data on the Effect of Pressure upon Oscillatory Spreading of a Flame in a Tube, by V. V. Kurzhunov. RUSSIAN, per, Inzh. Fiz. Zhurnal, No 7, 1964, pp 117-118.
*FTD-TT-65-1976

*FTD-TT-65-1977

*FTD-TT-65-1978

-70-

Scientific Physics (Contd)

Dept of Navy Tr 4349/APL No T-1512

*FTD-TT-65-1979

*Dept of Navy/APL No J-705

*Dept of Navy/APL No J-704

*Dept of Navy/APL No J-700

*FTD-TT-65-1948

On the Problem of Orthotropic Plate Oscillations Placed in a High-Temperature Field, by S. A. Ambartsumyan. RUSSIAN, per, Iz AN SSSR Vychislitel'naya i Mashinostroyenye, No 4, 1965, pp 133-137.
*FTD-TT-65-1951
Scientific Physics (Contd)

Determining the Optimum Heating Rate for Certain Bodies, by A. A. Shevelev.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Energet., No 11, 1961, pp 77-83.
*FDT-TT-65-1310

Methods of Experimental Determination of the Distribution of Linear Energy Transfer and the Quality Factor of Penetrating Energy, by V. N. Lebedev.
RUSSIAN, rpt, Joint Institute for Nuclear Research, Dubna, Report No P-2069
9230438
AEC-NP-Tr-1267

*FDT-TT-65-1889

N. I. Kalinina, Leningrad Polytechnic Institute, by V. S. Smirnov, 21 pp.
9698439
*FDT-TT-65-411

RUSSIAN, per, Optika i Spektrosp., Vol IV, No 6, 1958, pp 709-714.
*AEC
EDC-30 Jan 1966

RUSSIAN, per, Patent No 169559.
*FDT-TT-65-1943

JPRS 33116

JPRS 33116

JPRS 33116

JPRS 33116

JPRS 33116

Plasma and Electronic Microwaves Oscillators and Amplifiers, by Z. S. Chernov.
RUSSIAN, bk, Plazmenn'e i Elektromn'e Usiliteli i Denerator' svu.
"CB"

RUSSIAN, per, Problemy Energetiki, 1959, pp 735-744. 5698518
FDI-N-64-523

RUSSIAN, bk, Prochnyye Elementy Pnevmaticheskikh Priborov Kontrola i Upravleniya, Moscow, 1961, 246 pp.
9698784-V
FDI-TT-65-168
Range Distribution of the Isobaric Sequences and the Range of the Fragments Caused by Thermal Fission of Pu-239, by Martin Hohlestein, RUSSIAN, rpt, Feb 1965. 9231067
AEC-UCLR-Tr-1253-L

X-Ray Determination of the Coefficient of Thermal Expansion, by A. M. Belkov, RUSSIAN, per, Sbornik Nauch-Teh. Institut Yadernoy Fiziki, No 1, 1960, pp 139-144. 9230469
AEC-IA=T-65-20

AEC-NP-Tr-1305

Angular Correlation Between γ -Mesons and Leptons and the Determination of Form Factors in KF3-Decay, by I. S. Tsukerman, RUSSIAN, rpt, State Committee on the Use of Atomic Energy, USSR, Institute of Theoretical and Experimental Physics, Moscow, 1964. 9230431
AEC-Tr-6608

Determination of the Kinematics of the Reaction \( p + p \rightarrow \pi^+ + \pi^- + \pi^0 + \pi^0 \): The Study of the \( p + p \rightarrow \pi^+ + \pi^- + \pi^0 \) Reaction at an Energy of 2.5 GeV, by V. K. Grigor'ev, A. P. Grishin, RUSSIAN, rpt, State Committee on the Use of Atomic Energy, USSR, Institute of Theoretical and Experimental Physics, 1964. 9230430
AEC-Tr-5991

AEC NP-tr-1265

*FTD-TT-65-1961

Some Variational Methods of Solving Problems in the Theory of Elasticity by A. I. Kuzikov, RUSSIAN, per, Trudy Kazan Aviatsionnyy Institut, No 77, 1963, pp 24-34.
*FTD-M-65-580

*FTD-M-65-580

*FTD-M-65-580

*FTD-TT-65-1954

AEC-Tr-6567

On a Boundary Problem Connected With the Calculation of a Prismatic Shell of Varying Thickness, by D. Kasinov, RUSSIAN, per, Uchenye Zapiski, No 7, 1956, pp 3-21.
*FTD-TT-65-1800

Reflection of Electromagnetic Waves From the Open End of a Waveguide, by S. S. Kasemkova, 7 pp. UKRAINIAN, per, Ukryans'ky Fiz Zhur, Vol IX, No 6, 1964, pp 593-598. 9698634
FTD-TT-65-646

**Scientific Physics (Cond)**

Russian, per, Ukrain's'kyi Fizychnyy Zhurnal, Vol 9, No 9, 1964, pp 1077-1080.

**FTD-TT-65-1920**


**Scientific Physics (Cond)**


**9230595**

**AEC-NP-Tr-1292 Draft**


**Scientific Physics (Cond)**

Russian, per, Vest Leningrad Univ, Ser Fiz, Mezh 1 Astron, No 4, 1962, pp 62-76.

**FTD-T-5-1806**

High Frequency Region of the Noise-Formation Spectrum of a Jet Stream, by V. A. Krasil'nikov, A. E. Shikhinskaya.

**Scientific Physics (Cond)**

Russian, per, Vystnik Institut Seriya III, Fizika Astronomiya, No 3, 1964, pp 72-81.

**FTD-M-65-568**

Generation of the Second Harmonic of Light in a Thin Crystal Layer, by Yu. A. Gol'din.

**Scientific Physics (Cond)**


**AEC-Tr-6572**

Cycloliner Polyphaylsiloxane, by S. A. Pavlova, V. I. Pakhomov, et al.

**Scientific Physics (Cond)**


**9230478**

**AEC-SC-T-65-744**


**Scientific Physics (Cond)**


**9298652**

**FTD-TT-65-776**

Approximate Determination of Gas Parameters Behind a Shockwave Front from the Law of Motion of the Front, by V. V. Andruskin, I. V. Neschinov.

**Scientific Physics (Cond)**


Dept of Navy Tr 4346/APL No T-1482


**Scientific Physics (Cond)**

Russian, per, Zhur Priklad Mekh i Tekh Fiz, No 30, 1964, pp 162-163.

Dept of Navy Tr 4331/CNI 2007
The Neutralization of Spherically Approximate Calculation of the Theory of Divergent Fluxes of Charged Particles, by V. A. Levin. 

CZECH, per, Chekhoslovatskiy Fizicheskiy Zhurnal, Vol 14, No 7, pp 533-554. *FDN-TT-65-1840

RUSSIAN, per, Zhurnal Tekh Fiz, Vol XII, 1942, Temperature, by C. Moreau, J. Philippot. 
FRENCH, per, Comptes Rendus, Vol CCLIX, pp 4295-4298. 9230410

The First National Meeting of Engineering Thermal Physics, by Wu Chung-hua, 8 pp. 
CHINESE, per, K'o-hauh T'ung-pao, No 10 Oct 1965, pp 933-935. JPRB 32985


The Thermodynamic Analysis of Liquidus Curves of Intermetallic Compounds, by Karl Hauffe and Carl Wagner. GERMAN, per, Ztschr Elektrochem, Vol XLVI No 3, 1940, pp 155-170. 9230449


Determining the Power Required by Plasma of a High Frequency Ion Source, by A. Lipinska, H. Malecki, 10 pp. POLISH, per, Nukleonika, Vol IX, No 9, 1964, pp 705-713. 9698615


Miscellaneous


Introduction to Cybernetics, by H. Sobotta, 14 pp. GERMAN, per, Messen - Steuern - Regel., No 11, 1964, pp 121-124. 9094416

PTB-77-65-1227
INFORMATION RECEIVED DURING DECEMBER

ON COVER-TO-COVER TRANSLATIONS

Office of Technical Services TT 65-50399/3

Office of Technical Services TT 64-11407/4

Office of Technical Services TT 64-11407/5

Office of Technical Services TT 64-11412/5

Office of Technical Services TT 65-50305/3

Joint Publications Research Service 33403

CB

JPRS

Elektrosvyasy', Vol IX, No 7, 1965, July
Institute of Electrical and Electronics Engineers

Amer Inst of Phys
Sov Phys - Sol State
Vol VII, No 6, Dec 1965

Fiziolohiya Rastenii, Vol XI, No 6, Nov,
Dec 1964.
CB

Genetika, No 1, 1965.
JPRS 33170

Geochemistry, No 5, 1964.
Geochemical Society

The Geotechnical Society of America

Office of Technical Services TT 64-11460/1-2

JPRS

Izvestiya Akademii Nauk SSSR, Serya Fizicheskaya, No 6, June 1965.
American Geophysical Union

JPRS 33032

JETP Pis'ma v Redaktsiyu, Vol II, No 3, 1 Aug 1965
American Institute of Physics
JETP Letters

American Institute of Physics
JETP Letters

JETP Pis'ma v Redaktsiyu, Vol II, No 5, 1 Sept 1965.
American Institute of Physics
JETP Letters

JETP Pis'ma v Redaktsiyu, Vol II, No 6, 15 Sept 1965.
American Institute of Physics
JETP Letters

Kibernetika, No 4, July-August 1965.
JPRS 33371
CONTENTS


J. Pawelkiewicz and B. Zagala, Enzymic conversion of glycerol into β-hydroxypropionaldehyde in a cell-free extract from Aerobacter aerogenes .......................................................... 207

B. Zagala and J. Pawelkiewicz, Synthesis and properties of Co-adenine nucleoside analogues of coenzyme B12 ............................................................. 219

Joanna Rytka and W. Tysarowski, Isolation and properties of D-lactate dehydrogenase from yeast grown anaerobically ........................................... 229

K. Kleczkowski, L-Glutamine as donor of carbamoyl group nitrogen for the enzymic synthesis of citrulline in green pea seedlings ........................................ 243

W. Tysarowski and Anna Konecka, EDTA as inhibitor of ferricyanide reduction by glutathione and cysteine .............................................................. 251

Z. Szafrań, Hydrolysis of fatty acyl esters of p-nitrophenol by homogenates of intestinal mucosa of different animal species ........................................ 259

M. Bagdasarian, Low-molecular weight peptides synthesized in ribosomal preparations as possible precursors of proteins ........................................ 263

Zofia Lassota, Uric acid in normal and γ-irradiated eggs of Bombyx mori .......................................................... 271

Books reviewed .......................................................... R23

Available From Office of Technical Services TT 65-50309/3
ACTA PHYSIOLOGICA POLONICA
Vol. XV, No. 4, 1964

CONTENTS

Wierzuchowski M.: Resting Pattern of Integrative Glycemiometry on the Background of Osmotic Diuresis ............... 395

Sadowski B., Kruk B.: Lymphopenic Response in Rabbits as Expression of Activation of the Pituitary-Adrenal System in Functional States Produced by Electric Stimulation of the Brain .................. 412

Markiewicz L., Miszturo W., Brzezińska Z., Sawicka A.: Biochemical and Morphological Changes in Brain Tissue due to Vibrations .......... 427

Edelcsejn Z.: Effect of High Temperature on Muscle Bioelectric Activity .......... 433

Paradowski A.: Influence of Urea on the Heart .............. 440

Miętłkowski E., Lichota E.: Comparative Studies on Blood Transaminase Activity in Experimental Shock. III. Activity of Serum GOT and GPT in Burn and Electric Shock .......... 448

Szubalski Z., Konturek S., Radecki T., Horzela T.: Kinetics of Blood Clearance of 131I Dog Lymph Lipoproteins ........ 453

Patyra S., Nagórna-Stankow B.: Effect of Coumarin on Blood Coagulation in Rabbits .......... 459


Kleinrok Z.: Influence of N-Carboethoxy-N-Phthalazinehydroazine Hydrochloride (Binazine) on the Formation of Conditioned Fear Phobic Reflexes in White Rats .......... 474

Goroshtchenniya K., Nikiľorov A.: Influence of Chloroform, Ether and Combinations of Ether and Aminazine (Chlorpromazinum Hydrochloricum) on Posture Reactions in Birds with Damaged Pro- and Mesencephalon .......... 479

Kaciuba-Ucllko R., Stupnički R.: Histological Changes Occurring in the Thyroid of Birds in the Course of Growth .......... 487

Chołnowska I., Chołnowski W., Myszkowski L.: Comparative Study on Serum Protein of Arterial and Venous Blood in Rabbits .......... 497

Cząka S., Rakalska Z.: Experimental Extirpation of the Pineal Gland in Rats .......... 502


Available From Office of Technical Services TT 64-11407/4
# Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holobut W.: Polish Physiological Society, its Development in the Twenty Years of Democratic Poland</td>
<td>517</td>
</tr>
<tr>
<td>Paradowski A., Jarzeba W., Gokl A.: Effect of Urea on the Frog Heart in Dependence on the Electrolyte Level in the Nutrient Fluid</td>
<td>528</td>
</tr>
<tr>
<td>Miętkiewski E., Klimek R.: Influence of Ultraviolet Radiation on the Sugar Level in Rabbit Blood</td>
<td>537</td>
</tr>
<tr>
<td>Miętkiewski E., Lichota E.: Comparative Studies on the Activity of Blood Transaminases in Experimental Shock</td>
<td>548</td>
</tr>
<tr>
<td>IV. Serum GOT and GPT Activity in the Insulin and Peptone Shock</td>
<td>554</td>
</tr>
<tr>
<td>Garbuliński T., Dobrowy J.: High Energy Heart Phosphates in the Light of Histamine Action</td>
<td>560</td>
</tr>
<tr>
<td>Cytawa J.: Studies on the Fatigue of Conditioned Reflexes. I. Fatigue of the Alimentary Motor Conditioned Reflexes</td>
<td>569</td>
</tr>
<tr>
<td>Bielski J., Rożynkowska D.: Effect of Experimental Atherogenic Diet on Blood Coagulation in Rats</td>
<td>573</td>
</tr>
<tr>
<td>Misiewicz L.: Studies on the Oxytocic Properties of Human Uterine Mucosa Secretion in the Course of Menstrual Cycle</td>
<td>580</td>
</tr>
<tr>
<td>Jakimowska K. Szafan H.: Effect of Lippopolysaccharide from Escherichia Coli on Renal Function</td>
<td>595</td>
</tr>
<tr>
<td>Jakimowska K., Wątkiewicz K., Venulet J.: Pharmacology of p-Nitrophenylguanylurca Hydrochloride (T-72)</td>
<td>601</td>
</tr>
<tr>
<td>Stupnicki R.: Determination of Ketosteroids in the Form of their 2,4-Dinitrophenylhydrazones in Biological Material</td>
<td>613</td>
</tr>
<tr>
<td>Obituary: P. S. Kupalov.</td>
<td>626</td>
</tr>
<tr>
<td>Proceedings of Branches of the Polish Physiological Society</td>
<td>628</td>
</tr>
</tbody>
</table>

Available From Office of Technical Services TT 64-11407/5
CONTENTS

S. Biniecki, Z. Kolodyńska: Synthesis of 7-Demethoxy-7-(ω-dialkylaminopropyl)ethyleneamino-colchicines ............................................. 443

W. Sobieczewski, S. Biniecki: Preparation of Some Methylamino Derivatives of Tetracyclines by the Mannich Reaction. Part I. ......................... 448

H. Foks, J. Sawlewicz: N-Oxides of 2-Pyrazinecarboxylic Acid ................................................................. 458


I. Zawadowska: Synthesis of Some Sulfophenoxyacetic Acids ................................................................. 483


I. Gruda: Studies in Hypotensive Substances. IV. Derivatives of N-Alkyl-o-toluidine ................................................................. 498

LETTER TO THE EDITOR

H. Dudek: New Sensitive Colorimetric Method for Determination of Small Amounts of Urea ................................................................. 512

Available From Office of Technical Services TT 64-11412/5
CONTENTS

TADEUSZ M. LACHOWICZ: The Mechanism of Antagonism between Antigenic Types of Dysentery Bacilli of the Shigella flexneri Subgroup ........................................... 277

STEFAN ŚLÓPEK, KRYSPINA GRZYBEK-HRYNCEWICZ, JADWIGA ŁADOŚ and KRYSTYNA KUBIS: Opsonizing Factors in Rat Serum. I. Serum Components Stimulating Phagocytosis of Staphylococcus aureus ............................................. 302

STEFAN ŚLÓPEK, KRYSPINA GRZYBEK-HRYNCEWICZ, JADWIGA ŁADOŚ and KRYSTYNA KUBIS: Opsonizing Factors in Rat Serum. II. Serum Component Taking Part in the Phagocytosis of S. typhimurium ............................................. 312

STEFAN ŚLÓPEK, KRYSPINA GRZYBEK-HRYNCEWICZ, JADWIGA ŁADOŚ and KRYSTYNA KUBIS: Opsonizing Factors in Rat Serum. III. Inhibitor and Phagocytosis-stimulating Factor for S. sonnel Phase II Bacilli ............................................. 318

STEFAN ŚLÓPEK, JADWIGA ŁADOŚ and KRYSPINA GRZYBEK-HRYNCEWICZ: An Attempt to Identify the Components of Complement in Rat Serum Immunoelectrophoretically ............................................. 324

TEOFIL SZULGA, ALFRED SZARO, JANINA MĄDRA and HALINA KOWALCZYK: Classification of Acid-fast Bacilli Isolated from the Milk of Cows and from Sewage used for Fertilizing Pastures. II. Type Determination of Virulent Bacilli ............................................. 331

TEOFIL SZULGA, ZWONKIEW WIECZOREK, JANINA MĄDRA and HALINA KOWALCZYK: Classification of Acid-fast Bacilli Isolated from the Milk of Cows and from Sewage used for Fertilizing Pastures. III. Identification of Atypical Bacilli (IInd and IIIrd Groups) ............................................. 336

TEOFIL SZULGA, ADAM SKURSKI and WIESŁAW PELC: Studies on the Occurrence of the Cord Factor in Atypical Mycobacteria ............................................. 344

ZOFIA SKURSKA, ZOFIA BLACH, ALICJA SYPUŁOWA and ZOFIA TOMASZEWSKA: The VMK Variant of a Strain of Poxvirus Officinale. I. Morphology of HeLa Cells Infected with the VMK Virus ............................................. 355

JANINA KWIATKOWSKA: Phosphofructokinase Activity of Blood Cells in Leukemia ............................................. 364

STANISŁAW E. KAPPIAK and HENRYK IWANOWSKI: The Influence of Phosphorylase on Hydrolysis of Glycogen in Muscle Extracts ............................................. 368

BÓRZENA ZAURSKA: Microscopical Studies on Porphyrins in Harder’s Gland and in Tumors Induced in It. II. Histotopography of Porphyrins and Growth of Transplanted Sarcoma in Harder’s Gland in White Rats ............................................. 377

EDMUND STOKŁOSA and JAN BEKIER: Morphologic Changes in the Pulmonary Parenchyma after Single Irradiation with Small Doses of X Rays ............................................. 391

STEFAN M. POJDA: Methods of Calculating Oxygen Consumption by Tissues in the Fatty Liver of White Rats ............................................. 399

Available From Office of Technical Services TT 65-50305/3
TRANSLATIONS FROM CHING-CHI YEN-CHIU (ECONOMIC RESEARCH)
NO 10, 1965
- Communist China -

Following is a translation of eight articles in the Chinese language monthly Ching-chi Yen-chiu (Economic Research), Peiping, No. 10, October 1965. Complete bibliographical information accompanies each article.

CONTENTS

<table>
<thead>
<tr>
<th>Article</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Goal of Socialist Production and Operation</td>
<td>1</td>
</tr>
<tr>
<td>The Development of Diversified Operations</td>
<td>10</td>
</tr>
<tr>
<td>Commercial Work and Diversified Operations</td>
<td>43</td>
</tr>
<tr>
<td>Rural Class Line During Socialist Period</td>
<td>56</td>
</tr>
<tr>
<td>Correct Handling of Financial Relations Between the State and State Enterprises</td>
<td>72</td>
</tr>
<tr>
<td>The Specialization of Lathe Repairs</td>
<td>94</td>
</tr>
<tr>
<td>Industrial Technical Innovation and Technological Revolution in China</td>
<td>109</td>
</tr>
<tr>
<td>Economic Theory Work to Face Countryside</td>
<td>126</td>
</tr>
</tbody>
</table>

Available from Joint Publications Research Service 33403
## CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measurement of the Impedance of an Iron Electrode by Means of Alternating Current</td>
<td>101-123</td>
</tr>
<tr>
<td>Faraday Impedance of Reversible Catalytic Processes. II. Catalytic Evolution of Hydrogen from Solutions of Pyridine, ( \alpha )-Picoline, ( \alpha )-( \alpha' )-Lutidine and ( \alpha )-( \gamma )-Lutidine</td>
<td>108-130</td>
</tr>
<tr>
<td>The Equilibrium Potentials of Zirconium in Molten Cesium Chloride—V. Ya. Kudyakov and M. V. Smirnov</td>
<td>118-143</td>
</tr>
<tr>
<td>A Study of the Kinetics of Electrode Processes on a Zinc Amalgam in Ammonia Solutions</td>
<td>123-149</td>
</tr>
<tr>
<td>The Adsorption of Sulfide Ions at a Mercury-Solution Boundary—B. A. Kislev and S. I. Zhdanov</td>
<td>132-159</td>
</tr>
<tr>
<td>Finding the Adsorption Characteristics of Organic Compounds on a Mercury Electrode from the Polarographic Charging Currents—S. G. Mairanovskii</td>
<td>136-164</td>
</tr>
<tr>
<td>The Potential of a Platinized Platinum Electrode in Methanol Solution</td>
<td>151-182</td>
</tr>
<tr>
<td>The Influence of the State of the Cathode Surface on the Kinetics of the Electrolytic Reduction of Chromic Acid—Z. A. Solov'eva and A. T. Vagramyan</td>
<td>156-188</td>
</tr>
</tbody>
</table>

(Continued)
CONTENTS (continued)

The Influence of Adsorption on the Distribution of Potential at a Germanium—Electrolyte Interface—V. V. Eletskii and Yu. V. Pleskov ........................................ 161 194
Study of the Mechanism of Oxidation Hydrogenation and Electrochemical Combustion on Solid Catalysts. XIII. The Dependence of the Number of Active Centers of Carbon on the Temperature of Its Activation—O. K. Davtyan and Yu. A. Tkacht ........ 172 207
Several Problems in the Theory of Alloy Electrodeposition, XI. Influence of Surface-Active Materials on the Phase Structure of Electrolytic Copper-Lead Alloys—Yu. M. Polukarov and V. V. Grinina ................................................ 176 212
The Ionization of Oxygen at a Three-Phase Boundary in Alkaline Solutions. The Specific Features of the Ionization Conditions and the Distribution of the Process Along the Length of the Film—Yu. A. Mazitov ........................................ 181 218
Calculation of the Current Distribution at a Cathode by the Method of Straight Lines

BRIEF COMMUNICATIONS

-A. N. Trofimov and V. T. Ivanov ........................................ 186 224
The Electrochemical Hydrogenation of Aromatic Aldehydes and Ketones—S. G. Masanovskii and V. N. Pavlov .................................................. 189 226
The Influence of Electric Current on the Rate of Dissolution of Nitrogen in Melten Oxides—V. M. Kamyshov, O. A. Esin, S. K. Chuchmatev, and A. A. Dobryden' .............................. 190 227
The Influence of Halide Ions and Organic Surface-Active Agents on the Discharge of Hydrogen Ions at a Copper Electrode in Acid Solutions—Z. A. Iofa and V. A. Makarova .................. 193 230
The Nature of the Luminescence of the Layer Next to the Anode during Electrolysis with an External Anode—V. D. Saprykin ........................................ 197 234
The Thermodynamic Properties of Cobalt Chromite from Electrochemical Measurements at 1270-1400 K—V. A. Levitskii, T. N. Rezukhina, and A. S. Guzei ........................................ 200 237
Measurements of the Differential Capacity on Liquid and Solid Mercury in Methyl Alcohol—E. S. Sevastiyanov and D. I. Leikis ................................................ 203 239
The Capacity of the Electrical Double Layer in Concentrated Salt Solutions—D. P. Aleksandrova and D. I. Leikis .................................................. 205 241

BOOK REVIEWS

The Encyclopedia of Electrochemistry—Reviewed by A. N. Frumkin ........................................ 207 244
Electrochemistry. Theoretical Principles and Practical Applications—Reviewed by B. B. Damaskin .................................................. 209 245

The Russian date "Podpisano k pechati" of this issue was 2/24/1965. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Available From Consultants Bureau
# CONTENTS

## PART 1

**ELEKTROSYSTEMY**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. I. Nazarov: Reception of Signals of &quot;Phase-Shift&quot; Duplex Relative Phase Telephony Systems</td>
<td>1</td>
</tr>
<tr>
<td>N. I. Kozlenko: Noise Immunity of Transmission of Clipped Speech Signals by the Method of Phase Telegraphy</td>
<td>8</td>
</tr>
<tr>
<td>V. V. Shakhgil'dyan: Influence of a Phase-Modulated Reference Signal and Noise on a Phase AFC System</td>
<td>15</td>
</tr>
<tr>
<td>V. G. Osipenko: Study of Processes in Linear Systems, Based on the Use of Fourier Series and Convolution Theorems of Periodic Functions</td>
<td>32</td>
</tr>
<tr>
<td>N. V. Rezhinakov: Definition of the Busy Hour for Urban Telephone Offices</td>
<td>40</td>
</tr>
<tr>
<td>B. S. Livshits and G. B. Khanin: Low and Medium Capacity Crossbar Exchanges</td>
<td>44</td>
</tr>
<tr>
<td>M. I. Mikhailov and S. A. Sokolov: Reducing the Cost of Protecting Cable Mains from Direct Lightning Action</td>
<td>50</td>
</tr>
</tbody>
</table>

**BRIEF COMMUNICATIONS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. E. Znamenskiy: Pulse Signal Transmission Route with the Frequency Limited from Below</td>
<td>53</td>
</tr>
<tr>
<td>B. R. Levin and Ya. A. Fomin: Dispersion of Coincidence Pulse Time Modulation in a Strong Signal</td>
<td>55</td>
</tr>
<tr>
<td>N. F. Zyuzev: Spectrum of a Phase Keyed Signal at the Output of an Ideal Amplitude Limiter</td>
<td>58</td>
</tr>
<tr>
<td>N. F. Semenyuta: Synthesis of Wide-Band Phase Shifters</td>
<td>60</td>
</tr>
<tr>
<td>V. V. Kuznetsov and V. V. Kislyak: Study of Television Signal Propagation in Mountainous Regions</td>
<td>63</td>
</tr>
</tbody>
</table>

## PART 2

**RADIOINFORMIKA**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. S. Neyman: Molecular Memory Systems and Directed Mutations</td>
<td>67</td>
</tr>
<tr>
<td>Yu. S. Lezin: Numerical Characteristics of a Mixture of Signal and Noise at the Output of an Autocorrelator</td>
<td>72</td>
</tr>
<tr>
<td>Ye. Yu. Shered'ko: Radiation Field of a Unifilar Logarithmic-Elliptic Helical Antenna</td>
<td>76</td>
</tr>
<tr>
<td>A. A. Yanishevskiy: Instantaneous Automatic Gain Control Circuits</td>
<td>81</td>
</tr>
<tr>
<td>L. S. Katanskiy: Decoupling of Oscillators by Means of a Passive Linear Network</td>
<td>85</td>
</tr>
<tr>
<td>V. V. Shakhgil'dyan and A. A. Lyakhovkin: Choice of the Low-Pass Filter in a Phase Automatic Frequency Control Circuit to Minimize the Frequency Variance of the Locked Oscillator</td>
<td>88</td>
</tr>
</tbody>
</table>

**DISCUSSION**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>P. G. Tager: Ideal and Real Stereophonic Systems</td>
<td>93</td>
</tr>
<tr>
<td>E. A. Akhurin: Use of Tunnel Diodes in Superregenerative Amplifiers</td>
<td>98</td>
</tr>
<tr>
<td>V. A. Styblin: Instability of Tunnel Diode Frequency Converters</td>
<td>104</td>
</tr>
<tr>
<td>L. S. Gutkin: Comparison of Actual and Optimum Direction-Finding Accuracy Part I: Continuous Signals</td>
<td>107</td>
</tr>
<tr>
<td>S. M. Latinekiy: Deviations in Radar Measurements</td>
<td>118</td>
</tr>
<tr>
<td>A. I. Alekseyev: Choice of Signals for the Transmission of Discrete Information</td>
<td>125</td>
</tr>
</tbody>
</table>

**BRIEF COMMUNICATIONS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>M. S. Neyman — On His Sixtieth Birthday</td>
<td>129</td>
</tr>
<tr>
<td>New Books</td>
<td>131</td>
</tr>
</tbody>
</table>

Available From the Institute of Electrical and Electronics Engineers

- 87 -
CONTENTS

PART 1

ELEKTROSYOS'YAZ
Vol. XIX

Page

PART 1

G. B. Davydov: Estimation of the Parameters of a Phase-Correcting Circuit for High-Selectivity Communication Channels ........................................... 1
V. E. Bukhviner: Automatic Monitoring of Communication Quality in Radio Telegraphy ................................................................. 8
V. D. Kuznetsov and V. K. Paramonov: A System for Multiple Utilization of a USW Receiving Antenna ....................................................... 13
N. I. Kholshikov, L. A. Kozlov and V. L. Bykov: An International Experiment on Radio Communication Via an Artificial Satellite of the Earth and Via the Moon .... 19
O. N. Ivanova: Algorithms for the Operation of Switching System Control Circuits .......................................................... 24
M. E. Mazurov: Measurement of Small Phase Modulation by the Lissajous Figures Method .............................................................. 32
M. E. Movshovich: Design of Complex Capacitive Diode Converters .............. 38
N. A. Zisman: A New Three-Channel System for Multiplexing Overhead Communication Lines .................................................... 43
A. S. Novoselov and S. A. Sokolov: The Magnitude of the Voltages Produced by Lightning Discharges in Balanced Cables at the Inputs to Repeater Stations .... 49

BRIEF COMMUNICATIONS

A. A. Glukhov: Study of the Noise Voltage Levels in Wire Broadcast Routes ........ 55
B. I. Tverdov: On a Method of Improving the Accuracy of CRT Telegraphy Distortion Meters .............................................................. 60
V. I. Teterov: The Connection between the Distribution Functions for the Zeros in a Harmonic Signal and Its Frequency Characteristic in the Case of Extreme Amplitude Limiting ...................................................... 62

INFORMATION

E. D. Dobronevskiy: Organization of Patent Information in the USSR .............. 64
New Books .............................................................................. 65
In Our Forthcoming Issues ..................................................... 66

PART 2

Radiotehnika
Vol. XX

Page

E. V. Zelyakh and A. V. Kisel': Canonical Configurations of Two-Terminal Networks Consisting of Impedors of Two Types .................................................... 67
S. K. Savin: Fourier Analysis of a Periodic Pulse Sequence ......................... 73
M. B. Kaplunov: Best Screened Single-Wire Surface-Wave Transmission Line .... 74
BRIEF COMMUNICATIONS

M. G. Vitkov: Skin Effect in a Semiconductor Cylinder ................................ 87
N. V. Bobrov: Conditions of Maximum Amplification of a Tuned Amplifier for a Given Bandwidth .............................................................. 89
R. L. Drabkin: Apparatus for Extracting a Signal from Fluctuation Noise and Measuring Its Phase ........................................................... 91
Yu. B. Novitsky: Nonlinear Forced Oscillations in a Phase AFC System ............ 99
BRIEF COMMUNICATIONS

V. F. Neiteruk: Optimum Pulse Shape in a Limiter-Filter System ................. 103
V. K. Semenovskiy: The Generation of Short Pulses with High Repetition Frequency by Means of a Transistor Blocking Oscillator ....................... 106
V. V. Tsetnov and V. I. Karandasov: Fluctuation Errors of Correlation Meters .... 111
Yu. G. Poliyuk: Comparative Tests of Equipment Accuracy and Reliability ....... 119
BRIEF COMMUNICATIONS

V. V. Avdeev: Optimum Direction-Finding Accuracy of a Coherently Fluctuating Target ............................................................... 127
A. D. Arym: Definition of an Active Electrical Circuit ................................ 128
Letters to the Editors .................................................................. 128
V. I. Arkhangelsky: Book Review .................................................... 129
Zurab Vladimirovich Tovaria (On His Sixtieth Birthday) ................................ 131
New Books .............................................................................. 132

Available From Institute of Electrical and Electronics Engineers

- 88 -
CONTENTS

Vol. 7, No. 6, pp. 1299-1554 December, 1965

Theory of the Coalescence of Pores with a Gas. Z. K. Saralidze and V. V. Slezov ........................................ (T) 1299 1605
A Contribution to the Theory of Spin Absorption by Donor Electrons in Semiconductors. A. F. Volkov ............... (T) 1304 1612
Some Peculiarities of the Focusing of Atomic Collisions in Cathode Sputtering from Tungsten and Molybdenum Single Crystals. R. A. Ashmyanskii, M. B. Benyaminovich, and V. I. Vekaler ................. (E) 1314 1623
Impurity and Induced Photoconductivity of Chalcogenide Glass Ti$_2$Se$_2$-As$_2$Te$_5$. B. T. Kolomiets, T. N. Mamontova, and G. I. Stepanov ... (E) 1320 1630
Investigation of Some Inorganic Dielectric Materials in the Far Infrared. M. D. Mashkovich and A. I. Demeshina ........ (E) 1323 1634
On the Interaction of Conduction Electrons with Lattice Vibrations in a Semiconductor. M. I. Kheifets ............... (T) 1331 1642
Relationship Between Dislocation Density and Stresses Resulting from Deformation of LiF Crystals. B. I. Smirnov and Yu. I. Patrikeev ........................................ (E) 1336 1649
Distribution of Divalent Impurities During the Growth of NaCl Single Crystals. G. A. Andreev .................................................. (E) 1339 1653
Mössbauer Spectra in the Presence of Electric Quadrupole and Magnetic Interactions. G. A. Bykov, G. K. Ryazanin, and V. S. Shpinel' .......... (T/E) 1343 1657
Nuclear Magnetic Resonance of $^{31}$P in NaNiF$_3$ and NaCoF$_3$. M. P. Petrov .................................................. (E) 1348 1663
Investigation of the Motion of Carriers in Organic Substances. E. L. Frankovich and E. I. Balabanov ............... (E/T) 1352 1667
Thermal EMF in a Quantizing Magnetic Field in Semiconductors with a Multi-ellipsoidal Band. V. S. L'vov .......... (T) 1362 1680
Impedance of a Dielectric Diode with Traps. T. Yu. Musabekov and V. B. Sandomirskii ........................................ (T) 1366 1687
Nuclear Resonance Absorption of Ultrasound in Crystals Containing Paramagnetic Impurities. Sh. F. Murtazin ........ (T) 1368 1690
Anisotropic Scattering in Semiconductors. Yu. A. Gurvich .......... (T/E) 1372 1696
Effect of the Substrate on the Structure and Properties of PbTe Films. L. S. Palatnik, V. K. Sorokin, and M. V. Lebedeva .... (T) 1374 1699

Copyright © 1965 by the American Institute of Physics, Incorporated
CONTENTS

The Pathways of Amino Acid Synthesis During Photosynthesis—E. G. Zak and A. A. Nichiporovich ............................................. 805
Influence of the Spectral Composition of Light and Its Intensity on the Formation of Amino Acids in Leaves—T. F. Andreeva and G. F. Koroleva ............. 810
Stimulation of Chlorophyll and Carotenoid Accumulation in Barley Shoots During Short-Term Cooling—T. N. Godnev and E. F. Shabelf'ikaya .......... 818
The Influence of Light and Oxygen on Photosynthesis and Respiration in Aquatic Plants—V. M. Knyurin, M. V. Usheb'kova. and N. M. Nazarov .................. 822
Investigation of the Carbon Dioxide Gas Exchange Curves of Plants in the Region of Low CO₂ Concentrations—V. L. Voznesenskii .......... 830
Directed Biosynthesis of Carbohydrates in Chlorella—G. L. Klyachko-Gurvich ................................................................. 834
Assimilation of Nitrogen in Chlorella pyrenoidosa Pringsheim 82T—N. G. Tomova, Z. G. Evtigineeva, and V. L. Kretovich .................. 842
Utilization of Soil and Fertilizer Nutrients by Timothy and Clover in a Mixed Crop—S. V. Shishchenko ................................................ 851
Photoperiodism and the Dynamics of Gibberellins in Plants—M. Kh. Challakhyan and V. N. Lozelnikova .................................................. 857
Photoperiodic Response of Broad Bean Varieties of Different Origins—V. N. Paichevskii ...................................................... 865
Vernalization of Vegetative Buds in Strawberry Plants—A. S. Knuzhilin and Z. M. Svedel'skaya ..................................................... 870
Changes in Starch Content of Roots and Shoots of Apple Attendant on Grafting—I. F. Gavritsheva ..................................................... 874
Biochemical Features of Seeds of Inbred and Hybrid Pumpkin Plants—B. A. Bystrov and A. P. Pavlova ...................................................... 879
Proteins of Poppy Seeds and Their Physiological Functions—V. P. Khodoluova ................................................................. 884
Effect of Ascorbic Acid on the Water Exchange in Plants—A. A. Zemlyanukhina ................................................................. 893
The State of the Chloroplasts in Plant Cells after Freezing and Thawing—E. I. Baris'kaya, G. A. Samygin, and N. M. Matveeva .................. 900

(Continued)

Annual Subscription: $160 Single Issue: $30 Single Article: $15

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CONTENTS (continued)

Growth Inhibitors of Wheat-Couch Grass Hybrids Resistant and Nonresistant to Lodging
-L. D. Prusakova .................................................. 908 1063
Influence of 2,4-D on the Accumulation of High-Energy Phosphates in Plants of Various
Classifications—T. V. Likholtat .................................. 915 1070

BRIEF COMMUNICATIONS
Effect of Gibberellin on Growth and Productivity of Fiber Flax—N. G. Gorodnii and I. G. Vygal'ko........................................ 922 1078
Effect of Gibberellic Acid on Belladonna Seeds—L. N. Perezhangelovskaya .................................................. 925 1081
Quantitative Determination of the Main Carotenoids in Coniferous Needles
—D. A. Zakharovskii and A. M. Olykhina .................................. 927 1082
A Standard Device for Mass Cultivation of Unicellular Algae—V. V. Pinevich, N. N. Verzilin, and S. I. Stepanov ··············································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································································
[Following is the cover-to-cover translation of the Russian-language periodical Genetika (Genetics), Moscow, No 1, 1965, pages 1-207. Other bibliographic information accompanies each article.]

CONTENTS

<table>
<thead>
<tr>
<th>Source Report</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frontispiece: Johann Gregor Mendel</td>
<td>1 1</td>
</tr>
<tr>
<td>Genetics to Serve the Nation [unsigned]</td>
<td>3 2</td>
</tr>
<tr>
<td>The Extent to Which There Is Universal Application of Mendel’s Laws to the Segregation of Hybrids [N. I. Vavilov]</td>
<td>13 16</td>
</tr>
<tr>
<td>The Evolution of Cultivated Plants on the Basis of Genetic and Botanical Principles [P. M. Zhukovsky]</td>
<td>41 56</td>
</tr>
<tr>
<td>The Achievement of Genetics in Aid to Agriculture [N. P. Dubinin]</td>
<td>50 67</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33170

- 92 -
GENETICA
No. 1, 1965

The Achievements and Prospects in the Genetics of Microorganisms [S. I. Alikhanyan]

Genetic Mapping of Thymineless Mutants of E. coli K-12 [V. V. Sukhodolets, T. S. Il'ina, S. L. Alikhanyan]

Recovery of Radiation-Induced Premutation Damage in Yeast [I. P. Arman, O. B. Kuznetsova]

Genetic Studies of Different Quantitative Thymine Requirements of E. coli K-12 Thymineless Mutants [S. V. Kameneva, E. S. Kalyayeva, S. I. Alikhanyan]

The Role of Mutagenic Factors in the Selection of A. Aureofaciens, a Producer of Chlorotetraycline and Tetracycline [S. Yu. Goldstein]

The Mutagenic Effect of Ethylenimine in a Series of Cell Generations [B. N. Sidorov, N. N. Sokolov, V. S. Andreyev]

Investigation of the Nature of Somatic Mosaicism in Drosophila Melanogaster [Ye. M. Timofeyev]

The Mutagenic Effect of Urethane in a Gas State in the Presence of Oxygen [L. A. Rapoport]

The Mutagenic Effect of Large Volumes of Diethylsulfate Gas [L. A. Rapoport]

The Genetic Effect of Optically Active Compounds [L. M. Filippova]

Duration of the Mitotic Cycle and Interphase Stages in Cells, in a Primary Culture of Human Embryonic Fibroblasts [N. P. Mokryakova]

Ultraviolet Microbeam Irradiation of the Nucleus and Cytoplasm of Cells in an Animal Tissue Culture During Various Phases of the Cell Cycle [V. N. Sakharov, L. N. Voronkova]

A High-Yield Mutant Obtained as the Result of Co60 Gamma Irradiation of Cotton Plants [Kh. I. Eregimov, R. L. Kovalchuk, P. Paryyev]

Available from Joint Publications Research Service 33170

- 93 -
### GENETIKA

**No 1, 1965**

<table>
<thead>
<tr>
<th>Source</th>
<th>Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Utilization of Winter Wheat Radiomutants in Selection Work [V. S. Mozhayeva]</td>
<td>173 226</td>
</tr>
<tr>
<td>Useful Artificial Mutations of Potatoes [Ye. A. Solomko]</td>
<td>179 233</td>
</tr>
<tr>
<td>Utilization of Bean and Soya Radiomutants in Selection Work [S. G. Tedoradze]</td>
<td>185 240</td>
</tr>
</tbody>
</table>

**BOOK REVIEW**

"Genetics of Bacteria" [N. N. Zhukov-Verezhnikov, A. P. Pekhov] 192 249

**CURRENT EVENTS**

All-Union Symposium on Experimental Mutagenesis of Animals, Plants and Microorganisms [S. A. Valeva, S. Z. Mindlin] 198 239

Decree: On the Development of Scientific-Research Work in the Area of Genetics within the USSR Academy of Sciences 200 263

On the Creation of a Scientific Council on the Problems of Genetics and Selection (Presentation of the Section of Chemical-Technological and Biological Sciences) 202 267

On the Plan for Measures Devoted to the Memory of G. Mendel 203 270

**OUTSTANDING GENETICISTS**

The Prominent Soviet Scientist, S. S. Chetverikov [A. Sheremet'yev] 204 271

Table of Contents of Original Source 206 a

Available From Joint Publications Research Service 33170
GEORCHEMISTRY INTERNATIONAL
No. 5, 1964

Translated Articles from ГЕОХИМИЯ and other selected geochemical translations

Published by THE GEOCHEMICAL SOCIETY

with the aid of a grant from the National Science Foundation

CONTENTS

GEOKHIMIYA NO. 9, 1964

Cherydyntsev, V. V. and E. M. Kolcanov. Argon in Ancient Sedimentary Rocks ......................... 837
Shukolyukov, Yu. A. Interpretation of Discordant Ages Calculated from the Isotopic Ratios: Pb206/Pb207 and Pb208/Pb207 ............... 843
Pantuken, R. G. and V. L. McRiddles. The Isotopic Composition of Sulfur in the Hydrogen Sulfide of the Natural Gas of the Bolshikovo Zone in the Volga-Urals Region (Abs) .............. 853
Gerasimovskii, V. I. and A. M. Tavilova. Geochemistry of Chlorine in Nepheline Syenites .............. 859
Mishchuk, A. V. Chromium, Vanadium, and Nickel in Ortho- and Para-Metamorphic Rocks .......... 875
Serykh, V. L. Geochemistry of Nickel in Granitoids ......................................................... 880
Pechortzhnava, D. N. Geochemical Bond Between Tantalum, Niobium, and Titanium in Bauxites .......... 889
Zunalin, G. G., N. V. Korablev and I. D. Marchukhova. New Data on the Mode of Occurrence of Selenium and Tellurium in the Noril'sk Copper-Nickel Ores (Abs) ............. 897
Serebrovskaya, M. B. Application of Physicochemical Methods to the Determination of the Mode of Occurrence of Uranium in Ground Waters ................................................................. 906
Kozin, A. N., Barmin in the Oil Field Waters of the Kuibyshev-Volga Region ................................ 908
Rodionov, D. A. On the Statistical Analysis of Geochemical Processes Occurring During the Formation of Igneous Rocks ................................................................. 915

BRIEF COMMUNICATIONS

Lemnov, L. L. Uranium and Thorium in the Variscan Alkalie Intrusives of Southern Tien-Shan (Abstract) .......... 925
Portnov, A. M. Distribution of the Rare Earths in the Zudalitie of the BurpaIa Massif ................ 929
Marchukhova, E. K., A. M. Sapozhnikova and D. S. Strauts. Barium in the Volcanic Rocks of the Kamchatka and the Kurile Islands .......... 933

NEWS

Sixth Scientific Reading Honoring V. I. Vernadskii (Abs) .................................................. 935

GEOKHIMIYA NO. 10, 1964

Gorkovskii, I. M. and S. B. Loburz-Zhuchenko. Determination of the Age of the Karad'y Granites of Southwestern Karelia by the Rb-Sr Isotopic Method (Abs) ........................................... 944
Tugarinov, A. I., E. V. Dibekova and S. I. Zykov. Age of Rocks of the Kurek Magneter Anomaly .......................... 945
Balashov, Yu. A., A. B. Rosov, A. A. Micsor and N. V. Tarnovskaya. The Effect of Climate and Facies Environment on the Fractionation of the Rare Earths During Sedimentation ......... 951
Nesterenko, G. V., N. S. Avilkova and N. P. Smirnova. Rare Elements in the Traps of the Siberian Platform .......... 970
Kulenov, M. F. Distribution of Trace Elements in the Oxidized Zone of Some Lead-Zine Deposits of Middle Asia ......................................................... 977
Kalta, A. P. Pyrochloritization of Samarskite (Abs) ............................................................. 982
Podlesnitskii, A. M. and V. L. Serykh. Niobium in the Intrusive Rocks of the Khibiny Uplift (Abstract) ................................................................. 983

Available From the Geochemical Society

- 95 -
Available From the Geochemical Society

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TABLE OF CONTENTS
Vol. 6, No. 1, 1962

   P. L. Levitskiy ................................................. p. 1

2. Some regularities in the formation of oil and gas fields in the southern regions of the Volga-Ural district.
   S. P. Maksimov ................................................. p. 5

3. Thermodynamic basis for regularity in the distribution of oil and gas fields.
   M. A. Lipovskiy ................................................ p. 14

4. Study of regularities in the distribution of oil and gas fields.
   N. A. Kudryavtsev ............................................ p. 19

5. Carboniferous and Devonian sediments of the northwest part of the Bol’shekinel swell.
   M. V. Makarenko and P. Ye. Pchelintsev .................. p. 23

6. Geology of the southeast part of the Dnieper-Donets depression.
   V. A. Gordiyevich and L. V. Sanarov ....................... p. 28

7. Tectonics of the Miocene sediments of the Central Cis-Caucasus.
   Ye. M. Borisenko ............................................... p. 31

8. Character of the relationship between permeability and the total and dynamic porosity of rocks.
   M. Sh. Pernikov ............................................... p. 34

9. Some results of experimental work on increasing the depth of investigation of seismic reflection surveying in the West Kuban downwarp.
   Ye. A. Kozlov ................................................ p. 38

10. Prediction of the character of pools according to gas logging data.
    Yu. M. Yurovskiy ............................................. p. 42

    G. S. Gazyanc ................................................. p. 46

12. Short survey of the sedimentary basins of Hungary from the viewpoint of petroleum geology.
    D. Kerti .................................................... p. 49

- * - * - * - *

PETROLEUM GEOLOGY
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Available from the Geological Society of America

- 97 -
## CONTENTS

R. Popović, K. Nikolić and Z. Blagojević:  
**Contribution to the Coulometric Determination of Sulfonamides** .......................... 5

M. Jovanović and R. Babić:  
Amperometric Determination of Hydrochloric Acid Using the Bismuth-  
-Bismuth Bimetallic Pair ......................................................... 13

V. Rajković:  
Calibration Curves for the Quantitative X-ray Diffraction Analysis of  
Sb$_2$O$_3$, Sb$_3$O$_5$ and Sb by the Internal Standard Method ............................ 17

V. Rajković:  
**Sedimentation Influence on Calibration Curves for X-ray Diffraction Analysis of Some Antimony Compounds (Part I)**  .......................................................... 23

V. Rajković:  
**Sedimentation Influence on Calibration Curves for X-ray Diffraction Analysis of Some Antimony Compounds (Part II)** .......................................................... 29

V. Rajković:  
**Sedimentation Influence on Calibration Curves for X-ray Diffraction Analysis of Some Antimony Compounds (Part III)** .......................................................... 35

S. Mladenović and B. Filipović:  
**Determination of Small Amounts of Copper in Cadmium**  ........................................ 45

B. Podolekov:  
The Oxidative Splitting of Some Fluorenone Derivatives by means of Lead Tetracetate ......................................................... 49

M. Rogić:  
**Reaction of Phenylmagnesium Bromide with Six-and Five-membered Steroid Lactones** .......................................................... 57

V. Canić and T. Stojanović:  
Phytin Content of Wheat ......................................................... 71

Available From Office of Technical Services TT 64-11460/1-2

- 98 -
NEWS OF THE ACADEMY OF SCIENCES USSR
DEPARTMENT OF TECHNICAL SCIENCES
TECHNICAL CYBERNETICS

No 4, 1965

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<table>
<thead>
<tr>
<th>TABLE OF CONTENTS</th>
<th>Source</th>
<th>Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Some Game Situations in Control System Theory, N. M. Krasovskiy, Yu. M. Repin, V. Ye. Tret' yakov, (Sverdlovsk)</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>2. Statistical Stability of the Motion Of Nonlinear Dynamic Systems and Integral Evaluations of Moments, A. A. Krasovskiy, (Moscow)</td>
<td>14</td>
<td>18</td>
</tr>
<tr>
<td>4. Detection and Measurement of the Parameters of a Random Number of Signals Belonging to Different Classes, I. A. Bol'shakov, (Moscow)</td>
<td>31</td>
<td>43</td>
</tr>
<tr>
<td>5. Recognition of Abstract Shapes as a Problem in Linear Programming, A. A. Pervozvanskiy, (Leningrad)</td>
<td>41</td>
<td>58</td>
</tr>
<tr>
<td>6. A Single Line Queueing System With Losses, O. I. Bronstein, A. L. Raykin, M. V. Rykov, (Moscow)</td>
<td>45</td>
<td>64</td>
</tr>
<tr>
<td>7. On the Lifetime of Stochastic Automata, E. M. Vaysbord, G. Sh. Rosenstein, (Moscow)</td>
<td>52</td>
<td>75</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33086

- 99 -
<table>
<thead>
<tr>
<th>Source</th>
<th>Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>65</td>
<td>94</td>
</tr>
<tr>
<td>70</td>
<td>102</td>
</tr>
<tr>
<td>77</td>
<td>112</td>
</tr>
<tr>
<td>92</td>
<td>131</td>
</tr>
<tr>
<td>101</td>
<td>143</td>
</tr>
<tr>
<td>107</td>
<td>154</td>
</tr>
<tr>
<td>111</td>
<td>160</td>
</tr>
<tr>
<td>113</td>
<td>166</td>
</tr>
<tr>
<td>119</td>
<td>173</td>
</tr>
<tr>
<td>126</td>
<td>182</td>
</tr>
<tr>
<td>135</td>
<td>196</td>
</tr>
<tr>
<td>148</td>
<td>215</td>
</tr>
<tr>
<td>153</td>
<td>225</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33086
### TABLE OF CONTENTS (con't.)

<table>
<thead>
<tr>
<th>Source</th>
<th>Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>163</td>
<td>237</td>
</tr>
<tr>
<td>169</td>
<td>247</td>
</tr>
<tr>
<td>174</td>
<td>254</td>
</tr>
<tr>
<td>183</td>
<td>267</td>
</tr>
<tr>
<td>188</td>
<td>275</td>
</tr>
<tr>
<td>192</td>
<td>281</td>
</tr>
<tr>
<td>195</td>
<td>286</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33086
**CONTENTS**

<table>
<thead>
<tr>
<th>English</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. S. BERZON, The Determination of a Model of a Thinly Layered Medium by the Simultaneous use and Amplitude- and Phase-Spectrum Characteristics of the Layer</td>
<td>363</td>
</tr>
<tr>
<td>V. YA. BENDERSKII, YU. A. VASLJEV, L. D. RAIKHER (REICHER), AND I. I. KHARAZ, Elements of a Theory of Variable Control of Seismic-Wave Fronts</td>
<td>368</td>
</tr>
<tr>
<td>L. L. VAN'YAN AND V. M. DAVYDOV, Distortion of the Late Stage of the Build-Up of a Magnetic Field by a Nonconducting Inclusion</td>
<td>375</td>
</tr>
</tbody>
</table>

**Scientific Reports**

<table>
<thead>
<tr>
<th>English</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. O. OSIPOV, Natural Vibrations in an Anisotropic Layer</td>
<td>386</td>
</tr>
<tr>
<td>P. YA. PFRSHTEIN (BARSTEIN), Solution of the Lamb Problem for an Anisotropic Medium</td>
<td>392</td>
</tr>
<tr>
<td>V. Z. RYABOI, Measuring the Absolute Amplitude Characteristics of Waves in Deep Seismic Sounding and the Correlation Method ofWave Refraction</td>
<td>394</td>
</tr>
<tr>
<td>A. B. MAKIMOV AND A. V. NIKOLAEV, A Method of Estimating the Seismic Wave Absorption Decrement</td>
<td>401</td>
</tr>
<tr>
<td>M. M. RADZHABOV, The Determination of the Boundary-Absorption Coefficient of Refracted Waves from Observations on Transverse Profiles</td>
<td>406</td>
</tr>
<tr>
<td>YU. B. SHAUB (SCHAUB), Use of the Non-Linear Conductivity Effect in Rocks for Electrical Prospecting</td>
<td>409</td>
</tr>
<tr>
<td>V. A. TROITSKAYA, M. V. MEL'NIKOVA, O. V. BOL'SHAKOVA, D. A. ROKITYANSKAYA AND G. A. BULATOVA, Fine Structure of Magnetic Storms</td>
<td>413</td>
</tr>
<tr>
<td>N. P. VLADIMIROV, Certain Features of the Microvariations of the Earth's Natural Electromagnetic Field</td>
<td>417</td>
</tr>
</tbody>
</table>

**Chronicle**

<table>
<thead>
<tr>
<th>English</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. P. KOSMINSKAYA, Problems of Deep Seismic Sounding of the Earth's Crust and the Upper Mantle at the 7th Conference of Geophysicists of the Eurasian Region (Moscow, June 1964)</td>
<td>420</td>
</tr>
</tbody>
</table>

Available From American Geophysical Union

CONTENTS

RADIO ELECTRONIC INSTRUMENTS

Molebnyy, V. V. A Method for the Precision Measurement of Delay Time

Makarov, A. P. Magnetic Pulse Generator with Frequency Multiplier

Zolotarev, I. D. Simplification of Mathematical Transformations for Determining Transient Processes at the Output of a Linear System

Kotchenko, F. F., Frazinsky, V. S. Designing Input Filters for Automatic Potentiometers

Aliyev, T. M. Basic Principles for Constructing Digital Scanning Conversion Devices for Measuring Alternating Voltage Vectors

Kulikovsky, L. F. and Korganova, O. G. Voltage and Current Stabilizers with a Weight Reference Element

Avduyevskiy, V. F. Screen Method for Monitoring Metallic Tapes

Aref'ev, B. A. An Equation for the Determination of Characteristics of Nonlinear Systems

Vakhlanov, G. V. Extremal Regulator Based on Arrangement of Level Quantization

Available From The Joint Publications Research Service 33032
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yakovlev, V. V. Calculation of Transfer Processes in Pulse Systems</td>
<td>56</td>
</tr>
<tr>
<td>Zakaznov, N. P. Starting Speed Selection of Motors with Non-linear Characteristics in Automation Systems</td>
<td>60</td>
</tr>
<tr>
<td>Volkov, Yu. I. and Keller, F. B. Decoder-Corrector of Cyclic Codes</td>
<td>67</td>
</tr>
<tr>
<td>Butayev, G. M. Universal Digital Unit for Squaring and Extracting Square Roots of Numbers</td>
<td>74</td>
</tr>
<tr>
<td>Galkin, F. Ya. Rounding Decimal Fractions on Binary Digital Computers</td>
<td>79</td>
</tr>
<tr>
<td>Ponyrko, S. A. Solution of Integral Equations with the Aid of Simulation Models</td>
<td>86</td>
</tr>
<tr>
<td>Lestev, A. M. On the Theory of a Gyroscope Pendulum</td>
<td>97</td>
</tr>
<tr>
<td>Gurin, A. N. On the Stability of Motion of a Gyroscope Located on a Moving Base</td>
<td>109</td>
</tr>
<tr>
<td>Torochkov, V. Yu. A Stand for Demonstrating Gyroscopic Moment</td>
<td>116</td>
</tr>
<tr>
<td>Utekhin, Yu. A. Features of the Calculation of Binocular Optical Systems with Off-Center Pupils</td>
<td>119</td>
</tr>
<tr>
<td>Belyakova, G. V. The Photoelectric Method of Measuring the Working Sections of Photographic Objective Lenses</td>
<td>123</td>
</tr>
<tr>
<td>Kaydanov, A. I. Application of the Method of Electrothermal Analogies to the Analysis of Thermal Regimes of Radio-electronic Apparatuses</td>
<td>130</td>
</tr>
<tr>
<td>Potroshkov, V. A. A Calorimeter for Investigating Heat Transfer Between the Ends of a Cylindrical Gas Space</td>
<td>136</td>
</tr>
<tr>
<td>Simbiretsky, D. F. Measurements of Rapidly Changing Temperature of Gas Flows with the Application of Electronic Correction for the Thermal Inertia of the Heat Detector</td>
<td>141</td>
</tr>
</tbody>
</table>

Available from Joint Publications Research Service 33032
Table of Contents (continued)

Korotkov, P. A., Belyayev, D. V. and Rukin, Ya. V. A Thermal Contactless Flowmeter with a Capacity of up to 10,000 Liters Per Hour, with a Semiconductor Heater 146

GENERAL PROBLEMS OF INSTRUMENT MANUFACTURE

Guretskiy, V. V. On the Maximum Possibilities of Shock Absorption 151

Volokobinskiy, Yu. M. Thermoclastic Stresses in Ferrite Components of Instruments and Radar Devices 157

Zaostrovskiy, A. A. The Curvature of the Faces of the Curved Teeth of the Generation-Type Bevel Gears and Determination of the Dimensions of the Contact Pattern 164

Bogoroditskiy, N. P. Boris Pavlovich Kozyrev (On the 70th Birthday) 169

Available From Joint Publications Research Service 33032
**CONTENTS**

<table>
<thead>
<tr>
<th>English</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>E. M. Lev. and L. L. Frankfurt. The Quark Hypothesis and Relations Between Cross Sections at High Energies</td>
<td>65 105</td>
</tr>
<tr>
<td>Ya. I. Azimov, V. V. Anisovich, A. A. Ansel'm, G. S. Danilov, and I. T. Dyatlov. On a Possible Classification of Elementary Particles in the Quark Model</td>
<td>68 109</td>
</tr>
<tr>
<td>T. Ts. Gurovich and O. Kh. Guseinov. Rotation of Superdense Configurations</td>
<td>70 113</td>
</tr>
<tr>
<td>T. L. Astiani, A. A. Nazaryan, and R. O. Sharkhatunyan. Search for Cosmic-ray Charged Particles Having Mass ≥ 50m, and Decaying in Millisecond Time Intervals</td>
<td>72 116</td>
</tr>
<tr>
<td>V. K. Dolinov, Yu. V. Melikov, and A. F. Tulinov. Angular Distributions of α-particles from the Reactions C^{16}(d,α)B^{10} and O^{16}(d,α)N^{14}</td>
<td>74 120</td>
</tr>
<tr>
<td>I. O. Kulik. Theory of &quot;Steps&quot; of Voltage-current Characteristic of the Josephson Tunnel Current</td>
<td>84 134</td>
</tr>
<tr>
<td>L. A. Khalfin. Monotonicity of the Decay of Unstable Particles Corresponding to an n-order Pole</td>
<td>87 139</td>
</tr>
<tr>
<td>L. Kovrizhnykh. Heating of Ions by Nonlinear Absorption by Transverse Waves in a Plasma</td>
<td>89 142</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics
<table>
<thead>
<tr>
<th>Article</th>
<th>Page</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. N. Pan'yushkin and F. F. Voronov. The Mossbauer Effect in Metallic Tin at Pressures up to 110 kbar.</td>
<td>97</td>
<td>153</td>
</tr>
<tr>
<td>V. I. Pushchich. Unitary Symmetry and the Poincare Group.</td>
<td>99</td>
<td>157</td>
</tr>
<tr>
<td>V. Z. Kresin and B. A. Tavger. Possible Superconductivity Mechanism in Crystalline Films.</td>
<td>101</td>
<td>160</td>
</tr>
<tr>
<td>S. A. Akhmanov and D. N. Klyshko. Three-photon Molecular Scattering of Light.</td>
<td>108</td>
<td>171</td>
</tr>
<tr>
<td>V. V. Okorokov. Coherent Excitation of Optical Spectra of Atoms Passing Through a Crystal.</td>
<td>111</td>
<td>175</td>
</tr>
<tr>
<td>G. A. Askar'yan. Self-acceleration of Ionizing Particles in an Electric Field of a Polarizing Ionization Loop.</td>
<td>113</td>
<td>179</td>
</tr>
<tr>
<td>V. V. Ushakov. Concerning the Difference Between $\nu_\mu$ and $\nu_e$.</td>
<td>115</td>
<td>182</td>
</tr>
<tr>
<td>V. V. Chekin, V. P. Romanov, B. I. Verkin, and V. A. Bokov. Change in the Probability of the Mossbauer Effect on Sn$^{119}$ Impurity Nuclei in the Ferroelectric Phase Transition in BaTiO$_3$.</td>
<td>117</td>
<td>186</td>
</tr>
<tr>
<td>V. A. Zakharov and A. B. Kaidalov. Relativistic Generalization of SU(6) Symmetry and Production of Baryon Resonances.</td>
<td>121</td>
<td>192</td>
</tr>
<tr>
<td>O. D. Dal'karov. Isotopic Structure of Parity Nonconserving Nuclear Forces.</td>
<td>124</td>
<td>197</td>
</tr>
</tbody>
</table>
E. M. Lipmanov. Parity Nonconservation Effects Induced by Weak Interactions in Nuclear and Electromagnetic Forces. 127 231
A. I. Larkin. Vector Pairing in Superconductors of Small Dimensions. 130 205
A. A. Kaplyanskii and V. M. Medvedev. Pseudo-Stark Splitting of 4f - 5d Lines of Ce^{3+} Ions in CaF_{2} Crystals. 133 209
S. N. Shumilov, A. P. Klyucharev, and N. Ya. Rutkevich. Pick-up of a Deuteron and an a Particle in the Interaction Between B^{10} and C^{16} 135 213
A. I. Maksimov. Influence of the Skin Effect on the Optical Properties of a Microwave Discharge 137 216
V. I. Talanov. Self Focusing of Wave Beams in Nonlinear Media 138 218
S. A. Akhanov, A. I. Kovrigin, A. S. Piskarskas, and R. V. Khokhlov. Generation of Ultraviolet Radiation by Using Cascade Frequency Conversion 141 223
Dao Vong Duc. Sum Rules for the Coupling Constants G(B^{*}, BF) in Broken U(12) Symmetry. 143 227
I. A. Malkin and V. I. Man'ko. Symmetry of the Hydrogen Atom. 146 230
A. A. Chaban. On the Question of "Second Sound" in Semiconductors 149 234
D. I. Mash, V. V. Morozov, V. S. Starunov, E. V. Tiganov, and I. L. Fabelinskii. Induced Mandel'shtam-Brillouin Scattering in Solid Amorphous Bodies and in Liquids 157 246

Available from American Institute of Physics
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dao Vong Duc and Cao Ti. Electromagnetic Splitting of the Masses of the 70-plet in the SU(6) Symmetry Scheme.</td>
<td>163</td>
</tr>
<tr>
<td>V. N. Baier and V. M. Galitskii. Double Bremsstrahlung in Electron Collisions.</td>
<td>165</td>
</tr>
<tr>
<td>L. N. Kurbatov, P. A. Khalilov, E. V. Susov, and F. F. Kharakhorin. Effect of Microwave Radiation on the Electric Conductivity of p-Type Indium Antimon.</td>
<td>167</td>
</tr>
<tr>
<td>M. A. Vlasov. Instability of an Inhomogeneous Plasma.</td>
<td>174</td>
</tr>
<tr>
<td>E. L. Andronikashvili and D. S. Tsakadze. Dependence of the Density of Rotating Liquid Helium on the Angular Velocity.</td>
<td>177</td>
</tr>
<tr>
<td>E. E. Berlovich and Yu. N. Novikov. On the Shape of Odd Nuclei of the Transition Region.</td>
<td>179</td>
</tr>
<tr>
<td>D. V. Volkov. Electromagnetic Form Factors of Baryons and SU(6) Symmetry.</td>
<td>181</td>
</tr>
<tr>
<td>L. B. Bersuker and V. A. Kowarskii. On the Possibility of an Optical Shift of the Mossbauer-Spectrum Lines.</td>
<td>182</td>
</tr>
<tr>
<td>Yu. V. Sharvin. Observation of Dynamic Intermediate State of Superconductors with the Aid of Microcontacts.</td>
<td>183</td>
</tr>
<tr>
<td>V. V. Afrosimov, Yu. S. Gordeev, M. N. Panov, and N. V. Fedorenko. Ionization and Scattering with Characteristic Energy Losses in Atomic Collisions.</td>
<td>185</td>
</tr>
</tbody>
</table>
CYBERNETICS
(No 4, 1965)
- USSR -

Following is a complete translation of the Russian-language periodical Kibernetika (Cybernetics), Kiev, No 4, July-August 1965, "Naukova Dumka", pages 1-105 plus inside front and rear covers. Names of authors and original page numbers accompany each article.

CONTENTS

| Algebraic Features of the Computational Power of an Automaton | 1 |
| Some Problems of Language Theory | 29 |
| A Metric Space of Events. II. | 52 |
| Evaluation of the Complexity of Cutting Algorithms | 73 |
| Methods for Minimizing Functions of Many-Valued Logic | 91 |
| Checking Arithmetic Operations in a Code of Deductions | 103 |
| Algorithms, Programming Languages, and Dispositions | 109 |
| Equivalent Transformations of Single-Address Complexes | 131 |

(Continued)

Available From Joint Publications Research Service 33371
<table>
<thead>
<tr>
<th>Contents (continued)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Some Properties of an Independent-Increment Process Connected with the Distribution of Its Maximum</td>
<td>145</td>
</tr>
<tr>
<td>Dual Method of Extremum Problems. II.</td>
<td>152</td>
</tr>
<tr>
<td>The Problem of the Optimal Distribution of Circular Patterns</td>
<td>166</td>
</tr>
<tr>
<td>A Class of Standard Operators for Economic Problem Oriented Computer Systems. I.</td>
<td>179</td>
</tr>
<tr>
<td>Memory Organization for Searching and Recording of Keys</td>
<td>198</td>
</tr>
<tr>
<td>A Method for Symbolic Programming</td>
<td>219</td>
</tr>
<tr>
<td>Brief Communications</td>
<td>239</td>
</tr>
<tr>
<td>An Approach to Solution of the Transport Problem With Restrictions</td>
<td>239</td>
</tr>
<tr>
<td>On Representation of a Sum Modulo mod m In a Class of Normal Forms of m-Valued Logic</td>
<td>243</td>
</tr>
<tr>
<td>Scientific Information</td>
<td>245</td>
</tr>
<tr>
<td>Ukrainian Republic Conference of Junior Research Workers on Theoretical Cybernetics</td>
<td>245</td>
</tr>
<tr>
<td>The Third All-Union Conference of Invariance Theory and Its Application in Automatic Control Systems</td>
<td>247</td>
</tr>
<tr>
<td>Information on the Authors</td>
<td>249</td>
</tr>
<tr>
<td>Instructions for Authors</td>
<td>252</td>
</tr>
</tbody>
</table>

(Continued)
On Some Optical Properties of an UHF Gas Discharge .......................................................... A. P. Motornenko 603 (1074)
Some Features of the Phosphorescence Decay Kinetics of Triphenylene .................................................. V. A. Butlar, D. M. Grebenschikov, and V. V. Solodunov 606 (1079)
The EPR Spectra of Some Biologically Important Charge-Transfer Complexes ........................................ N. E. Ainbinder, V. S. Grechishkin, and G. I. Subbotin 608 (1081)
Formation of Higher Harmonics in the Case of Saturation ........................................................................ N. D. Voropaev and A. N. Oraevskii 611 (1086)

LETTERS TO THE EDITOR
Optical Pyrometry of Real Flames (Comments on Amfriev and Leskov's Paper: Optical Pyrometry of Nonuniform Light Sources) .......................................................... A. E. Kadyshevich 612 (1089)
The Appearance of the Absorption Signal in Dehmelt's Experiment ...................................................... E. B. Aleksandrov and V. A. Khodovy 613 (1090)
Book Review ........................................................................................................................................ 614 (1091)
Author List, Vol. XVIII ...................................................................................................................... 616 (1092)
Contents List, Vol. XVIII ................................................................................................................... 632 (1101)

Available From Optical Society of America
OPTICAL AND SPECTROSCOPY

CONTENTS

(Numbers in parentheses are original Russian page numbers. These Russian page numbers are also quoted at the head of each paper.)

Relativistic Radiation Transitions ............................................. F. A. Babeshkin 1 (3)
The True Nature of the Hydberg-Klein-Rees Method ........................... 2 (6)
The Polarization of Radiation Excited by Electron Impact ....................... V. L. Fedorov and A. P. Mesenteraev 5 (12)
Spectroscopic Study of the Interaction Between Charged Particle Beams and Plasma .......... 8 (10)
Effect of Radiation on the State of the Gas During Passage of a Shock Wave in Hydrogen .............. I. T. Yakubov 12 (28)
Reevaluation of the Spectroscopic Association Energies of Subhalides of the Ia Group ................. K. S. Krasnov and N. V. Karaseva 14 (30)
On the Theory of Resonant Rotational Raman Scattering. II. Depolarization and Reversal Coefficients of Rotation-Vibration Lines .............................................. V. A. Morozov 17 (33)
Frequency Dependance of the Intensity of Fundamentals in Raman Spectra ............................... 20 (41)
Vibrational Spectra of 3,5-Lutidine and Their Interpretation ................. K. C. Medhi 24 (49)
Infrared Absorption Spectra of Cyclodextrane and of Its Symmetrically Substituted Derivatives at Low Temperatures .................................................. G. N. Zhizhin and Kh. E. Stern 28 (55)
Edge Luminescence of CdS, CdTe, and CdSe Crystals ................................ V. V. Sobolev 43 (86)
Thermal Afterglow and Thermostimulated Current in TICI Single Crystals .................. V. V. Sobolev 49 (97)
Study of Optical and Thermal De-Excitation of the NaCl(Cu) Phosphor ........................... I. M. Shamovskii and V. P. Koskin 52 (102)
Optical Properties of Zinc Telluride. I. Fundamental Absorption Edge ...................... A. V. Savitskil, M. V. Kurik, and K. D. Torstyn 59 (115)
Optical Properties of Thermally Deposited Antimony Trioxide and Tellurium Layers in the Infrared Spectral Region ................................................... A. S. Valse and M. A. Gisain 62 (121)
Possible Forms of Color Vision .................................................... N. V. Lobanov 66 (128)

SHORT COMMUNICATIONS

Stimulated Emission of Praseodymium in Calcium Tungstate ........................................... V. L. Bukumenko, G. S. Kosina, T. A. Koetinskaya, E. P. Lupachev, and E. S. Rucheva 68 (132)
Optical Properties of Ni-Cu Alloys in the Visible Region of the Spectrum ........................... N. Ya. Gorbun and l. A. Shakhovk 69 (133)
Theoretical Studies of Phenomena Associated with Level Crossing in Na and Rb ................... Yu. Kapelevich and K. Kostinskii 70 (135)

(Continued)

Available from Optical Society of America

- 115 -
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>Volume</th>
<th>Issue</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>On the Line Width in Stimulated Raman Scattering</td>
<td>71</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>On the Possibility of Determining the Coherence Function by Observing Diffraction</td>
<td>73</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Concerning the Rotation of the Positive Column of the Discharge in a Magnetic Field</td>
<td>74</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Electro-Optic Effect in ZnSe Crystals</td>
<td>75</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>A New Study of the Emission Spectrum of the SrCl Molecule</td>
<td>76</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Spectra of Multiply Isonized Krypton Atoms</td>
<td>78</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Polarization of the 5770-Å Mercury Line Arising from Electron Impact</td>
<td>79</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>High-Frequency Electroluminescence of Semiconducting Crystals</td>
<td>80</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Photographic Method of Recording in Fourier Spectrometry</td>
<td>82</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Absolute Intensity of Thallium Optical Lines in Sensitized Fluorescence of Mercury and Thallium Vapors</td>
<td>84</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Some Properties of Lasers from the Point of View of Thermodynamics</td>
<td>85</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
</tbody>
</table>

**BOOK REVIEWS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
<th>Volume</th>
<th>Issue</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Books on Infrared Techniques</td>
<td>87</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Rayleigh Issue of the Journal APPLIED OPTICS</td>
<td>88</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
<tr>
<td>Optical Quantum Generators (Lasers)</td>
<td>88</td>
<td>IV</td>
<td>No. 1</td>
<td>1965</td>
</tr>
</tbody>
</table>

Available From Optical Society of America
CONTENTS

Nonadiabatic Transitions between the Fine-Structure Components of Alkalil Metal Atoms during Atomic Collisions .................................................... 91 (161)
Effects of the Collective Properties of a System of Identical Atoms on the Scattering of Radiation .................................................. 96 (171)
Broadening of Emission Lines of Thallium by Molecule Hydrogen ........... 99 (177)
Study of Absorption in the Channel of High-Pressure Pulse Discharge ... 101 (181)
On the Use of Effective Kinematic Coefficients to Take Account of Anharmonicity in Molecular Vibrations .................................................. 104 (186)
On the Relationship between Certain Spectral Characteristics and the Reactivity of Aromatic Compounds, I. Para- and Meta-Nitro Disubstitution Products of Benzene .................. 111 (198)
Principal Parameters of the Raman Lines of the Monohalogenobenzenes and Their Variation with Temperature and Solvent ..................... 116 (206)
Investigation of the Dependence of Infrared Absorption Band Parameters Viscosity .................................................. 118 (209)
Three-Membered Ring Compounds, I. The Proton Magnetic Resonance spectra and the Inversion of Nitrogen in N-Substituted Ethylenimines ............... 122 (217)
The Inversion of Ammonia Molecules in Solution ................................ 128 (220)
The Oscillator Strength of the First Electronic Transition of Crystalline Anthracene .................................................. 132 (235)
Polarization of the Fluorescence of Metalloporphyrins .......................... 134 (239)
Some Trapping Centers in NaCl(Tl) Crystals .................................... 136 (242)
The Effect of Oxygen on the Spectrum of Electron Traps in Luminescent Zinc Sulphide .................................................. 139 (244)
Optical Properties of Polymeric InSb Films ....................................... 143 (252)
Structure of the Radiation Field of a Gas Laser with Spherical Mirrors 144 (255)
On the Threshold Power of a Laser with Disturbed Optical Adjustment .... 149 (264)
The Use of Moiré Interference Fringes to Control the Ruling of Diffraction Gratings .................................................. 152 (270)

SHORT COMMUNICATIONS

On the Existence of a Correlation between the Reactivity of Aromatic Nitro Compounds and Their Interaction with a Solvent .................. 157 (270)
Low-Voltage Electroluminescence of Evaporated Zn:Cu, Mn, Cl Films in a dc Field .................................................. 158 (281)

(Contents continued on inside back cover)

Available From Optical Society of America
A Simple Technique for Determining the Temperature and Electron Concentration of a One-Component Plasma .......................................................... V. M. Goldfarb 160 (254)
Effect of Mirror Misalignment on the Losses in a Fabry-Perot Resonator ................................................. M. P. Vanyukov, V. I. Isachenko, V. P. Kalinin, and V. V. Lyubimov 161 (286)
Electro-Optical Parameters of the =C-Ge, =C-H, =C-Si Bonds of Some Acetylene Derivatives Containing One and Several Acetylene Groups ................................................. E. A. Gashilovich, D. N. Shigorin, N. V. Komarov, and O. G. Yarosh 162 (287)
On the Theory of the Radiative Width of Spectral Lines ................................................. V. A. Morozov and P. P. Shorzin 164 (289)
Wide-Angle Interference of Light ......................................................................... I. I. Shklyarevskii and V. I. Goloyadova 165 (292)
Growth of Absorption Bands in CaF2 Crystals under Proton Irradiation ................................................. L. A. Lisitsyna 167 (295)
Luminescence and Absorption of Excited Ruby ........................................................................ M. D. Galanin, V. N. Smorchkov, and Z. A. Chizhikova 168 (296)
F and M Absorption Bands in Solid Solutions of the KCl-KBr System ................................................. T. S. Frangulyan 170 (299)
Calculation of the Optical Polarizability of the Hydrogen Atom with the Use of a Power Series ................................................. G. A. Akhundov and I. G. Aksayanov 171 (300)
Time Luminescence of Single Crystals of GaSe ........................................................................ G. A. Akhundov and I. G. Aksayanov 172 (301)
Determination of the Hyperfine Structure Constants of Cesium from the Intersection of Magnetic Sublevels ................................................. Kh. Kallas, G. Markova, G. Khvostenko, and M. Chaika 173 (303)
On the Calculation of the Thermal Radiation of the Atmosphere ................................................. B. M. Golubitski 175 (306)
An Infrared Ultralight Spectrometer .................................................................................. G. D. Dmitrievskii and I. P. Kotyrya 177 (310)

PERSONALIA
P. Kosyrev, on His 70th Birthday .................................................................................. 178 (311)

Available From Optical Society of America
CONTENTS

M. Kędra, T. Barowski, B. Kolber-Pastorska: Creatinephosphokinase activity in patients with myocardial infarction. 457
M. Kędra, M. Markiewicz, T. Widomowska-Chajnska: The ECG examination after administration of potassium chloride in the differentiation of functional and organic BCG abnormalities concerning ST—T wave. 463
M. Hanicki, Z. Hanicki, J. Hawiger, K. Bernaszkiewicz-Knapczykowska: On the appearance of the antibody deficiency syndrome in women. 474
J. Hladis: Venous and arterial blood serum turbidity on fasting and after loading with lipids. 480
S. Zgliczyński, B. Międzibłaska, W. Górsowski: Urine excretion of 17-hydroxycorticosteroids and 17-keinosteroids in primary hypothyroidism. 484
R. Rogoziński: The effect of carboxylic acid hydrochloride on the glycemic curve in secondary diabetes. 489
C. Marczyński, H. Mikłaszewski, S. Grec, M. Szymańska, S. Tuskaniński, K. Norotnik: The use of radioactive Thallium 170 in the assessment of disturbances in pulmonary ventilation. 495
H. Barzyk: The value of mass cytologic examinations in early diagnosis of bronchial carcinoma. 506
W. Warzęga, Z. Izdebska-Mgńska: Na-PAS serum level and drug tolerance to oral administration of a total 24-hour dose as one single dose. 513
J. Ciszek: Hyperreactivity to antituberculous drugs with special reference to diagnostic investigations and desensitization. 517
B. Chwalibóg, H. Pakierska-Pobretyn, D. Szymańska, M. Kulejewska: Chances of sterilization of the tuberculous pulmonary lesions with antituberculous drugs. 531
A. Papieński: Analysis of child neuropsychiatric based on personal observations. 541
S. Konturek, W. Króć: A new experimental model for inducing myocardial infarctions. 551
Z. Łaźewski, S. Laft, W. Kanapka: Experimental rectal instillation in mice of blood from patients suffering from rheumatoid arthritis. 559
J. Słowikowski: A modification of Marion’s operation in treatment of portal hypertension in children. 563
W. Brass, J. Słowikowski: Results of anastomosis of inferior vena cava with superior mesenteric vein in treatment of portal hypertension in children and adolescents. 570
K. Czyżewski, M. Chorążyk: Anastomosis of the inferior vena cava with large tributaries of the portal vein. 574
B. Adamczyk, A. Marczyński, J. Lewandowski, A. Górniak: Studies on renal function in patients with cholelithiasis. 579
L. Olszkiewicz: Surgical treatment of chronic viral hepatitis. 583
J. Osiecki, A. Marczyński, B. Adamczyk, M. Lettky: Nitrogen balance in the course of duodenal ulcer. 589
A. Dętwarze, W. Heyd, T. Kuśnierz, J. Zielinski: Myoclonus epilepsy of Unverricht-Lundborg with mental deficiency. 593
A. Bernardczykowa: Funduscopy findings in children with renal diseases. 601
W. J. Kapustinski, L. Baran, Z. Sikorski: Investigations on histamine content in the aqueous humor in uveitis (Report 1 and Report II) 601 and 613
B. Pijkiewska, F. Kuczyński: A contribution to the problem of unilateral exophthalmos. 617
Z. Bielińska: Balance of energy, digestion, absorption and metabolism of some nutrients in a convalescent after gastric resection. 623
W. Markowicz-Lazinska: Studies on the possibility of a spontaneous reversal of the positive TPI test in congenital syphilis. 631
Z. Olszewski: Serum iron metabolism in postisotropic patients. 640
T. Chorążyk: Vascular changes in paraprotandes varioformis. 647
B. Rudzik, K. Mokalska, E. Moriejewska, M. Blassczyk: Immediate type of allergy to pyogenic bacteria. 652
J. Röczkowski, E. Janowska: Diabetes mellitus and prediabetic states in pregnancy. 660
L. Góźdź, Z. Piszka: The activity of the p-glucomonidase in the blood serum of women in course of pregnancy, puerperium and during menstruation. 668
A. Jasiowski, H. Jasiowska: The passage of the fetal blood elements into the maternal circulatory system. 673
T. Pydiński, E. Bielak, E. Szuberti, J. Baran: The influence of adenosine triphosphoric acid upon the bioelectric activity of the uterine muscle in pregnancy. 679

Available From Office of Technical Services TT 55-50306/3
vol IV, No 3, 1965

- 119 -

**CONTENTS**

<table>
<thead>
<tr>
<th>I. THEORY OF CONTROL SYSTEMS</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Universal Pi-Networks for Functions of n Variables of Logical Algebra</td>
<td>1</td>
</tr>
<tr>
<td>A p-Adic Device for the Theory of Finite Automata</td>
<td>17</td>
</tr>
<tr>
<td>On An Approach to the Synthesis of Control Systems -- The Principle of Local Encoding</td>
<td>35</td>
</tr>
<tr>
<td>On the Synthesis of Logical Nets in Incomplete and Degenerate Bases</td>
<td>162</td>
</tr>
</tbody>
</table>

| II. PROGRAMMING | |
| Logical Schemes for Algorithms and Their Equivalent Transformations | 229 |

| III. PROBLEMS OF MATHEMATICAL LINGUISTICS | |
| On Two Ways for Generating Russian Language Sentences | 272 |
| An Algorithm for Armenian-Russian Machine Translation | 31 |

Available from Joint Publications Research Service 32605
<table>
<thead>
<tr>
<th>Contents (Contd)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>An Algorithm for Armenian-Russian Machine Translation.</td>
<td></td>
</tr>
<tr>
<td>I. (General Description)</td>
<td>317</td>
</tr>
<tr>
<td>An Algorithm for Armenian-Russian Machine Translation.</td>
<td></td>
</tr>
<tr>
<td>II. (The Program for Realization)</td>
<td>349</td>
</tr>
<tr>
<td>An Algorithm for Armenian-Russian Machine Translation.</td>
<td></td>
</tr>
<tr>
<td>III. (Grammatical Rules and the Order of Their Application)</td>
<td>379</td>
</tr>
<tr>
<td>IV. BRIEF COMMUNICATIONS</td>
<td></td>
</tr>
<tr>
<td>Local Algorithms for Problems of Integer Linear Programming.</td>
<td>412</td>
</tr>
<tr>
<td>On Certain Integer Problems of Linear Programming.</td>
<td>422</td>
</tr>
<tr>
<td>The Synthesis of Contact Switching Networks of Limited Width</td>
<td>426</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 32605
CONTENTS

Yu. P. Vinetskii. Some Physicochemical Effects of the Action of Ionizing Radiation on DNA ........................................ 1
V. N. Luzikov. On the Nature of the Thermal Aftereffect of Solutions of Trypsin Irradiated by X-Rays and UV Light ....... 16
E. G. Plyshevskaya, A. M. Kuzin. Change in the Sorption Properties of the Nuclei of Thymus Cells Immediately After Gamma Irradiation ........................................ 26
G. V. Korotkova, E. V. Moiseenko. The Breakdown of Deoxyribonucleoprotein of Escherichia Coli Under the Action of X-Ray Irradiation .................................................. 34
Z. N. Nakhil' nitskaya. The Ionic Permeability of Irradiated Erythrocytes ................................................................. 41
Zh. Safiyazov, L. Kh. Ñëñóä. The Phenomenon of Radiation Aftereffect in the Irradiation of Spores of Bac. Megaterium .... 52
A. M. Kuzin, V. A. Kopylov, S. K. Mel'nikova. The Effect of Ionizing Radiation on the Metabolism of Phenolic Compounds in Plants ................................................................. 57
V. N. Totskin. Dynamics of the Adenosinetriphosphoric Acid Content in the Organs and Tissues of White Rats During Radiation Sickness ......................................................... 65
V. I. Suslikov. Finding the Mechanism of the Effect of Radiation on Living Organisms by Investigating the Dynamics of Reparation Processes ......................................................... 79
V. N. Ivanov. The Accumulation of Sr$^{90}$, Y$^{90}$, Ce$^{144}$, Ru$^{106}$, Fe$^{59}$, and S$^{35}$ in the Developing Black Sea Haddock Roe ................................................................. 92
S. N. Aleksandrov. Pathogenesis of the Long-Term Aftereffects of Irradiation .......................................................... 98
M. N. Novikova. Hyperbasophilic Cells as an Index of Proliferation of the Bone Marrow Transplanted to Irradiated Dogs .... 109

Available From Atomic Energy Commission Tr-6598

- 122 -
K. A. Lebedev. Immunological Response of Rabbits Irradiated with X-Rays after Repeated Administration of Antigen............. 132
P. N. Kiselev, K. I. Nikitina, and Cheng Shao-chang. Significance of the Formation of Antidendotoxins Against E. Coli in the Clearing of the Hemorrhagic Syndrome in Radiation Sickness... 142
V. N. Sakharov, V. A. Otroshchenko, and N. L. Voronkova. A Comparison of the Efficiency of Suppression of Mitosis During Separate Irradiation of Nuclear and Cytoplasmic Structures .................................................... 151
I. F. Bregadze. Reducing the Radiation Damage to Isolated Cells of Mammals by a Number of Amino Acids ......................... 156
M. N. Trushina, A. L. Pozdnyakov. The Use of Embryonic Hematopoietic Liver Cells in the Acute Radiation Sickness of Rats... 165
N. N. Nazirov, F. Dzhanikulov. The Production of Mutations in the Cotton Plant by Means of Radiophosphorous ..................... 172
V. I. Ivanov, G. B. Zavil'gel'skii, A. S. Kriviskii. The Protective Action of Versene Against Ultraviolet Injury of a Number of Phages of Escherichia Coli................................. 178
E. K. Uzorin, A. M. Kuzin. A Study of the Optical Properties of Natural Chlorophyll in the Plant Leaves Upon Gamma Irradia-
tion of Pisum Sativum Seeds ........................................ 189
L. S. Nemtseva. The Aftereffect of Fast Neutrons in Seeds of Crepis Capillaris ............................................ 201
S. A. Valeva. The Causes of Varying Radiosensitivity in Closely Related Plants. Communication II .................................. 208
V. V. Khvostova, K. A. El'shuni. Partial Mitigation of the Damaging Effect of Irradiation in Barley Seeds......................... 218
Brief Communications ................................................ 239
N. V. Ermolaeva, A. L. Pozdnyakov. The Localization of Soluble DNA in Lymphoid Tissue of the Appendix at Early Periods After Whole-Body Gamma-Irradiation....................... 239
Yu. A. Medvedev, G. A. Vasil'ev, V. A. Belyaev. An Increase in Oxygen Consumption During the Irradiation Period as a Nonspecific Reaction Which is Realized Through the Adrenal Cortex ................................................... 243 (Continued)

Available From Atomic Energy Commission Tr-6998

- 123 -
G. M. Pravdina, N. G. Darenskaya. Comparative Radiosensitivity of Wistar Rats and Rats Having no Breed................. 247

Letters to the Editor...................................................... 250

N. M. Makarov. The Effect of Chronic Gamma Irradiation on the Pea and Vetch .............................................. 250

Andrey Vladimirovich Lebedinskii................................. 255

Available From Atomic Energy Commission Tr-6598
# TABLE OF CONTENTS

Gavriil Sergeevich Strelin (On His 60th Birthday) .......... 1


T. I. Ivanenko. Effects of Irradiation on Corticosteroid Biosynthesis in the Adrenal Cortex ........ 14

L. I. Polikarpova. Calcium Content in the Tissues of Guinea Pig Blood Vessels after Injection of Ionizing Radiation ........ 19

E. N. Sedriveva. Functional State of the Hematogenic System in Dogs during the Recovery Period after the Chronic Influence of Sr90 and Gamma Irradiation .......... 23

M. A. Levchenko. Disturbances of the Cardiac Activity in the Offspring of Rats Injured by Strontium-90. .... 30

V. I. Evsyukov. Effects of X-rays on the Regeneration Capacity of the Sciatic Nerve of the Rat under the Local and Total Influence of Radiation .......... 36


P. F. Minaev, A. P. Mironova. Influence of Radiation on the Vegetative Functions of the Organism after the Administration of Protective Substances .... 48

D. R. Kaulen. Influence of Cortisone and ACTH on the Resistance of Irradiated Animals to Bacterial Toxins (Continued) 54

Available From Atomic Energy Commission TR 6600
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. D. Alekseenkov. Delay of Division and Interphase Death as an Index of Differential Radiosensitivity of Mammalian Bone Marrow Cells at Various Phases of the Cellular Cycle after X-ray Irradiation in a Dose of 50 R</td>
<td>60</td>
</tr>
<tr>
<td>M. N. Myasnik. On the Problem of Deletions in E. Coli B/r, Induced by X-rays, Ultraviolet Light, and Nitrous Acid</td>
<td>69</td>
</tr>
<tr>
<td>S. G. Pegel'man, Yu. I. Vakher. Effects of Sublethal Doses of Gamma Irradiation on the Growth and Development of Chicks</td>
<td>74</td>
</tr>
<tr>
<td>D. Kh. Khamidov, K. A. Zufarov, Z. G. Sa'Idaliev. Histochemistry of the Nucleic Acids of the Adrenals in Total Gamma Irradiation by Co$^{60}$</td>
<td>94</td>
</tr>
<tr>
<td>E. S. Galdove, V. N. Ivanov, S. P. Yarmonenko. Cytological Analysis of the Effects of High-Energy Protons, V. Comparative Data on the Effects of 660-MeV Protons and the Gamma Rays of Co$^{60}$ on the Testes</td>
<td>89</td>
</tr>
<tr>
<td>Yu. V. Korogodina. Peculiarities of the Damage to Chick Blastoderm in Irradiation in Ovo</td>
<td>101</td>
</tr>
<tr>
<td>T. K. Dzhark'yan, D. A. Golubentsev, V. G. Vladimirov. Effects of Sulfur-Containing Radioprotective Preparations on the Biochemical Changes in the Irradiated Organism</td>
<td>119</td>
</tr>
<tr>
<td>V. A. Revis. On the Mechanism of the Radioprotective Effect of Subcutaneous Transplantations of Hemopoietic Tissues in Acute Radiation Injuries</td>
<td>137</td>
</tr>
<tr>
<td>M. I. Bokk, L. A. Il'in. Search for Preparations that Reduce the Assimilation of Thallium-204 in the Gastrointestinal Tract</td>
<td>145</td>
</tr>
<tr>
<td>V. V. Khvostova, V. S. Mozhaeva. Mutagenic Effect of Gamma Rays and Fast Neutrons during Influence on Winter Wheat Seeds</td>
<td>154</td>
</tr>
</tbody>
</table>

Available From Atomic Energy Commission Tr-6600
G. V. Il'ina, N. Kuznetsova, S. G. Rvdiky. Influence of Ionizing Radiation and Physiologically Active Substances on Plant Metabolism ........................................ 163

A. I. Nefedova, E. I. Popova. Distribution of Sodium-22 among the Components of a Reservoir .................................................. 170

N. A. Timofeeva, A. L. Agre. Coefficients of Accumulation of Strontium-90 by Fresh-Water Plants from Solutions of Different Specific Activities ..................................... 178

K. K. Aglintsev, V. P. Kasatkina. Energy Spectra and Linear Energy Losses in Fields of Beta Emitters ........................................ 181

E. B. Nikol'skaya, V. V. Den'ga, E. A. Ivanenko, I. V. Popova. Influence of Temperature on the Activity of Alkaline Phosphatase Irradiated by the Gamma Rays of Cobalt-60, .................. 188

N. I. Brodskaya. Influence of X-ray Irradiation on the Metabolism of Glycogen Fractions in the Brain and Liver of Rats of Various Ages ........................................ 191

Yu. M. Hadievskiy, G. S. Kolesnikova. Change in the Water Metabolism in the Rat Liver under the Influence of Ionizing Radiation ............................................... 197

V. I. Ternov. Phagocytic Activity of Neutrophils of the Blood of White Rats under the Chronic Influence of Radioactive Calcium-45 ............................................... 201

A. Z. Serikova, O. K. Makhalova. Changes in the Coagulability of the Blood in Dogs during Acute Radiation Sickness according to the Data of Thromboelastography .................. 206

V. S. Genes, I. A. Kogan. Influence of Acute Radiation Sickness of Various Degrees of Severity on the Reactivity of the Rat Nervous System to Burns .................................. 212

M. A. Tumanyan, O. V. Protasova. Effects of Irradiation on the Anaphylactic Reaction of Animals with Low Sensitivity to Anaphylaxis .............................................. 216

V. G. Kondratenko. Eighth All-Union Congress of Roentgenologists and Radiologists ............................................................. 220

Available From Atomic Energy Commission Tr-6600
CONTENTS

A. M. Reznik, Structure of an Optimum Receiver for the Detection of a Local Signal Source in a Noise Field ............................ 837
C. A. Zhvekin and A. P. Naumov, The Coefficient of Absorption of Centimeter and Millimeter Radio Waves in Atmospheric Oxygen ............. 844
Bivasvanlal Dass, On Maximum Directivity of Symmetrical Systems of Radiators ...................................................... 850
E. A. Ivanov, On a Linear System of Spherical Radiators ......... 859
P. V. Ufimtsev, Transverse Diffusion for Dissection by a Wedge ................................................................. 866
M. S. Bobrovnikov, G. G. Goshin and V. P. Smirnov, Some Problems in Effective Excitation of Radial Cylindrical Surface Waves ............. 875
A. L. Terseshchenko and A. G. Sheyn, Slow-Wave Structures Using Diaphragm-Type Waveguides Having Cross-Shaped Cross Section ............. 880
V. P. Shetapalov and V. V. Schecht, Discontinuities in Rectangular Waveguides: Capacitive Obstacles ........................................ 892
V. G. Khariteshev, Propagation of the Fundamental Wave in a Coaxial Line with Nonuniform Dielectric Filling ................................ 904
I. P. Kotik and A. N. Sinov, Analysis of the Phase Characteristics of Nonsymmetric Waves and of the Filtering Properties of a Helical Waveguide ............................................................................. 911
A. S. Popov, Correlation Functions of the Output Voltage of a Switched RC-Integrator ................................................................. 917
Yu. N. Bakayev, Synchronizing Properties of a Phase Type AFC of the Third Order .............................................................. 926
A. E. Yorokhov, B. Ya. Mynchen, O. M. Nilo and P. A. Chudnovsky, The Pulsed Emission and Thermal Conditions of an Oxide Cathode ................................................................. 930
A. L. Mikaelyan and Yu. G. Yurkov, Energy Conversion Efficiency in a Medium with Population Inversion ........................................ 935
L. E. Bahkrah, Maximum Electron-Beam Current Under the Assumption of a Constant Space-Charge Density .......................... 943
T. S. Grishnikov, The Photomagnetic Effect for a Front-Illuminated p-n Junction ................................................................. 949
G. E. Chakya, The Effect of High Fields on the Thermionic Emission of Semiconductors .............................................................. 954
O. F. Goryunova, The Dynamic Properties of Small Area Ohmic Contacts with Semiconductors ......................................................... 960
BRIEF COMMUNICATIONS
V. B. Tsvetlin, Measurement of Sidetone Levels and Antenna Phase Patterns in the Near Zone ................................................................. 963
I. N. Litvinenko and V. P. Shetapalov, Diffraction Properties of Two-Element InSymmetrical Metallic Arrays ........................................ 968
B. M. Petrov, Intrinsic and Mutual Radiation Conductances of Slots on a Wedge ................................................................. 971
I. H. Grkher, G. S. Luk'yanovich and K. F. Sergeyevich, Combined Slot Exciter of H11 and E11 Waves in a Circular Waveguide ...... 974
A. N. Gryaznov and V. A. Shevchenko, Natural Oscillations of Dielectric Resonators ................................................................. 977
V. S. Letokhov, Space Effects of a Heterodyned Light Wave ................................................................. 980
S. P. Yerokhov, U. V. Petroskaya, F. S. Gashkin, G. A. Tregubov and Yu. V. Shablin, Optical Modulator at UHF Frequencies ........................ 983
D. N. Vylichkhin and M. Kh. Zelikman, Generation Threshold of a Ruby Laser with Pumping Energy Dissipation in the Crystal ............. 984
V. S. Averbakh, S. N. Vlasov and V. I. Talanov, Effect of First- and Second-Order Aberrations on the Characteristic of an Open Resonator ................................................................. 988
I. G. Kytikov and L. B. Yakov, Design of Stepped Transitions and Directional Couplers with an Arbitrary Number of Elements .......... 991
V. N. Ivanov, Effect of Slot Cavities on the Frequency Spectrum of a Magnetron Anode Block ................................................................. 993
Yu. I. Aukhov, Determination of a Negative Depression Coefficient Region in Traveling-Wave Tubes for the Case of Small Heiz Parameters ................................................................. 996
O. I. Melnikov, A Parametric Frequency Divider in the Microwave Region ................................................................. 997
B. Ch. Dyublas, The Thermionic Emission of Some Refractory Metals in Barium Vapor ................................................................. 999
LETTERS TO THE EDITORIAL STAFF
Yu. A. Tkhorit, The Rise Time of Diodes with a p-n Junction for Low Minority Carrier Leakage Rates through a Non-Rectifying Contact (Remarks directed toward [1]) ................................................................. 1000

Available from the Institute of Electrical and Electronic Engineers
THEORY OF PROBABILITY AND ITS APPLICATIONS
Index for Volume IX
March-December 1964

CONTENTS
S. P. BOROVKOV: An investigation of the Free Verse in Pushkin's "Songs of the western slav" 236
A. A. BOROVKOV and B. A. ROGOZIN: Boundary value problems for some two-dimensional random walks ................................................ 361
E. V. BULINSKAYA: Some results concerning optimum inventory policies .......................... 530
A. P. CHEREKHIN: On control by a single switching operation when small random perturbations are present ...................................................................................... 277
V. P. CHISTYAKOV: (See B. A. Savost'yanov)
R. L. DORSEY: Investigation of conditions for the asymptotic existence of the configuration integral of Gibbs' distribution ......................................................... 566
A. M. EL'IN and R. Z. KHAJ'INSKII: On equations of Brownian motion .......................... 421
N. P. KANDERKAI and V. V. SOZANOVA: On a central theorem for random elements with values in Hilbert space ........................................................ 38
D. G. KENDALL: Some recent work and further problems in the theory of queues ........ 1
R. Z. KHAJ'INSKII: (See A. M. El'In)
K. KRICKBERG: Convergence of conditional expectation operators .................................. 538
Yu. V. LISHNEK: On A. Wald's test comparing two normal samples .......................... 14
P. MANDEL: Diffusion processes with a weakly absorbing barrier ................................... 258
K. R. PARTHANARAYAN and S. R. S. VARADHAN: Extension of stationary stochastic processes 65
W. RICHTER: Multi-dimensional limit theorems for large deviations and their application to the $x^4$ distribution ........................................ 28
B. A. ROGOZIN: On the distribution of the first jump ........................................ 450
M. ROSENBLATT: Equicontinuous Markov operators .................................................. 180
Yu. A. ROZANOVA: On probability measures in functional spaces corresponding to stationary Gaussian processes ........................................ 404
B. A. SAVOST'YANOVA and V. P. CHISTYAKOV: Asymptotic normality in the classical ball problem 198
A. N. SHIRYAEVA: On Markov sufficient statistics in non-additive Bayes problems of sequential analysis .............................................................. 604
A. V. SIZOVA: Boundary conditions for certain Markov processes .......................... 382
V. V. SOZANOVA: (See N. P. Kandelaki)
S. R. S. VARADHAN: (See K. R. Parthasarathy)
V. A. VOLKONSKII: Optimum estimation of the moment of emergence of a signal in the presence of multiplicative high-frequency Gaussian noise ........................................ 72
N. N. VOROZ'YEV: On families of random transitions ........................................ 47
A. KH. ZAILAVSHI: On the isomorphism problem for stationary processes .................. 291
V. M. ZOLOTAREV: On asymptotically best constants in refinements of mean limit theorems 268

(Continued)
Available From Society for Industrial and Applied Mathematics

- 129 -
SPORT COMMUNICATIONS

V. G. ALEKSEEV: Some methods for the exact determination of a parameter of a Gaussian stochastic process .................................................. 466
V. I. AKIN: A problem of optimum distribution of search effort .......................... 159
— Uniformly optimal strategies in search problems ....................................... 674
V. I. BAREN: On the distribution of the position of the maxima of a diffusion process with variable parameter .................................................. 338
A. A. BELEZNOV: On the solution of a probabilistic non-equilibrium problem for distributed systems .................................................. 469
P. F. BELAHEV: The probability of non-occurrence of a given number of outcomes 489
YU. N. BLAGOVISHCHENSKII: Cauchy's problem for degenerate quasilinear parabolic equations 342
L. N. BULZHIN: On M. Kadyrov's random numbers in J. Janko's statistical tables 136
— Distributions related to the hypergeometric distribution .................................. 619
A. A. BOROVKOV: Remarks on Weiner's and Blackwell's theorems .......................... 303
E. V. BULINSKAYA: Steady-state solutions in problems of optimum inventory control 562
A. P. CHIRIKOV: A problem of parameter control involving small random perturbations 487
D. M. CHIRIKOV: On limit distributions for order statistics .................................. 142
— On the asymptotic power of goodness-of-fit tests for close alternative hypotheses 507
V. P. CHISTYAKOV: A theorem on sums of independent positive random variables and its applications to branching random processes 640
— On the calculation of the power of the test of empty boxes .......................... 648
M. I. FRIEDLIN: Dirichlet's problem for an equation with periodic coefficients depending on a small parameter .......................... 121
N. G. GANDEL: On a local limit theorem for lattice random variables .................. 662
A. O. GELFOND: An estimate for the remainder term in a limit theorem for recurrent events 299
R. S. GETER: On the probability of detecting a region by a linear search .................. 331
W. HOFFMANN: On a theorem of V. M. Zolotarev ........................................... 89
E. GYACHYASHVA: Search by an oval .......................................................... 634
— On statistical quadrature ........................................................................ 637
I. A. ISRAILEVSKII: On the asymptotic behavior of the prediction error ............... 627
B. M. KLUM: Topology in a group and convergence of distributions .................. 111
A. A. KOZHDOR: (See S. M. Vishik) .......................................................... 507
V. P. KOTEL'NIKOV: A nomogram connecting the parameters of Weibull's distribution with probabilities .......................... 670
N. V. KRYLOV and A. A. YUSHKEVICH: On Markov random sets .......................... 666
YU. V. LINNIK: (See A. A. Zinger) .......................................................... 507
T. L. MAL'CEV: The asymptotic behavior of an estimate for the spectral function of a stationary Gaussian process .................. 350
S. A. MOLCHANOV: On a problem in the theory of diffusion processes ................. 472
E. A. NADARAYA: On estimating regression .................................................. 141
— Some new estimates for distribution functions ............................................. 497
M. B. NEVELSON: On the behavior of the invariant measure of a diffusion process with small diffusion on a circle .......................... 125
M. S. NIKOL'SKII: On the probability of a Markov point falling into a plane region with small diameter .................................................. 320
K. R. PASHAMARATSEV and V. V. SOZANOV: On the representation of infinitely divisible distributions on locally compact Abelian groups 108
V. V. PETROV: On local limit theorems for sums of independent random variables 312
YU. V. PROKHOROV: (See O. V. Vatov) .................................................. 149
I. V. ROMANOVSKII: On evaluating final states in inventory processes ................. 477
A. L. ROMOLTI: (See S. M. Vishik) .......................................................... 138
YU. A. ROZANOV: On the stability of solutions of linear problems for stationary processes 477
A. P. SAVCHUK: On estimates for the entropy of a language according to Shannon .......................... 138

(Continued)
F. V. Shirkov: On I. D. Cherkasov's paper "On the transformation of a diffusion process to a Wiener process" ......................................................... 156
Yu. L. Shmul'yan: Optimum factorization of non-negative matrix functions ......................................................... 346
M. G. Shur: On functions which are superharmonic for Markov processes ......................................................... 114
I. M. Sobol': On periods of pseudo-random sequences ......................................................... 533
V. V. Sozanov: Answer to a question of R. L. Dobrushin ......................................................... 160
— : (See K. R. Parthasarathy)
V. N. Tutubalin: Compositions of measures on the simplest Nilpotent group ......................................................... 479
N. N. Vahaniya: On normal distributions in $l_p$ ......................................................... 665
I. N. Verbitskaya: On conditions for the strong law of large numbers to be applicable to second order stationary processes ......................................................... 325
D. Vere-Jones: A rate of convergence problem in the theory of queues ......................................................... 96
A. M. Vershik: Some characteristic properties of Gaussian stochastic processes ......................................................... 353
O. P. Vinogradov: On an age-dependent branching process ......................................................... 131
S. M. Vishik, A. A. Kozin and A. L. Rosenthal: Separating partitions for a finite family of measures ......................................................... 148
O. V. Viskov and Yu. V. Prokhorov: The probability of loss of calls in heavy traffic ......................................................... 92
— : Two asymptotic formulas in the theory of queues ......................................................... 158
P. Whittle: On the convergence to normality of quadratic forms in independent variables ......................................................... 103
E. B. Yanovskaya: Minimax theorems for games on the unit square ......................................................... 500
A. A. Yushkevich: (See N. V. Krylov)
A. A. Zinger and Yu. V. Linke: On polynomial statistics for the normal and related laws ......................................................... 494
— : and — : A Characteristic property of the normal distribution ......................................................... 624
V. M. Zolotarev: The first passage time of a level and the behavior at infinity of a class of processes with independent increments ......................................................... 653
Information concerning the symposium on limit theorems ......................................................... 167
Letters to the editor ......................................................... 168 and 513
Reviews and bibliography ......................................................... 515
The seventh all-union conference on probability theory and mathematical statistics ......................................................... 167
Summary of papers presented at the meetings of the probability and statistics section of the Moscow mathematics society ......................................................... 161, 356, and 681
Summary of papers presented at the meetings of the mathematical statistics seminar at the mathematics institute of the academy of sciences, USSR, 1963 ......................................................... 509

Available From Society for Industrial and Applied Mathematics
<table>
<thead>
<tr>
<th>Title</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improving Product Quality - A Basic Requirement for Development of the Economy</td>
<td>1</td>
<td></td>
<td>(1)</td>
</tr>
<tr>
<td>V. I. Dediaev and V. S. Volodin Sorption Method of Removable Chalcophile Compounds from the Waste Water of Concentration Plants</td>
<td>5</td>
<td></td>
<td>(3)</td>
</tr>
<tr>
<td>L. D. Kislyakov, V. A. Bocharov and G. I. Zhamnikov flotation practice for urals pyrites and ways to improve the qualitative indexes of concentration</td>
<td>11</td>
<td></td>
<td>(11)</td>
</tr>
<tr>
<td>Yu. I. Nikitin Selective flotation of Copper-Zinc Ores from Cementation Zones</td>
<td>14</td>
<td></td>
<td>(14)</td>
</tr>
<tr>
<td>S. I. Mitrofanov and V. G. Kushnikova Sorption of Chrome Compounds on Sulfide Minerals when Adding Bichromate</td>
<td>16</td>
<td></td>
<td>(15)</td>
</tr>
<tr>
<td>A. I. Levin and V. A. Mukhin Use of Channel-Type Electrolytic Cells in Electrolytic Copper Refining</td>
<td>18</td>
<td></td>
<td>(18)</td>
</tr>
<tr>
<td>B. N. Laskorin and V. K. Timofeev Absorptive Extraction of Cobalt and Nickel from Ammonia Media</td>
<td>23</td>
<td></td>
<td>(23)</td>
</tr>
<tr>
<td>A. L. Zagranitskii Precipitating Cobalt with Potassium Xanthogenate</td>
<td>26</td>
<td></td>
<td>(25)</td>
</tr>
<tr>
<td>N. A. Kosiulin and L. N. Pavlov Hydraulic Resistance of a Layer of Crushed Bauxite Sinter during Counterflow Leaching</td>
<td>34</td>
<td></td>
<td>(33)</td>
</tr>
<tr>
<td>M. F. Dogramdzhi, S. E. Gefter and A. I. Kulakov Magnetic Field in Aluminum Electrolysis Shops</td>
<td>39</td>
<td></td>
<td>(38)</td>
</tr>
<tr>
<td>L. D. Margolis, Z. V. El’tsova and L. A. Zherebnoi Sodium Content in Aluminum</td>
<td>43</td>
<td></td>
<td>(42)</td>
</tr>
<tr>
<td>E. F. Chalykh and I. M. Roseman Some Problems Connected with the Kinetics of Oxidation for Cold-Pressed Moulded Pitch-Coke Samples</td>
<td>45</td>
<td></td>
<td>(44)</td>
</tr>
<tr>
<td>M. A. Korobov Ways of Reducing Coke Losses in the Production of Anode Paste</td>
<td>49</td>
<td></td>
<td>(47)</td>
</tr>
<tr>
<td>L. S. Getskin and V. N. Leksin Present State of Rare Metals Recovery at Lead and Zinc Plants</td>
<td>54</td>
<td></td>
<td>(51)</td>
</tr>
<tr>
<td>A. A. Bedzhian, V. M. Zhukovskii and E. A. Vetrenko Thermodynamic Analysis of the Behavior of Rare Elements during Preselection</td>
<td>57</td>
<td></td>
<td>(55)</td>
</tr>
<tr>
<td>E. Z. Ermanok Influence of Billet Wall Thickness and Steepness of the Roll Ridge on the Degree of Reduction in the Instantaneous Deformation Zone</td>
<td>61</td>
<td></td>
<td>(59)</td>
</tr>
<tr>
<td>F. S. Dolshankov and Yu. I. Krivonosov Cohesion strength of titanium-steel Bi-Metal Layers under Vacuum Rolling</td>
<td>65</td>
<td></td>
<td>(63)</td>
</tr>
<tr>
<td>G. N. Volkogon and I. L. Rogal’berg Influence of Certain Elements on Nickel Plasticity at Increased Temperatures</td>
<td>68</td>
<td></td>
<td>(66)</td>
</tr>
<tr>
<td>V. D. Burakov, V. E. Ivanov, Yu. P. Kurilo and A. I. Somov Aluminium Recovery from Silicoaluminate Alloys by Evaporation in a Vacuum</td>
<td>73</td>
<td></td>
<td>(71)</td>
</tr>
</tbody>
</table>

Available From Primary Sources
Vol V, No 6, 1964
## Table of Contents (Cont.)

<table>
<thead>
<tr>
<th>Authors</th>
<th>Title</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. D. Grishina and V. L. Grishin</td>
<td>SPOT WELDING OF THE VAD23 ALLOY</td>
<td>76 (74)</td>
</tr>
<tr>
<td>V. P. Severdenko, K. I. Kalachev and P. A. Andrey</td>
<td>EFFECT OF DEFORMATION RATE AND TEMPERATURE ON TITANIUM STRETCHING</td>
<td>77 (75)</td>
</tr>
<tr>
<td>V. V. Sokolovskii and V. G. Plokov</td>
<td>PRODUCTION OF EXTRA-PURE LEAD</td>
<td>79 (76)</td>
</tr>
<tr>
<td>S. Sh. Ginzburg</td>
<td>USING WASTES FROM ZINC CONTAINING MATERIALS CONVERTED TO ZnO</td>
<td>81 (78)</td>
</tr>
<tr>
<td>A. L. Zabolotkaya</td>
<td>BEHAVIOR OF INDIUM AND GERMANIUM WHEN TREATING CLINKER</td>
<td>84 (81)</td>
</tr>
<tr>
<td>S. A. Ershov, L. G. Povodskaya and V. M. Cherneyev</td>
<td>MELTABILITY OF GRAPHITE AND QUARTZ WITH ZINC AND ANTIMONY</td>
<td>86 (83)</td>
</tr>
<tr>
<td>A. I. Den'yanenko and I. V. Chalov</td>
<td>USE OF HYDROCYCLOMENES FOR THICKENING AND CLASSIFYING HYDRATE PULPS</td>
<td>87 (83)</td>
</tr>
<tr>
<td>B. V. Vakhmistrov</td>
<td>SQUELLING ALUMINUM WASTES IN INDUCTION CRUCIBLE FURNACES OF INDUSTRIAL FREQUENCY</td>
<td>89 (86)</td>
</tr>
<tr>
<td>N. N. Sycheva</td>
<td>PUBLIC REVIEW OF THE COMPLETION OF PLANS FOR RESEARCH AND OF THE INTRODUCTION OF SCIENTIFIC ADVANCES DURING 1963, CONDUCTED AT NTO GINITsvetmet</td>
<td>92 (87)</td>
</tr>
<tr>
<td>O. A. Khan, N. Kh. Pikov and G. N. Semenovskii</td>
<td>ON CALCIUM ELECTROLYSIS</td>
<td>94 (88)</td>
</tr>
<tr>
<td>V. I. Beregovskii and A. S. Pen'ko</td>
<td>PLAN AND FLOWSHEET OF THE NEW THOMPSON NICKEL PLANT IN CANADA</td>
<td>96 (90)</td>
</tr>
</tbody>
</table>

### RUSSIAN ABBREVIATIONS IN TEXT

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>AN SSSR</td>
<td>Academy of Sciences, USSR</td>
</tr>
<tr>
<td>CC CPSU</td>
<td>Central Committee, Communist Party Soviet Union</td>
</tr>
<tr>
<td>Gintsvetmet</td>
<td>State Institute of Non-Ferrous Metals</td>
</tr>
<tr>
<td>Giprotavoiet</td>
<td>State Institute for the Design and Planning of Non-Ferrous Metals Industry Establishments</td>
</tr>
<tr>
<td>Gosplan</td>
<td>State Planning Committee of the Council of Ministers, USSR</td>
</tr>
<tr>
<td>GOST</td>
<td>All-Union Standard</td>
</tr>
<tr>
<td>Kazh SSR</td>
<td>Kazakh SSR</td>
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<tr>
<td>Mashgiz</td>
<td>State Scientific and Technical Publishing House of Literature on Machinery</td>
</tr>
<tr>
<td>Nekhanetbr</td>
<td>Scientific Research Institute for the Mechanical Concentration of Minerals</td>
</tr>
<tr>
<td>Metallurgizdat</td>
<td>State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy</td>
</tr>
<tr>
<td>MTs</td>
<td>Scientific and Technical Society</td>
</tr>
<tr>
<td>OTK</td>
<td>Technical Control Division (of plant)</td>
</tr>
<tr>
<td>Somarkhos</td>
<td>Council of the National Economy</td>
</tr>
<tr>
<td>TsIN TsN</td>
<td>Central Office for Information on Non-Ferrous Metals</td>
</tr>
<tr>
<td>USSR</td>
<td>Ukrainian SSR</td>
</tr>
<tr>
<td>VAMI</td>
<td>All-Union Alumina and Magnesium Institute</td>
</tr>
</tbody>
</table>

Available From Primary Sources

Vol V, No 6, 1964
Table of Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. D. Timakov and G. Ya. Kagan. Results and Future Prospects in the Study of Bacterial L-Forms and the <em>Mycoplasmataceae</em> Family</td>
<td>1</td>
</tr>
<tr>
<td>M. A. Peshkov and L. A. Shadrina. Substructure of Heteromorphic Forms of Achromobacter epsteinii and E. coli</td>
<td>16</td>
</tr>
<tr>
<td>L. A. Shadrina. Comparative Analysis of Substructures of the L-Forms of <em>P. Vulgaris</em> and Str. Haemolyticus</td>
<td>23</td>
</tr>
<tr>
<td>S. V. Prozorovskiy, G. A. Levina, S. V. Blinova and N. I. Vinnikova. Some Physiological Features Peculiar to the Bacterial L-Forms of Various Types and to Mycoplasma Organisms as Possible Sources of Their Differentiation</td>
<td>35</td>
</tr>
</tbody>
</table>

(Continued)
CONTENTS continued

A. N. Bitkova, Ye. I. Koptelova and R. P. Kavtorina. Chemical Composition of Group A Beta-Hemolytic Streptococcus L-Cultures and Their Revertants ............................................. 43
V. S. Levashov. Genetic Mechanisms for the Formation of Bacterial L-Forms and Prospects of Further Research. ..................... 47
N. S. Goryachkina and V. S. Levashov. Lysogenicity of Bacterial Variants with a Modified Cell Wall Reproduced in the Spheroplasts and L-Forms .................................. 54
L. M. Ustimenko. L-Forms of Treponema Pallidum .................................................. 67
I. V. Rakovskaya. Biological Characteristics of Mycoplasma Contaminants of Tissue Cultures .................................................. 72
Ye. I. Koptelova, V. I. Pokrovskiy and Ye. P. Gorkshkova. A Model of Experimental Meningitis of Rabbits Produced by Streptococcal and Staphylococcal L-Forms ............................. 86
V. A. Fradkin. Allergenic Properties of the Hemolytic Streptococcus L-Form Grause Antigen ......................................................... 92

Available From Joint Publications Research Service 33011

- 135 -
| N. M. Porubinovskaya, M. S. Zakharova and M. A. Furman. Experience in the Detection of Diseases Produced by M. Pneumoniae | 118 |
| N. M. Emanuel'. Prospects for Kinetic Research into Biochemical Processes in the Effective Chemotherapy of Cancer | 124 |

*Available From Joint Publications Research Service 33011*
Table of Contents

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. N. Aleksandrov.</td>
<td>Pathogenesis of Remote Consequences of Radiation</td>
<td>12</td>
</tr>
<tr>
<td>N. V. Luchnik.</td>
<td>Biological Analysis of Primary Biological Radiation Effects</td>
<td>16</td>
</tr>
<tr>
<td>N. V. Glotov.</td>
<td>On Procedures for Recording and Assessing Dynamically the Frequency of Developmental Defects in Man.</td>
<td>29</td>
</tr>
<tr>
<td>L. S. Tsarapkin, N. A. Poryadkova, N. G. Labzina, S. I. Alekseyeva and V. S. Pyatenko.</td>
<td>A Study of Processes Governing the Repair of Cells from Primary Cytogenetic Injuries</td>
<td>(Continued) 34</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33196
# CONTENTS (Continued)

<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. P. Podossov and S. I. Kharlampovich.</td>
<td>Transplantable Fibrosarcoma in Lineage Rats, Induced by Plasticized Resin and Co⁶⁰ Gamma Irradiation</td>
<td>76</td>
</tr>
<tr>
<td>A. N. Grinev, T. Yu. Il'yuchenok, V. P. Lepekhin and K. S. Shadurskiy.</td>
<td>On the Loss of Hypotensive Activity Due to Derivatives of 5-Hydroxy-Indole During Irradiation of Animals</td>
<td>82</td>
</tr>
<tr>
<td>G. K. Korolev.</td>
<td>Accumulation and Excretion Kinetics of Radioactive Cesium (Cs₁³⁷) Upon Entry into the Organs of Respiration</td>
<td>87</td>
</tr>
<tr>
<td>P. P. Filatov and Ye. S. Gaydova.</td>
<td>Some Problems of Immunopathology Upon Chronic Exposure of the Body to Radioactive Zinc (Zn⁶⁵)</td>
<td>97</td>
</tr>
</tbody>
</table>

Available From Joint Publications Research Service 33196
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>S. F. Rudakova, N. A. Zhukova, S. S. Khnychev, T. A. Susanyan and L. L. Kozlova. Some New Aspects of the Effect of Epsilon Amino Caproic Acid Upon the Body</td>
<td>113</td>
</tr>
<tr>
<td>V. M. Dorofeyev, B. V. Polushkin and N. L. Tayran. Thermal and Anaphylactoid Edema in Acute Radiation Sickness</td>
<td>119</td>
</tr>
<tr>
<td>A. V. Bykhovskiy, G. S. Komovnikov and B. V. Polushkin. Effect of Zymosan Upon the Macrophage Response of the Lungs and Phagocytosis in Acute Radiation Sickness</td>
<td>128</td>
</tr>
<tr>
<td>K. P. Kashkin and S. V. Aleksandrova. Changes in the Composition of Serum Proteins in Irradiation Injuries of Animals</td>
<td>145</td>
</tr>
<tr>
<td>L. S. Rozenshtraukh and A. S. Pogosyan. Comparative Evaluation of Contrast Agents Used in Bronchography</td>
<td>164</td>
</tr>
</tbody>
</table>
Herald of Communications

No. 9, 1965

Following is a translation of selected articles from the Russian-language periodical Vestnik syvazi (Herald of Communications), Vol. XXV No. 9, published by the Ministry of Communications USSR and the Central Committee of the Communications, Motor Transport and Highway Workers Trade Union, September, 1965, Moscow. Note: Original source pages are given in the left-hand margin. Summaries within brackets are those of the translator.

Table of Contents

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest Communication Equipment</td>
<td>1</td>
</tr>
<tr>
<td>A Thematic Exhibition at the All-Union Exhibition of the Achievements of National Economy</td>
<td>4</td>
</tr>
<tr>
<td>&quot;Nedra-P&quot; in Field Camps</td>
<td>5</td>
</tr>
<tr>
<td>Editorial. Raising the Earning Capacity and Profitableness of the Communications Industry is a Most Important Task</td>
<td>6</td>
</tr>
<tr>
<td>The Fulfillment of the 1965 Plan Must Be Successfully Completed</td>
<td>14</td>
</tr>
</tbody>
</table>

Communication Engineering

Circuits for Setting Up Telegraph Links Using the System of Direct Connections, by V. V. Filippov 23

The Employment of Separated Reception on Radio-Telephone Communication Lines, by G. I. Gomer 36 (Continued)

Available from Joint Publications Research Service 33017
<table>
<thead>
<tr>
<th>CONTENTS continued</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculation of the Attenuation of Multiplexed Wire-Broadcast Distribution Lines, by L. I. Shteynbuk</td>
<td>52</td>
</tr>
</tbody>
</table>

**COMMUNICATION ECONOMICS**

Setting the Standards for Working Funds at the Communications Enterprises, by A. B. Naydenova | 55 |

**ORGANIZATION AND OPERATION OF COMMUNICATION FACILITIES**

Labor Laws Must Be Strictly Observed at the Communications Enterprises, by V. N. Lebedev | 60 |

The Pneumatic Conveyor System at L'vov Telegraph and Telephone Office, by M. Ya. Gliberson and I. M. Pavlyuchenko | 67 |

The Indexing of Telegraph Correspondence, by A. A. Panteleyenko and Ye. A. Livshit | 73 |

Important Tasks Are Ahead, by A. A. Shemarina | 78 |

Well-Kempt Communications Branch Offices for the Villages, by P. I. Pershin | 86 |

**ADVICE**

Advice on the Postal Service Matters, by I. P. Shamanayev | 88 |

**REVIEWS AND BIBLIOGRAPHY**

A Good Textbook, by A. V. Sheremet'ev | 88 |

Slonim Relay Station | 90 |

New Communications Branch Offices | 90 |

Available From Joint Publications Research Service 33017
<table>
<thead>
<tr>
<th>CONTENT continued</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Automatic Telephone Offices</td>
<td>90</td>
</tr>
<tr>
<td>An Improved System for Duplex Conference-Call Telephone Service</td>
<td>91</td>
</tr>
<tr>
<td>The Communications Center in Torzhok</td>
<td>92</td>
</tr>
</tbody>
</table>

***

Among Books .................................................. 93

Available From Joint Publications Research Service 33017

- 142 -
CONTENTS

ENG. | RUSS.
--- | ---
Armenak Levonovich Mndulyan-M. A. Bahlyan .................................................. 3919 | 3859
Physicochemical Analysis of Binary Systems Containing Formic Acid and an Ester or Ether
Liquid-Vapor Equilibrium in the Systems Acetic Acid-Water and Acetic Acid-Water-Salt
Under Isothermal (40° and 60°) and Isobaric (760 mm) Conditions—L. N. Tsiparis and N. Yu. Smorigine. .......................................................... 3927 | 3867
Effect of the Replacement of a Benzene Nucleus by a Naphthalene or Anthracene Nucleus
1. Absorption Spectra of N-p-Nitro- and N-2,4-Dinitro-Phenethyl-1-Naphthylamines—V. A. Izmail’skii and Yu. A. Fedorov ........................................ 3932 | 3872
Cyclization of Glycyl-Phenylalanine Tetrapeptides—E. A. Morozova, L. V. Ionova, and N. A. Trofimkaya ................................................................. 3947 | 3888
Compounds Containing a Three-Membered Epoxide Ring. XXV. Application of the Darzens Reaction for the Synthesis of Epoxyalkylphosphonic Esters—V. F. Martynov and V. E. Timofeev ............................................................ 3950 | 3890
Synthesis of 2-[(4-Hydroxybutyl)Amino]Benzyl Esters—D. V. Ioffe and S. G. Kunetskov ................................................................. 3958 | 3900
Alkylation of the Ektodium Derivative of Benzenophenone with Dihaloalkanes—D. V. Ioffe ................................................................. 3960 | 3900

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(Continued)
CONTENTS (continued)

Structures of Dianhydroxylitol and 1,4-Xylitan Acetals—G. E. Untyugabina, A. I. Kol’tsov, N. S. Tikhmireva—Sidikeva, and S. N. Danilov 3966 3905

Glycol Ethers and Their Derivatives, LXXXVII. Alkoxymethyl Alkylxanthates—Shamakhal Mamedov, T. N. Dzhalillova, and M. A. Avanesyan 3968 3907


Reactions of 2,2'-Benzylidene- and 2,2'-Furfurylidene-Diacetophenones with Acetyl Perchlorate—G. N. Dzhiofeen, Z. N. Nazarova, and V. N. Novikov 3979 3918


Synthesis of Methyl 3-(Methoxycarbonyl)-6-p-Methoxyphenyl-3-Methyl-2-Oxocyclohexaneacetate—G. I. Kiprianov and L. M. Kutsenko 3986 3925


Cyanine Dyes with a Furan Ring in the Polymethine Chain—A. N. Kiprianov and A. A. Shulezhko 3992 3929

Reactions of Nucleophilic Reagents with Esters of Propynylphosphinid Acid—A. N. Pudovik, N. G. Khusainova, and A. B. Ageeva 3998 3942

Reactions of Carbethoxycarbene and Diazomethane with Unsaturated Organophosphorus Compounds and Dialkylphosphorous Acids—A. N. Pudovik and R. I. Tarasova 4003 3946

Cyanine Dyes with an Furan Ring in the Polymethine Chain—A. N. Pudovik and R. D. Gareev 4007 3946

Reactions of Carboxylic Acid Chlorides with Salts of Diethylthiophosphorous and Phosphinous Acids—A. N. Pudovik and R. I. Tarasova 4010 3950


Reaction of the Anhydride of Methylphosphinic Acid with Some Acids and Their Salts—V. P. Evdakov, L. I. Mizrakh, and G. P. Sizova 4014 3954

Triphenylphosphazosulfonylaryls—V. L. Shevchenko, V. T. Stratienko, and A. M. Pinchuk 4015 3955

Phosphorylated N-Aryltrichloroacetamidines—G. I. Derkach, V. P. Rudavski, and G. F. Degvai 4018 3959

The Bordi Reaction with Silver Salts of Nitro Acids—I. E. Molaš and N. V. Svetlakov 4023 3964

Principles of the Addition Reactions of Diacetylenes. IV. Addition of Bromine and Mercaptans to Di substituted Diacetylenes—Yu. I. Porf’ireva, E. S. Turbanova, and A. A. Petrov 4026 3958


Complex Lipides. Synthesis of L-(-) and DL-α-Phosphatidycholines (Lecithins) with the Same and Different Acid Moieties—V. I. Shevei, L. T. Dorofeeva, M. A. Grum-Grzhimailo, I. S. Shmidt, L. V. Volkova, and N. A. Preobrazhenkidli 4042 3953

Pyran Series, Its Analogs and Related Compounds. X. Alkylation of Becluletin—V. A. Zagorevskii and Z. D. Sovaenko 4046 3987

Available From Consultants Bureau

- 144 -
CONTENTS (continued)

Study of the Reactivity of Thioanisole by the Deternium Exchange Method
- A. I. Shatenstein, E. A. Rabinovich, and V. A. Pavlov .......................... 4050 3991

Composites of Aromatic Hydrocarbons with Metal Halides and Hydrogen Halides,
I. NMR Spectra of Complex of Mesitylene with Aluminum Bromide and Hydrogen
Complexoxons, 1,3-Diamino-2-Propanol-1,N,N,N',N"-Tetraacetic Acid (DPTA) - N. M. Dyatlova,
I. A. Selivestrova, V. G. Yashumskii, and G. L. Samoilova .......................... 4061 4003
Cyanoethylation of Diamines, VI. Salts of Dicyanomethylhexamethylenediamine
Chemistry of 5-Substituted Furan Derivatives, XXII. Synthesis of Sulfur Compounds
of Furane - Z. N. Nazaurova and Yu. A. Babin .......................... 4068 4010
The Claisen Rearrangememt - E. D. Laskina, V. N. Belov, T. A. Rudol'fi,
and M. M. Shchedrina ......... 4073 4015
Reaction of Alkenic Oxides with Iodocyanates, I. - V. S. Ellis, A. P. Sineokov,
and G. A. Razuvkov ......... 4076 4018
p-Iodophenyl Derivatives of Type ArPh(OOCR)3 - V. I. Lodochnikova, E. M. Panov,
and K. A. Kocheshkov .......................... 4080 4022
Synthesis and Properties of Trialkyl(p-Bromophenoxy) Silanes, V. - G. V. Golodnikov
and L. F. Ryabenko .......................... 4082 4024
Study of Oxygen-Containing Organotin and Organolead Compounds, V. Preparation
and Bactericidal Activity of Organotin and Organolead Derivatives and Their Mixtures
with Quaternary Ammonium Salts - D. A. Kochkin, V. I. Vashkov, G. V. Kityukin,
and A. R. Saveleva .......................... 4085 4027
Synthesis of Mixed Organotin Compounds of the Type (C5H4)2SnX-L. N. Snegur
and Z. M. Manukin .......................... 4088 4030
Investigations in the Field of Aromatic Compounds with a Long Side Chain, X. Preparation
of 3-Amino-4-Chloroalkylbenzenes - L. N. Nikolaenko, A. V. Chistyakova, E. N. Karpova,
and S. A. Kabanova .......................... 4091 4032
Synthesis of Some Derivatives of Tetramethylpyperidine, II. - I. B. Simon
and V. P. Vvedenskii .......................... 4096 4037
Investigation of the Structure of Chemical Compounds with the H21° of Nuclear Magnetic
Resonance Spectra, IV. Adducts of Substituted Cyclopentadienes with Maleic Anhydride
and Their Derivatives - V. F. Bystryov, A. U. Stepansyants, and V. A. Mitrokov .......................... 4099 4039
Condensation of 1-Acrylpyrolinium Salts with Aromatic Aldehydes - A. N. Kost, A. K. Sheinkov,
and A. N. Rozengerg .......................... 4106 4046
Imides of Aromatic Sulfonic Acids, III. Synthesis of p,p'-Dihydroxybenzenesulfinamide and Its
Diacetate - N. N. Dykhonov and G. N. Nikitenko .......................... 4113 4054
Studies in the Field of the Chemistry of Free Radicals of the Hydrazine Series, XX. Synthesis
of α,α-Diphenyl-β-2,4,6-Trinitro-3-Methylphenylhydrazyl and α-(1-Naphthyl)α-
Phenyl-β-2,4,6-Trinitro-3-Methylphenylhydrazyl - L. I. Stashkov and R. O. Matveevyan .......................... 4116 4057
Investigation of the Mobility of Hydrogen Atoms in Methyl Groups of Some Methylpyridine
Derivatives - I. I. Chishevskaya, L. I. Gapanovich, and N. N. Khovratovich .......................... 4118 4059
Isotopic Exchange of Hydrogen in Methyl Derivatives of Nitrogen Heterocycles and Their
N-Oxides, II. Reactivity and Electronic Structure of Isomeric Picolines, Their N-Oxides,
and Quaternary Salts - N. N. Zapsepina, I. F. Tupityn, and L. S. Efrosh .......................... 4124 4065
Isotopic Exchange of Hydrogen in Methyl Groups of Derivatives of Nitrogen Heterocycles
and Their N-Oxides, III. Reactivity and Electronic Structure of α-Methyl-Substituted
Heterocycles and Their N-Oxides - N. N. Zapsepina, I. F. Tupityn, and L. S. Efrosh .......................... 4130 4072
(Continued)

Available From Consultants Bureau
CONTENTS (continued)

Reaction of Carboxylic Acid Amides with Nitrous Acid and Hydroxyl Compounds
- A. E. Kulkov, E. N. Zil'berman, and T. K. Golubeva

Thienyl Aldehyde and Its Derivatives-V. Egorova, V. N. Ivanova, and M. I. Potokhin

A Study of the Kinetics of the Thermal Decomposition of Ammonium Salts and Amides
- S. R. Raffikov and I. A. Alikhova

Reactions of Alkene OXides with Isothiocyanates, II. Synthesis and Properties of S-
Phenylisothiocyanato-1-thio-3-oxo-1,2-dihydropyrimidine-V. S. Edits, A. P. Sineckov, and G. A. Rasumava

The Characteristics of Secondary-Tertiary B-Glycols, V. V. I. E. Egorova, V. N. Dushko,
and E. M. Marek

Synthesis and Chemical Properties of Tetraethylphosphorodiimidites of Carbohydrates
- A. S. N. Bal'tskaya, A. P. Tuseeva, and A. P. Tuseev

The Formation of Peroxides in the Reaction of Hydroperoxides with Aldehydes
- S. D. Sokolov, L. P. Savchikova, and N. K. Kochetkov

Syntheses Based on Anabasine, XIX. Synthesis of 7-Methylquinuclidine and 8'-Methyl-
Quinuclidinyl-B-pyridine-A. S. Sadikov, M. Karimov, and Kh. A. Aliknov

The Characteristics of Secondary-Tertiary B-Glycols. V. - V. T. Chernobai

Flavonoid Compounds of Common Tansy Tanacetum vulgare L. - P. P. Khvorost,
V. T. Chernobai, and D. G. Kolesnikov

Peucedanin-A New Furocoumarin Isolated from the Fruit of Mountain Parsley
Peucedanum oreoselinum (L.) Moench.-A. P. Prokopenko

LETTERS TO THE EDITOR

Decomposition of DI-(2-Thienyl)-DI-(2-Seleneny1) Lead Under the Action of Hydrogen
Chloride-Yu. K. Ur'ev, M. A. Gal'bershtam, and I. I. Kandror

Correction to the Letter to the Editor on the Addition of Trialkylsilanes to Unsaturated
a-Oxides-V. M. Al'bitskaya, Yu. K. Ur'ev, M. A. Gal'bershtam, and N. K. Kochetkov

The Formation of Peroxides in the Reaction of Hydroperoxides with Aldehydes
and Carboxylic Acids- V. A. Terent'ev and V. L. Amornovskii

Inhibition of the Chemiluminescence of Luminol by the Addition of Certain Organic Compounds
and Use of This Effect for Analytical Purposes-A. A. Ponomarenko, B. I. Popov,
L. M. Amelina, L. V. C. Jochenko, and R. E. Shindel'

Cyanomethyleneation of Aromatics with 8-Chloropropionitriles-P. F. Butskus, G. I. Dents,
and A. I. Butskene

New Method for the Preparation of Polyfluoropropionilines-B. A. Ivan, V. I. Kolesnikov,
and E. G. Sochilin

Synthesis of 8-Thiocarbonylfluoromethylenhydantoins and Its Rearrangement to 8-Fluoroacetic
Acid-B. A. Ivan and V. G. Nemets

Proof of the Presence of a C-C Bond in Barrene (Carborane)-L. I. Zakharkin

A New Method for the Production of Phenyltrichloro- and Phenyltribromogermsenic
- V. F. Mitranov and N. S. Fedorov

Reaction of Methylaluminoxane with Methylacrylate- B. E. Gurt,
R. L. Sterlin, and L. M. Tugol'eskii

N-Substituted Amides of Furans with Carboxylic Acids-Z. N. Nasarova and N. V. Maga'yan

Direct Introduction of an Alkylation Group into Anthranilides and Polycyclic Quinones
- M. V. Kazankov and V. N. Ut'mtsev

The Reaction of FCN with 2-Benzyl-4,6-Dihydroxy-1,3,5-Triazine-V. L. Mur,
I. S. Krasovskaya, and E. A. Masalova

Some Reactions of 1-Alkoxypyridinium Salts-R. M. Titkova and V. A. Mikhailev

Synthesis of Glycides of the Furocoumarin Series. Porasilene-8 O-a-L-Rhamnosopyranoside
- N. F. Komissarenko and V. T. Chernobai

Available From Consultants Bureau
CONTENTS (continued)

 PAGE  

The Bromination of Anabasine—A. S. Sadykov, O. S. Otroshchenko, and V. K. Kiryukhin .................. 4123 4127
New Kaempferol Glycosides of Horse Chestnut (Aesculus hippocastanum L.)—V. N. Spiridonov, 
A. P. Prokopenko, and D. G. Koleshkov .................................................. 4194 4128
A Crystalline Substance from Cyclachaena xanthifolia (Nutt.) Frese. —V. I. Novikov, 
K. S. Rybalko, and K. E. Koreschuk ................................... 4196 4129
AUTHOR INDEX, Volume 34, Numbers 1-12 .................................................. 4199
TABLES OF CONTENTS, Volume 34, Numbers 1-12 .................................. 4211

The Russian date "Podpisano k pechaty" of this issue was 11/18/1964. This is equivalent to "approved 
for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably 
soon thereafter.

Available From Consultants Bureau
CONTENTS


Reaction of Aliphatic Diazo Compounds with Unsaturated Compounds. XXV. The Reaction of Diphenyldiazomethane with Silicoolefins—I. A. D'yakonov, G. V. Golodnikov, and I. B. Repinskaya ................................................ 210


Preparation of Acylated Primary—Tertiary Acetylenic Diamines—R. I. Kruglikova and T. A. Umanskaya .................... 219

Preparation of Hydroaromatic Hydrocarbons by Pyrolysis of Acetates of Secondary Alcohols Obtained on the Basis of Condensation of 1,3-Butadiene with Crotonaldehyde—N. P. Sorov ................................. 222

Synthesis of Unconjugated Nitroalkenes—Yu. V. Bashov and V. V. Perekalin .......................... 225

Synthesis and Properties of Nitro-1,3-alkadienes—A. A. Petrov, K. B. Ralli, and A. I. Vildavskaya. ................................. 229

On the Direction of Nucleophilic Addition of Mercaptans to 1,3-Enynic Hydrocarbons—B. S. Kupin and A. A. Petrov .......................... 233


Investigations in the Field of Lipids. XXVI. Synthesis of a Series of Saturated Triglycerides of Milk Fat—V. N. Klykov, G. A. Serbenenkova, and N. A. Probracozhenkli .......................... 243

Addition of Dichlorocarbene to Some αα-Cyclohexanes—V. S. Vaga and G. K. Kupetis .......................... 246

p-Nitrostyrene. II.—A. M. Shur and N. A. Barba .......................... 250

(Continued)
## CONTENTS (continued)

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fungicidal Compounds. I. Dialkylaminofluorophenyls and -flourenones</td>
<td>262</td>
</tr>
<tr>
<td>- V. I. Khmelevskii, V. V. Kuskin, A. P. Novikova, and L. N. Genova</td>
<td>262</td>
</tr>
<tr>
<td>Kinetics of Reaction of Dinitrophenylbenzenesulfonates with Nucleophilic Reagents [1]</td>
<td>264</td>
</tr>
<tr>
<td>- R. V. Vizgert, S. M. Kononenko, and I. M. Ostrovskaya</td>
<td>264</td>
</tr>
<tr>
<td>Aromatic Sulfonimides. IV. Oxidation and Reduction of Derivatives of Benzenesulfonimide</td>
<td>270</td>
</tr>
<tr>
<td>- N. N. Dykhanyov and A. I. Roobchenko</td>
<td>270</td>
</tr>
<tr>
<td>Chlorination and Bromination of Alkyl-m-cresols and Alkyl-p-cresols</td>
<td>272</td>
</tr>
<tr>
<td>- I. A. Romadan and E. A. Kochetkov</td>
<td>272</td>
</tr>
<tr>
<td>Radical Reactions of Perylenehones. IV. Thermal Decomposition of Diphenyl Perosyldicarbonate in Benzene Solvents — G. A. Raturava, L. M. Terman, and D. M. Yanovskiy</td>
<td>274</td>
</tr>
<tr>
<td>Adamantane and its Derivatives. V. Synthesis of Tri-substituted Derivatives of Adamantane — F. N. Stepanov, V. V. Baklan, and S. D. Isaev</td>
<td>280</td>
</tr>
<tr>
<td>Synthesis of Aromatic Substances from Alkylphenols. VII. The Anomalous Alkylation of Phenol with 2-Ethylhex-1-one in the Presence of Aluminum</td>
<td>283</td>
</tr>
<tr>
<td>- A. S. Podberezina and L. A. Khel'fit</td>
<td>283</td>
</tr>
<tr>
<td>Alkylation of Aminophenols. II. Synthesis of 4-Amino-2,6-diisopropylphenol</td>
<td>286</td>
</tr>
<tr>
<td>- S. I. Burmistrov and N. P. Smolyakova</td>
<td>286</td>
</tr>
<tr>
<td>The Reaction of Aldehydes with Olefins. II. Reaction of Chlorocetylbromide with Polyelectrolyte Dyes from Homocyclic 2-Methylthionaphthenothiazoles. III. Mono-, Dimero-, and Rhodacyanine Dyes Derived from 3-Methyl-4,5'-2',3'-thionaphthenothiazoles — Z. I. Mitroshchikov and M. A. Alperovich</td>
<td>289</td>
</tr>
<tr>
<td>Studies of the Structure of Chemical Compounds from Their Nuclear Magnetic Resonance Spectra. XVII. The Structure of Some Derivatives of Bicyclo[2,2,1]heptane</td>
<td>294</td>
</tr>
<tr>
<td>- V. F. Byurov, A. U. Stepaniants, and V. A. Mironov</td>
<td>294</td>
</tr>
<tr>
<td>Synthesis of 1,4-Di-(alkenyl)-benzenes and Their Oxides — N. V. Melya and A. F. Nikolaev</td>
<td>296</td>
</tr>
<tr>
<td>Derivatives of Sulfurous Dilmide. I. — E. S. Levchenko and A. V. Kirsanov</td>
<td>300</td>
</tr>
<tr>
<td>Derivatives of Sulfurous Dilmide. II. — E. S. Levchenko and Ya. G. Bal'yon</td>
<td>305</td>
</tr>
<tr>
<td>Schiff's Base—Derivatives of N,N-Diethyl-1-phenylendiamine. II. — R. B. Zhukin, V. N. Irina, and D. I. Ul'yanova</td>
<td>311</td>
</tr>
<tr>
<td>An Investigation of 1,5-Diaryl-3-carylsulfurylformazanes — M. O. Losinskii, S. N. Sanova, and P. S. Pol'zdv</td>
<td>314</td>
</tr>
<tr>
<td>Reaction oC Catechol and Protocatechuic Alcohol with Diethanolamine in the Presence of Silver Oxide — M. N. Vasil'eva and A. Ya. Berlin</td>
<td>318</td>
</tr>
<tr>
<td>Alkylation of Amisophenols. I. Synthesis of 4-Amino-2,6-diisopropylphenol</td>
<td>321</td>
</tr>
<tr>
<td>- S. I. Burmistrov and L. G. Romanovskaya</td>
<td>321</td>
</tr>
<tr>
<td>Preparation of Some Unsaturated Aliphatic-Aromatic Aldehydes by the Reduction of 1,4-Diarylbenzenes and Their Oxides — N. O. Pastushak and A. V. Dombrovskii</td>
<td>323</td>
</tr>
<tr>
<td>The Alkylation of Phenol and Phenol Ether. II. Alkylation of Guaiacol Ether in the Presence of Copper — G. O. Mel'yanovskaya</td>
<td>325</td>
</tr>
<tr>
<td>The Reaction of Di-(2-hydroxynaphthal-1-yl)-methane with Epichlorhydrin</td>
<td>334</td>
</tr>
<tr>
<td>- N. K. Moshchinskaya and V. M. Vasil'etskiy</td>
<td>334</td>
</tr>
<tr>
<td>Studies in the Field of Rhodamine Dyes and Compounds Related to Them. XII. Diacetyl Derivatives of Rhodamine and Rhodol; the Structure of the Colorless Forms of Fluorane Dyes — L. S. LeFe and V. F. Otten</td>
<td>336</td>
</tr>
</tbody>
</table>

Available from Consultants Bureau
CONTENTS (continued)

Studies in the Field of Rhodamine Dyes and Compounds Related to Them.
XIII. The Structure of the Colored Forms of Rhodamine and Rhodol
  L. S. Ioffe and V. F. Otten ........................................... 330

Studies in the Field of Rhodamine Dyes and Compounds Related to Them.
XIV. Interconversion of the Colorless and Colored Forms of Rhodamine and Rhodol
  L. S. Ioffe and V. F. Otten ........................................... 333

New Synthesis of 1,4-Distyrylbenzene—L. V. Shubina and L. Ya. Malkes.... 337

Polysynthetic Penicillins. I. Condensation of 6-Aminopenicillanic Acid with
  Azlactones and Compounds with an Ethenoxymethylene Function:
  G. A. Maslova and I. T. Strukov ........................................... 339

Cyanine Dyes with a Furan Ring in the Polymethine Chain. II—A. I. Kiprianov
  and A. A. Shulezhko .................................................. 343

Synthesis of Some Derivatives of 7,8-Dihydroxybenzopyrylum Chloride and
  7,8-Dihydroxycoumarin—M. S. Khalikin, L. G. Fedorina, A. S. Fakhruddinov,
  and V. A. Kukhlin .................................................. 347

Some Reactions of 2,3-Diaminophenazine—Z. P. Penyugaloa, Z. V. Pushkareva,
  L. V. Dunaeva, and E. P. Darientko ................................... 350

Syntheses in the Phenothiazine Series. XVI. Schiff Bases from 10-Methyl-3-aminoophenothiazine
  V. S. Skorodumov and S. V. Zharavlev .................................. 354

Some Derivatives of 10-Methyl-3-aminoophenothiazine—N. A. Kudryavtseva,
  Z. V. Pushkareva, and M. V. Starida .................................. 356

Studies on the Series of Pyranes, Their Analogos and Related Compounds. XI. The
  Application of the Ritter Reaction to Some Heterocyclic Tertiary Alcohols
  V. A. Zagorevskii and K. I. Lopatin .................................... 358

1,3-Dipolar Addition to Unsaturated Compounds. X. Addition of α,N-Diphenylthione to
  Vinyl Acetylene Compounds—V. N. Chisirkletov, L. K. Vagina, and A. A. Petrov.
  ................................................................. 361

Isolation of the Amide of Nicotinic Acid by the Method of Ion Exchange—I. B. Chekmareva,
  E. S. Zhabanovich, T. A. Lushchik, and N. A. Preobrazhenskii..... 366

Studies on the Series of Pyranes, Their Analogos and Related Compounds. XII. Alkylation
  of 4-Methylsulfinilurine—V. A. Zagorevskii and Z. D. Sovzenko........ 370

Studies in the Field of Synthesis and Reactions of the Diaryl Urea Series. XX. The
  Synthesis of N-Chloro Derivatives of Uretane and Guanyl of α-Diketones and
  ortho-Quinones—D. F. Kustpov, D. N. Khokhlov, A. A. Potashnik,
  and V. L. Tushikina .................................................. 374

Studies in the Furane Series. XXXV. Syntheses Based on 3-Methyl-2-bromocetylthiothiane

Protolysis of Substituted Derivatives of 2-Benzyl-3,2-dione and Its Analogos

Studies in the Pyridyl Thiadiazolyl Methane Series. V. Some Reactions of 4-Pyridyl-2'-
  thiadiazolyl Carboline—V. G. Ermoniavina and M. N. Shchukina ........ 384

LETTER TO THE EDITOR

The Structure of the Condensation Products of Lac tones with Carboxyl Compounds
V. F. Bystrov, V. P. Letina, V. M. Dashiunia, and V. N. Belov ........ 389

The Russian date "Podpisano k pechati" of this issue was 1/26/1965. This is equivalent to "approved
for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably
soon thereafter.

Available From Consultants Bureau
CONTENTS

Conversion of Sodium Chromate into Dichromate by Means of Ammonia and Carbon Dioxide at Atmospheric Pressure—E. N. Pinaevskaya, N. L. Anoshin, and L. A. Neganova ............................................. 2523 2553

Investigation of a Process for Purification of Mercury—V. N. Chernyaev, L. G. Poveshkaya, and Yu. S. Shashurin ........................................... 2558 2587

Separation of Vanadium and Uranium in H₂SO₄—HF Solutions by Means of the Anion Exchangers AV-7, EZF-10P, and AN-2F—V. S. Pakholkov and S. E. Stmalov ........................................... 2582 2565

Present State and Prospects of Development of Nitrogen Fertilizer Production—T. I. Kil'man .......................................................... 2540 2569

High-Temperature Welding of Mineral Materials—K. É. Goryainov and L. N. Potukh .......................................................... 2545 2575

Infrared Transmission Spectra of Cement Clinker Minerals and of Some of Their Hydration Products—G. N. Kuznetsova, N. F. Fedorov, and A. M. Shvyakov ........................................... 2553 2585

Improvement of the Gas Tightness and Chemical Stability of Graphite Products—V. V. Karataev, L. V. Mel'tnikova, and M. F. Reifman ........................................................................ 2558 2590

Density of Concentrated NaOH Solutions (Over 45% by Weight) at Temperatures up to 409°—B. S. Krumgal'z and V. P. Mashovets ........................................... 2563 2596

Investigation of the Buffer Properties, pH of Cr(OH)₃ Formation, and Electrical Conductivity of Chromium Sulfate Solutions—A. I. Fal'cheva, A. I. Matas'ev, and A. E. Lavlnova ........................................... 2567 2600

Electrolysis in Alkaline Tartrate Solutions—V. P. Gladyshev, G. A. Tember, K. Ya. Geinrika, and A. A. Kozlovskii .......................................................... 2573 2606


Electrodes for Determination of the Limiting Current During the Electrodeposition of Iron—N. I. Mikhailov and N. T. Kudryavtsev ........................................... 2585 2615


(Continued)
CONTENTS (continued)

Synthesis of Alkali-Metal Metatitanates Under Vacuum—S. A. Kurodin and A. I. Vulikh .... 2708 2748
Density of Sodium Carbonate Solutions—D. M. Ginzburg, N. S. Pikulina, and V. P. Litvin .... 2710 2749
Vapor Pressure of NaOH Solutions (of Over 45% Concentration) at Temperatures up to 400°— 2712 2750
—B. S. Knungail's and V. P. Mashovers ............................................. 2712 2750
Incombustible Components of Liquid Burnish Gold—P. A. Levin and S. G. Tumanov .... 2714 2753
Infrared Absorption Spectra of Baltic Amber—S. S. Savlevich and I. A. Shala .... 2717 2755
Extraction of Metals from Dilute Solutions by Means of Columns Containing Hydroxyapatite—S. A. Kibardin ............................................. 2720 2757
Film Former Based on Polyorganosiloxane Modified by Organosilicon Polyesters— 2722 2758
—V. P. Lyutyi and N. P. Kharitonov .................................................... 2722 2758
Chemical Modification of Cellulose Fabrics by Isoyanates—A. I. Volostin, O. P. Kon'mina, 2725 2761
and S. N. Danilov ........................................................................ 2725 2761
Preparation of 5-Hydroxytryptamine (Serotonin) from the Bark of Hippophae rhamnoides— 2727 2763
—M. F. Petrova, P. S. Krasu, and G. P. Men'šikov .................... 2727 2763
The Melting Point of Monomethylamino Hydrochloride—T. M. Putvinskaya, 2729 2764
M. M. Dymchenko, and A. M. Starodubtsev ........................................ 2729 2764
Characteristics of Oxygen Compounds In Light Pyrolysis Oil—G. S. Shor, Ya. B. Cherlinov, 2731 2766
and G. S. Gol'din ................................................................. 2731 2766
Preparation of Phthalic Anhydride by Oxidation of Petroleum Tetralin—A. Sharipov, 2734 2768
B. Golovanenko, and N. Ivanova ...................................................... 2734 2768
Hydrocarbon Composition of the Essential Oil of Rhododendron dauricum L. 2740 2772
—G. V. Pigulevskii and N. V. Belova .................................................. 2740 2772
Author Index, Vol. 37, 1964 .................................................................... 2747
Tables of Contents, Vol. 37, 1964 .......................................................... 2754

The Russian date "Podpisano k pechaty" of this issue was 11/30/1964. This is equivalent to "approved
for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably
soon thereafter.

Publisher

Available From Consultants Bureau

- 152 -
# CONTENTS (continued)

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Anodic Behavior of Copper in Pyrophosphate Electrolytes</td>
<td>V. V. Gurylev and A. I. Levin</td>
<td>2591</td>
</tr>
<tr>
<td>Corrosion Under the Conditions of Ammonium Nitrate Production</td>
<td>Ya. I. Kliman and D. S. Eismann</td>
<td>2596</td>
</tr>
<tr>
<td>(without Evaporation)</td>
<td></td>
<td>2601</td>
</tr>
<tr>
<td>Organic Inhibitors of Lead Corrosion in Soft Water</td>
<td>A. K. Myaglova and I. N. Putlova</td>
<td>2605</td>
</tr>
<tr>
<td>Phase Equilibrium in Certain Aqueous Monomer-Polymer Systems</td>
<td>A. N. Gudkov, N. A. Fomina, and N. I. Smirnov</td>
<td>2609</td>
</tr>
<tr>
<td>Distillation and Rectification in the System Water-Formic Acid</td>
<td>I. N. Bushman and P. Ya. Molodenko</td>
<td>2640</td>
</tr>
<tr>
<td>Use of Continuous Reactors for Studying Chemical Process Kinetics</td>
<td>K. Khartmann and B. V. Passet</td>
<td>2658</td>
</tr>
<tr>
<td>Study of the Motion of a Disperse Phase in a Pulsed Packed Column</td>
<td>S. M. Karpachev, E. I. Zherdev, and L. F. Kiseleva</td>
<td>2662</td>
</tr>
<tr>
<td>Hydrodynamics of Grid Plates</td>
<td>V. V. Kafarov and Yu. G. Zelinski</td>
<td>2666</td>
</tr>
<tr>
<td>Thermal Stability and Catalytic Activity of the Sulfonated Phenol</td>
<td>G. N. Polyanskii and P. E. Tulupov</td>
<td>2670</td>
</tr>
<tr>
<td>Kinetics of Oxidation of Hydrocarbons to Alcohols in Presence of Boric Acid</td>
<td>V. M. Pedayas</td>
<td>2674</td>
</tr>
<tr>
<td>Comparative Investigation of the Vulcanization Activities of Sulfonamide and Bisulfonamide Derivatives of Benzothiazole</td>
<td>M. S. Fel'dstein, M. V. Gorelik, I. G. Beskina, and T. P. Kononova</td>
<td>2678</td>
</tr>
<tr>
<td>Synthesis of Cellulose Acetate Acetoacetate</td>
<td>G. N. Khovanskaya, L. V. Ivanikova, and G. O. Radchenko</td>
<td>2692</td>
</tr>
<tr>
<td>Method for Preparation of Vinyl Esters with the Use of Calcium Carbide</td>
<td>A. S. Aitina and A. A. Trofimov</td>
<td>2696</td>
</tr>
<tr>
<td>Dissociation Constants of the Free Leuco Compounds of Certain Vat Dyes</td>
<td>Ya. S. Khamshto, G. N. Romanova, and V. G. Abrosim</td>
<td>2700</td>
</tr>
<tr>
<td>Influence of Aliphatic Alcohols on Hydrogen Absorption by Steel</td>
<td>S. M. Beloglazov</td>
<td>2704</td>
</tr>
<tr>
<td>Composition and Structure of a Xylouranide Obtained by Alkaline Starch</td>
<td>V. I. Stashkov, N. I. Kulina, and Yu. P. Solov'eva</td>
<td>2708</td>
</tr>
<tr>
<td>Hydrolytic Hydrogenation of Cotton Celulose</td>
<td>N. A. Vasyunina, A. A. Balandin, G. S. Barysheva, S. V. Chepego, and Yu. L. Pogonov</td>
<td>2712</td>
</tr>
<tr>
<td>Synthesis of Substituted Dihydric Phenols</td>
<td>V. I. Isagulyants, V. N. Taskova, G. I. Bolotova, L. newborn, and L. N. Kurzhenko</td>
<td>2716</td>
</tr>
<tr>
<td>Possibility of Preparing Novolak Resins from Anisole and Formaldehyde and of Sulfonated Ion Exchangers from Them</td>
<td>A. A. Vasil'ev and T. V. Gerasimyuk</td>
<td>2720</td>
</tr>
<tr>
<td>Preparation of Pure Dichloroacetaldehyde</td>
<td>A. P. Antykov</td>
<td>2724</td>
</tr>
</tbody>
</table>

**BRIEF COMMUNICATIONS**

<table>
<thead>
<tr>
<th>Title</th>
<th>Author(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Removal of Microamounts of Calcium from Alkalies by Means of Oxidized Carbon</td>
<td>P. V. Gorbunov, L. A. Tsarskolaya, and M. I. Otevinskii</td>
<td>2708</td>
</tr>
<tr>
<td>Infrared Spectroscopic Study of the Products of Chemical Interaction of Aluminum Ions with Polyacrylic Acid</td>
<td>G. N. Kuznetsova, M. F. Smirnova, A. P. Dutina, and A. M. Shnyakov</td>
<td>2712</td>
</tr>
</tbody>
</table>

Available From Consultants Bureau

- 153 -
CONTENTS

Investigation of the Hydrothermal Conversion of Phosphates from Various Sources - S. I. Vol'frovich, A. A. Ionass, R. E. Remen, L. N. Sidel'kovskii, and V. N. Shevelev .......................... 1 3

Influence of Certain Factors on Crystallization of Synthetic Sodium Zeolite Type A - P. P. Budnikov and I. M. Petrovykh .......................... 8 10


Solubility on the System NH₄H₂PO₄ - NH₄NO₃ - CO(NH₂)₂ - H₂O - M. E. Pozin, B. A. Kopylev, and N. K. Shilling .......................... 19 22

Oxidation of UO₂ by Ozonized Oxygen in Sulfuric Acid Solution - G. M. Nesmeyanova and A. I. Vikulov .......................... 24 28

Kinetics of Roasting of Flotation Pyrite in a Fluidized Bed - N. Sh. Safinlin .......................... 29 34

Separation of Thorium and Uranium (VI) by Means of KU-1 Resin - A. I. Zhukov, E. I. Kazantsev, and V. A. Vakulenko .......................... 38 43

Synthesis and Chemical Properties of Artificial Alumina-Silica Gels - M. F. Smirnova, A. P. Dushina, and V. B. Aleskovskii .......................... 43 47

Sorption Properties of Artificial Alumina-Silica Gels - M. F. Smirnova, A. P. Dushina, and V. B. Aleskovskii .......................... 47 51

Densities and Vapor Pressures of Sodium - Potassium Carbonate Solutions - D. M. Ginzburg .......................... 50 55


Investigation of the Simultaneous Discharge of Ni²⁺ and Zn²⁺ Ions in Sulfate Solutions - B. P. Yur'ev and L. V. Volkov .......................... 61 66

Pickling of Titanium in Sulfuric Acid Solutions - N. A. Marchenko and I. N. Gladskii .......................... 66 72

Theory of Electrolysis of Alkali Metal Chloride Solutions in Cells with Filtering (Separating) Diaphragms - A. L. Rotinyan, V. L. Kheifets, and P. B. Zhivotinskii .......................... 71 78

Corrosion Rate of Steel-3 in Relation to the Temperature of Lithium Fluorides - R. A. Parimonova and S. A. Bailezina .......................... 76 84

(Continued)
## CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrochemical Behavior of Calcium Impurities at a Mercury Cathode</td>
<td></td>
</tr>
<tr>
<td>during Electrolysis of Chloride Solutions — V. G. Prikhodchenko, E. V. Leonovitch, and O. K. Kudra</td>
<td>80</td>
</tr>
<tr>
<td>Specific Heat of Sodium Aluminate Solutions in the 25−90°C Temperature Range</td>
<td>85</td>
</tr>
<tr>
<td>— G. Z. Mat'iev and V. P. Mashovets</td>
<td></td>
</tr>
<tr>
<td>Relation between the Specific Gravity and Ionic Composition of Ion Exchange Resins — A. I. Vulikh and V. L. Bogatyrev</td>
<td>91</td>
</tr>
<tr>
<td>Kinetics of Absorption Accompanied by a Reaction of the Second Order — M. Kh. Kishinevskii</td>
<td>95</td>
</tr>
<tr>
<td>Hydrodynamics of Granular Materials in Sodium Carbonate Production in Fluidized Beds — I. P. Iasikin and E. S. Dabid [1]</td>
<td>99</td>
</tr>
<tr>
<td>Capacity Changes of the Hydroxyl Form of the Strongly Basic Anion Exchanger AV-17 When Heated in Water and Aqueous Methanol Solutions — N. G. Polyanskii and M. A. Shaburov</td>
<td>105</td>
</tr>
<tr>
<td>Liquid−Vapor Equilibria in Ternary and Quaternary Systems Consisting of C₂ Hydrocarbons and Separating Agents — G. V. Barova, V. B. Kogan, and M. S. Nemtsov</td>
<td>111</td>
</tr>
<tr>
<td>Relation between Solubility and Efficiency of Separating Agents Used in Extractive Rectification — V. B. Kogan, G. V. Barova, and M. S. Nemtsov</td>
<td>118</td>
</tr>
<tr>
<td>Theory of Mass Transfer in Drops of Small Diameter in Contact with a Gas of Constant Concentration — I. G. Plit</td>
<td>125</td>
</tr>
<tr>
<td>Determination of Phase Contact Area on Sieve Plates — A. I. Rodionov, A. M. Kashnikov, and V. M. Radkovich</td>
<td>133</td>
</tr>
<tr>
<td>Ore−Contact Gasification — V. V. Patrikeev, A. A. Balandin, S. I. Mitrofanov, and K. I. Oriola</td>
<td>137</td>
</tr>
<tr>
<td>Crystalline Derivatives of α-Chlorocarboxylic and α-Aminocarboxylic Acids — F. K. Velichko, N. A. Kuz'mina, and L. D. Ermolaeva</td>
<td>142</td>
</tr>
<tr>
<td>Preparation and Conversion of Dimethyl-(4-Isopropylphenyl)Carbinol Hydroperoxide — V. V. Fedorova, T. P. Potapova, and B. D. Krushalov</td>
<td>154</td>
</tr>
<tr>
<td>Hydrolysis Kinetics of Xylos — M. S. Dudkin, N. G. Shkantova, and G. V. Tatarkina</td>
<td>164</td>
</tr>
<tr>
<td>BRIEF COMMUNICATIONS</td>
<td></td>
</tr>
<tr>
<td>Removal of Lead from TiO₂ by Isomorphous Crystallization of Strontium and Lead Sulfates from Industrial Solutions — A. A. Salin and Yu. D. Dolmatov</td>
<td>169</td>
</tr>
<tr>
<td>Conductometric Titration of KU-1 and KU-2 Ion Exchange Resins — Z. P. Yakusheva</td>
<td>171</td>
</tr>
<tr>
<td>Density of Sodium Aluminate Solutions at Temperatures from 25 to 90°C — N. M. Baron, T. A. Barasova, and R. P. Narveeva</td>
<td>175</td>
</tr>
<tr>
<td>Investigation of the Thermodynamic Properties of the Ternary Metallic System Bismuth−Copper−Antimony Along the Line N₁₂ : N₄ = 1 by the Electromotive Force Method — A. L. Lomov and A. N. Krestovnikov</td>
<td>179</td>
</tr>
<tr>
<td>Chemical Selection of Columbized Pyrochlore and Apatite in Beneficiation of Rare-Metal Placer Deposits — A. S. Chernyak and E. M. Espanont</td>
<td>184</td>
</tr>
<tr>
<td>Electrolytic Siliciding of Molybdenum from Salt Melts — E. N. Shchetnikov, G. I. Bel'yasova, N. G. Lyushchenko, and I. L. Shchetnikova</td>
<td>190</td>
</tr>
<tr>
<td>Relation between Current Efficiency and Current Density in Electrolytic Deposition of Metals — B. P. Yur'ev</td>
<td>194</td>
</tr>
</tbody>
</table>

\[\text{Available From Consultants Bureau}\]

- 155 -

\[\text{Continued}\]
### CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chlorination of Hexachlorocyclopentadiene</td>
<td>L. M. Kogan and N. M. Burmakin</td>
<td>200-207</td>
</tr>
<tr>
<td>2-Phenylamino-1,4-Naphthoquinones Containing Fluorine</td>
<td>I. Kh. Vinograd, S. M. Shein, A. P. Cherepivskaya, and G. V. Shalimova</td>
<td>202-208</td>
</tr>
<tr>
<td>Preparation and Properties of Certain Polychloro Derivatives of Trimethylchlorosilane and Trimethylethoxysilane</td>
<td>G. V. Motsarev and V. R. Rozenberg</td>
<td>206-211</td>
</tr>
<tr>
<td>Reduction of Thujones by Aluminum Isopropylate (Meerwein-Ponnord Reduction)</td>
<td>M. I. Goryaev and Zh. K. Gimaddinov</td>
<td>209-213</td>
</tr>
<tr>
<td>Synthesis of Ethylene Glycol Diethyl Ether</td>
<td>N. I. Kutsenko, L. K. Filippenko, Z. A. Kravchenko, and M. A. Baranova</td>
<td>211-214</td>
</tr>
<tr>
<td>Technology of the Reaction of Acetone with Aniline</td>
<td>B. A. Lugovik, L. G. Yudin, and A. N. Kost</td>
<td>214-216</td>
</tr>
<tr>
<td>Preparation of β-Pyridinecarboxylic (Nicotinic) Acid</td>
<td>I. B. Chekmareva, E. S. Zhdanovich, and N. A. Preobrazhenskii</td>
<td>218-220</td>
</tr>
<tr>
<td>Homogeneity of Xylans in Grain Surface Layers</td>
<td>M. S. Dudkin, E. I. Medvedeva, and I. S. Kazanskaya</td>
<td>220-221</td>
</tr>
<tr>
<td>Paper Chromatography of Colchicium Alkaloids</td>
<td>A. S. Sadykov and M. K. Yusupov</td>
<td>222-222</td>
</tr>
<tr>
<td>Scoparone in the Resin from the Roots of Ferula oopoda Boiss</td>
<td>N. P. Kir'yalov and S. V. Sorokerov</td>
<td>225-228</td>
</tr>
<tr>
<td>Adsorption of Furfural from Aqueous Solutions on Active Carbons</td>
<td>Yu. N. Khok'kin and A. I. Karpuevova</td>
<td>227-228</td>
</tr>
<tr>
<td>BOOK REVIEW</td>
<td>Chemical Literature and Its Use - Reviewed by I. G. Filatov</td>
<td>231-231</td>
</tr>
</tbody>
</table>

The Russian date "Podpisano k pechat" of this issue was 1/7/65. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher
 Concerning Fluctuations in a Nonequilibrium Magnetoactive Plasma. A. G. Sitenko and V. N. Radzievskii ............................ (T) 903
 Interaction of Circularly Polarized Waves in a Cold Plasma. N. P. Glorgadze ............................ (T) 912
 Diffusion Theory of a Beam-Generated Plasma. S. M. Levitskii and I. P. Shashurin ............................ (T/E) 915
 Concerning the Structure of Asymmetric Toroidal Magnetic Fields. M. I. Grmiev, M. S. Mikhailova, and A. I. Morozov ............................ (T) 920
 Determination of Some Parameters of an Electron-Ion Oscillatory Discharge. M. I. Korsunakii and E. N. Gorbenko ............................................ (T/E) 923
 Nanosecond Time Development of a Pulsed Discharge at a Dielectric-Vacuum Interface. S. P. Bugaev and G. A. Mesyats ............................ (E) 930
 A High-Pressure Electrodeless Discharge. I. R. V. Mitin and K. K. Pryadkin ............................ (E) 933
 Pulsed Heating of a High-Pressure Arc in Argon. I. R. V. Mitin, Yu. R. Kayzhev, V. L. Petrenko, and E. S. Borovik ............................ (E) 937
 Pulsed Heating of a High-Pressure Arc in Argon. II. R. V. Mitin, Yu. R. Kayzhev, V. L. Petrenko, and E. S. Borovik ............................ (E/T) 943
 Mechanism of Corona-to-Spark Transition in Long Air Gaps. G. N. Aleksandrov ............................ (T/E) 945
 Energy Release in a High-Current Vacuum Discharge. B. A. Osadin ............................ (E) 952
 Effect of Pre-Ionization of a Gas on Energy Redistribution in a Spark Discharge. G. M. Mechecheryakov ............................ (E/T) 957
 Investigation of a Titanium Plasma Source. E. D. Andryukhina and L. S. Shpigel' ............................ (E) 963
 An Investigation of Electron Loss from Traps with Spatially Periodic Helical Magnetic Fields. R. A. Demirkhanov, Yu. V. Kursanov, D. G. Baratov, and G. V. Kharin ............................ (E) 968
 Triggering Mechanism of a High-Vacuum Discharge in Crossed Electric and Magnetic Fields. E. M. Reikhruedel' and E. P. Sheretov ............................ (E/T) 972
 Radial Distribution of Electrical Conductivity in an Ionized Gas Jet. S. M. Pavlov and S. A. Shevchenko ............................ (T/E) 978
 Some Properties of an Oscillatory Electron-Ion Discharge. M. I. Korsunakii and E. N. Gorbenko ............................ (E) 981
 Investigation of Hybrid Waves in a Circular Waveguide Partially Filled with Dielectric. V. A. Vagin and V. I. Kotov ............................ (T/E) 987
 A Resonance Particle Counter. G. L. Suchkin ............................ (T) 992
 Triangular Resonator for Coherent Light Sources. A. E. Yomovich ............................ (T) 996
 Formation of a Spark Channel in Air. S. I. Andreev and B. M. Sokolov ............................ (E) 1003
 Emission Properties of the Plasma of Vacuum Sparks. L. Ion Beams. K. V. Suladze and A. A. Plyutto ............................ (E) 1006

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- 157 -
# CONTENTS

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intrinsic Thermionic Emission of Lanthanum Hexaboride and Surface Ionization of Cesium Atoms on Lanthanum Hexaboride</td>
<td>É. Ya. Zandber and V. L. Paleev</td>
<td>(E) 1014</td>
<td>1308</td>
</tr>
<tr>
<td>Sorption of Argon Ions by Titanium Films. G. P. Pranovskii and T. D. Radzhabov</td>
<td></td>
<td>(E) 1017</td>
<td>1312</td>
</tr>
<tr>
<td>Experimental Investigation of Mechanical Excitation of Phosphorus Suspensions in Solid Dielectrics. O. A. Myazdrikov, O. S. Nikolaev, B. N. Pustoshkin, and V. M. Trofimov</td>
<td></td>
<td>(E) 1022</td>
<td>1319</td>
</tr>
<tr>
<td>Sorption of Argon Ions by Titanium Films. G. P. Pranovskii and T. D. Radzhabov</td>
<td></td>
<td>(E) 1017</td>
<td>1312</td>
</tr>
<tr>
<td>Study of Plasma Motion in a Radiation Accelerator by uhf Methods. L. R. Gekker and G. S. Luk'yanchikov</td>
<td></td>
<td>(E) 1026</td>
<td>1323</td>
</tr>
<tr>
<td>Plasmoid Formation in Pulsed Accelerators. B. A. Osadin.</td>
<td></td>
<td>(E) 1029</td>
<td>1327</td>
</tr>
<tr>
<td>Angular Regularities in the Scattering of H₂ERT Gas Ions Through Small Angles.</td>
<td>E. S. Mashkova and V. A. Molchanov</td>
<td>(E) 1024</td>
<td>1321</td>
</tr>
<tr>
<td>Study of Plasma Motion in a Radiation Accelerator by uhf Methods. L. R. Gekker and G. S. Luk'yanchikov</td>
<td></td>
<td>(E) 1026</td>
<td>1323</td>
</tr>
<tr>
<td>Plasmoid Formation in Pulsed Accelerators. B. A. Osadin.</td>
<td></td>
<td>(E) 1029</td>
<td>1327</td>
</tr>
<tr>
<td>BRIEF COMMUNICATIONS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Angular Regularities in the Scattering of H₂ERT Gas Ions Through Small Angles.</td>
<td>E. S. Mashkova and V. A. Molchanov</td>
<td>(E) 1024</td>
<td>1321</td>
</tr>
<tr>
<td>Study of Plasma Motion in a Radiation Accelerator by uhf Methods. L. R. Gekker and G. S. Luk'yanchikov</td>
<td></td>
<td>(E) 1026</td>
<td>1323</td>
</tr>
<tr>
<td>Plasmoid Formation in Pulsed Accelerators. B. A. Osadin.</td>
<td></td>
<td>(E) 1029</td>
<td>1327</td>
</tr>
<tr>
<td>LETTERS TO THE EDITOR</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small Postdischarge Emission as an Indicator of the Surface State of Electrodes in Experiments on Vacuum Breakdown. P. N. Chistyakov and N. V. Tatarikova</td>
<td></td>
<td>(E) 1035</td>
<td>1333</td>
</tr>
</tbody>
</table>

Available From American Institute of Physics
INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abadie, J.</td>
<td>46</td>
</tr>
<tr>
<td>Abarenko, A. N.</td>
<td>48</td>
</tr>
<tr>
<td>Acaty, T.</td>
<td>56</td>
</tr>
<tr>
<td>Achard, Jean-Claude</td>
<td>47</td>
</tr>
<tr>
<td>Adamski, Pawel</td>
<td>18</td>
</tr>
<tr>
<td>Adasinskiy, S. A.</td>
<td>55</td>
</tr>
<tr>
<td>Adushkin, V. V.</td>
<td>73</td>
</tr>
<tr>
<td>Akhmedov, R. B.</td>
<td>53</td>
</tr>
<tr>
<td>Akos, Balassa</td>
<td>13</td>
</tr>
<tr>
<td>Akusov, E. P.</td>
<td>45</td>
</tr>
<tr>
<td>Akulinichev, I. T.</td>
<td>33</td>
</tr>
<tr>
<td>Albrecht, J.</td>
<td>66</td>
</tr>
<tr>
<td>Aleksandrov, V. Ya.</td>
<td>37</td>
</tr>
<tr>
<td>Aleksandrov, Yu. N.</td>
<td>49</td>
</tr>
<tr>
<td>Aleksenko, I. I.</td>
<td>73</td>
</tr>
<tr>
<td>Alekseyev, K. B.</td>
<td>44</td>
</tr>
<tr>
<td>Alekseyev, N. I.</td>
<td>33</td>
</tr>
<tr>
<td>Alexandrov, L. N.</td>
<td>60</td>
</tr>
<tr>
<td>Alf'orov, Zh. I.</td>
<td>51</td>
</tr>
<tr>
<td>Alia, Ramiz</td>
<td>19</td>
</tr>
<tr>
<td>Alimarin, I. P.</td>
<td>41</td>
</tr>
<tr>
<td>Aliyev, F.</td>
<td>7</td>
</tr>
<tr>
<td>Al'shits, I.</td>
<td>58</td>
</tr>
<tr>
<td>Ambartsumyan, S. A.</td>
<td>70</td>
</tr>
<tr>
<td>Amerio, Luigi</td>
<td>66</td>
</tr>
<tr>
<td>Amilpress</td>
<td>23</td>
</tr>
<tr>
<td>Amin, Samir</td>
<td>22</td>
</tr>
<tr>
<td>Amirnova, S. A.</td>
<td>58</td>
</tr>
<tr>
<td>Andra, L.</td>
<td>56</td>
</tr>
<tr>
<td>Andreyev, K.</td>
<td>54</td>
</tr>
<tr>
<td>Andreyev, V.</td>
<td>10</td>
</tr>
<tr>
<td>Andryanov, Yu. Ye.</td>
<td>73</td>
</tr>
<tr>
<td>Andriyenko, N. N.</td>
<td>3</td>
</tr>
<tr>
<td>Anisimov, G.</td>
<td>7</td>
</tr>
<tr>
<td>Anokhin, M. I.</td>
<td>36</td>
</tr>
<tr>
<td>Anton, Michal</td>
<td>35</td>
</tr>
<tr>
<td>Antonov, A.</td>
<td>5</td>
</tr>
<tr>
<td>Antonovskiy, V. I.</td>
<td>55</td>
</tr>
<tr>
<td>Antov, Petur</td>
<td>60</td>
</tr>
<tr>
<td>Antropov, L.</td>
<td>73</td>
</tr>
<tr>
<td>Arcos, Miguel Angel</td>
<td>32</td>
</tr>
<tr>
<td>Arelyeva, A. M.</td>
<td>37</td>
</tr>
<tr>
<td>Arrighi, Gabriel</td>
<td>23</td>
</tr>
<tr>
<td>Artsimovich, L. A.</td>
<td>67, 73</td>
</tr>
<tr>
<td>Atan, A. H. N.</td>
<td>43</td>
</tr>
<tr>
<td>Attali, C.</td>
<td>57</td>
</tr>
<tr>
<td>Avdeyenko, A. I.</td>
<td>74</td>
</tr>
<tr>
<td>Name</td>
<td>Page</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Bijl, C. L.</td>
<td>61</td>
</tr>
<tr>
<td>Bin, V.</td>
<td>60</td>
</tr>
<tr>
<td>Blyumshteyn, Z. G.</td>
<td>56</td>
</tr>
<tr>
<td>Bocher, E.</td>
<td>50</td>
</tr>
<tr>
<td>Bodenstedt, Erwin</td>
<td>47</td>
</tr>
<tr>
<td>Bodner, V. A.</td>
<td>34, 44</td>
</tr>
<tr>
<td>Bogaardt, M.</td>
<td>56</td>
</tr>
<tr>
<td>Bogdanov, V. V.</td>
<td>33</td>
</tr>
<tr>
<td>Bogoroditsky, Nikolai</td>
<td>12</td>
</tr>
<tr>
<td>Bolgarskiy, A. V.</td>
<td>55</td>
</tr>
<tr>
<td>Bonse, U.</td>
<td>74, 75</td>
</tr>
<tr>
<td>Boreskov, G. K.</td>
<td>40</td>
</tr>
<tr>
<td>Borisov, V. P.</td>
<td>72</td>
</tr>
<tr>
<td>Bornazyan, A. S.</td>
<td>41</td>
</tr>
<tr>
<td>Boroday, K.</td>
<td>9</td>
</tr>
<tr>
<td>Borodulin, A. I.</td>
<td>60</td>
</tr>
<tr>
<td>Boronov, O.</td>
<td>9</td>
</tr>
<tr>
<td>Borovikov, A. M.</td>
<td>46</td>
</tr>
<tr>
<td>Bortolani, Fausto Maria</td>
<td>22</td>
</tr>
<tr>
<td>Borzenkova, N. P.</td>
<td>41</td>
</tr>
<tr>
<td>Bozhkov, R. D.</td>
<td>45</td>
</tr>
<tr>
<td>Bragin, A. A.</td>
<td>67</td>
</tr>
<tr>
<td>Branets, V. N.</td>
<td>44</td>
</tr>
<tr>
<td>Bratychuk, M. V.</td>
<td>33</td>
</tr>
<tr>
<td>Bratzler, K.</td>
<td>69</td>
</tr>
<tr>
<td>Bravet, Rogelio Luis</td>
<td>32</td>
</tr>
<tr>
<td>Brdicka, R.</td>
<td>39</td>
</tr>
<tr>
<td>Breger, A. Kh.</td>
<td>67</td>
</tr>
<tr>
<td>Breslav, I. S.</td>
<td>38</td>
</tr>
<tr>
<td>Brylev, G. B.</td>
<td>44</td>
</tr>
<tr>
<td>Bucci, M.</td>
<td>64</td>
</tr>
<tr>
<td>Buchinskiy, I. Ye.</td>
<td>45</td>
</tr>
<tr>
<td>Buck, Hannsjorg</td>
<td>13</td>
</tr>
<tr>
<td>Budyka, A.</td>
<td>6</td>
</tr>
<tr>
<td>Bui, Van Cac</td>
<td>26</td>
</tr>
<tr>
<td>Bukhtamov, R.</td>
<td>1</td>
</tr>
<tr>
<td>Bulgakov, A.</td>
<td>10</td>
</tr>
<tr>
<td>Bulgakov, A. A.</td>
<td>10</td>
</tr>
<tr>
<td>Bulgare, M.</td>
<td>15</td>
</tr>
<tr>
<td>Bullinger,</td>
<td>62</td>
</tr>
<tr>
<td>Bunata, O.</td>
<td>56</td>
</tr>
<tr>
<td>Burakovska, S.</td>
<td>35</td>
</tr>
<tr>
<td>Buravtsev, A. I.</td>
<td>60</td>
</tr>
<tr>
<td>Burget, J.</td>
<td>42</td>
</tr>
<tr>
<td>Burgov, N. A.</td>
<td>69</td>
</tr>
<tr>
<td>Burov, Yu. V.</td>
<td>35</td>
</tr>
<tr>
<td>Buts, V. D.</td>
<td>1</td>
</tr>
<tr>
<td>Buyanovskaya, A. A.</td>
<td>36</td>
</tr>
<tr>
<td>Bykhovskiy, A. I.</td>
<td>37</td>
</tr>
<tr>
<td>Bykovskikh, L.</td>
<td>9</td>
</tr>
<tr>
<td>Byr'ko, V. M.</td>
<td>60</td>
</tr>
</tbody>
</table>

- C -

<table>
<thead>
<tr>
<th>Name</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calleta, Rostislav</td>
<td>42</td>
</tr>
<tr>
<td>Campos, Jose Guerra</td>
<td>32</td>
</tr>
<tr>
<td>Caprara, Massimo</td>
<td>20</td>
</tr>
<tr>
<td>Carcarni, Adil</td>
<td>11</td>
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<td>51</td>
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<td>2</td>
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<td>74</td>
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<td>Nzo, Ekahh-Nghaky</td>
<td>22</td>
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<tr>
<td>Name</td>
<td>Page</td>
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<tr>
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<td>37</td>
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<td>36</td>
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<td>65</td>
</tr>
<tr>
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<td>70, 71</td>
</tr>
<tr>
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<td>2</td>
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<td>51</td>
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<td>73</td>
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<td>54</td>
</tr>
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<td>74</td>
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<td>36</td>
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<td>46</td>
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<td>27</td>
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<td>21</td>
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<td>73</td>
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</tr>
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<td>71</td>
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<td>22</td>
</tr>
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<td>35</td>
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</tr>
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<td>28, 30</td>
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<td>19</td>
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<tr>
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<td>42</td>
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<td>38</td>
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<td>58</td>
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<td>Yemei'yanyov, A.</td>
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<td>25</td>
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<td>42</td>
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<td>Yuan, Lung</td>
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<td>54</td>
</tr>
</tbody>
</table>

**W**

<table>
<thead>
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<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
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<td>47</td>
</tr>
<tr>
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<td>42</td>
</tr>
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<td>64</td>
</tr>
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<td>38</td>
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<td>42</td>
</tr>
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<td>63</td>
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<td>17</td>
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<td>63</td>
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<td>68</td>
</tr>
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<td>66</td>
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<td>74</td>
</tr>
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<td>49</td>
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**Y**

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<td>59</td>
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<td>71</td>
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<td>38</td>
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<td>Yang, Liu-wu</td>
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<td>58</td>
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<td>6</td>
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<td>54</td>
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**Z**

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<th>Name</th>
<th>Page</th>
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<tbody>
<tr>
<td>Zaboronok, G. F.</td>
<td>58</td>
</tr>
<tr>
<td>Zala, Ferenc</td>
<td>13</td>
</tr>
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<td>Zalmanzon, L. A.</td>
<td>71</td>
</tr>
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<td>4</td>
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<td>38</td>
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<td>58</td>
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<td>37</td>
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<td>37</td>
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<td>74</td>
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<td>52</td>
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<td>72</td>
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<td>51</td>
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<td>71</td>
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<td>54, 57</td>
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<td>Name</td>
<td>Page</td>
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<td>36</td>
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<td>38</td>
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</tbody>
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...
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)
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<td>8/1/1965</td>
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