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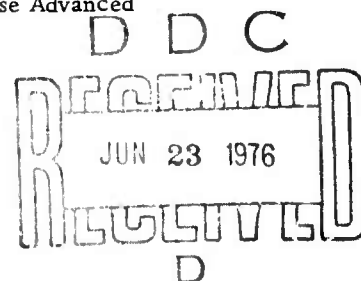
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This is the Soviet Laser Bibliography for the fourth quarter of 1975 and is No. 22 in the series on Soviet laser developments. The coverage includes basic research on solid state, liquid, gas, and chemical lasers; components; nonlinear optics; spectroscopy of laser materials; ultrashort pulse generation; crystal growing; theoretical aspects of advanced lasers; and general laser theory. Laser applications are listed under biological effects; communications; computer technology; holography; laser-induced chemical reactions; instrument-ation and measurements; beam-target interaction; and plasma generation and diagnostics.

Introduction

This bibliography has been compiled by the staff of Informatics Inc. in response to a continuing contractual assignment to monitor current Soviet-bloc developments in the quantum electronics field. Of all material reviewed, the major yield has been from the approximately 30 periodicals which are known to report the most advanced and interesting findings in Soviet laser technology.

The period covered is the fourth quarter of 1975, and includes all significant laser-related articles received by us during that interval. The structure and selection criteria are basically those used in the preceding reports.

For convenience we have abbreviated frequently cited source names: a source abbreviation list is included. Unless indicated by a parenthesized (RZh, KL) notation, all cited sources are available at Informatics Inc. The numbers in parentheses following the authors' names in the text refer to the Cumulative Affiliations List which includes all author affiliations from 1969 to the present.

SOVIET LASER BIBLIOGRAPHY, OCTOBER - DECEMBER 1975

TABLE OF CONTENTS

INTRODUCTION	i
I. BASIC RESEARCH	
A. Solid State Lasers	
1. Crystal: Ruby	1
2. Rare-Earth Activated	
a. Nd ³⁺	1
b. Pr ³⁺	3
c. Er ³⁺	3
d. Yb ³⁺	3
3. Semiconductor: Simple Junction	
a. GaAs	4
b. InSb	4
c. PbSe	4
d. PbTe	5
4. Semiconductor: Mixed Junction	5
5. Semiconductor: Heterojunction	5
6. Semiconductor: Theory	6
7. Glass: Nd	7
8. Glass: Miscellaneous	8
B. Liquid Lasers	
1. Organic Dyes	
a. Rhodamine	8
b. Phthalimide	9
c. Polymethine	10
d. Coumarin	10
e. Miscellaneous Dyes	10
2. Miscellaneous Liquids	13
C. Gas Lasers	
1. Simple Mixtures	
a. He-Ne	13
b. He-Se	16

2.	Molecular Beam and Ion	
a.	CO ₂	16
b.	CO	21
c.	Noble Gas	22
d.	D ₂ O	23
e.	CaH	23
f.	H ₂	23
g.	N ₂	24
h.	Submillimeter	25
i.	Metal Vapor	26
j.	Gasdynamic	28
k.	Miscellaneous Molecular	31
3.	Ring Lasers	32
4.	Theory	33
D.	Chemical Lasers	
1.	F ₂ + H ₂ (D ₂)	36
2.	Photodissociative	37
3.	Miscellaneous	38
E.	Components	
1.	Resonators	
a.	Design and Performance	38
b.	Mode Kinetics	39
2.	Pump Sources	40
3.	Deflectors	41
4.	Filters	42
5.	Mirrors	42
6.	Detectors	42
7.	Modulators	45
F.	Nonlinear Optics	
1.	Frequency Conversion	47
2.	Parametric Processes	50
3.	Stimulated Scattering	
a.	Raman	50
b.	Rayleigh	53
c.	Theory	53

	4.	Acoustic Interaction	53
	5.	Birefringence	55
	6.	General Theory	55
G.		Spectroscopy of Laser Materials	57
H.		Ultrashort Pulse Generation	59
J.		Crystal Growing	60
K.		Theoretical Aspects of Advanced Lasers	60
L.		General Laser Theory	61
II.		LASER APPLICATIONS	
A.		Biological Effects	64
B.		Communications	
	1.	Beam Propagation in the Atmosphere	64
	2.	Beam Propagation in Liquids	87
	3.	Theory of Propagation	87
	4.	Systems	88
C.		Computer Technology	92
D.		Holography	93
E.		Laser-induced Chemical Reactions	98
F.		Instrumentation and Measurement	
	1.	Measurement of Laser Parameters	102
	2.	Miscellaneous Measurement Applications	104
G.		Beam-Target Interaction	
	1.	Metal Targets	113
	2.	Dielectric Targets	116
	3.	Semiconductor Targets	117
	4.	Miscellaneous Studies	118
H.		Plasma Generation and Diagnostics	120

III.	MONOGRAPHS	124
IV.	SOURCE ABBREVIATIONS	130
V.	CUMULATIVE AFFILIATIONS LIST	135
VI.	AUTHOR INDEX	146

I. BASIC RESEARCH

A. SOLID STATE LASERS

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C. GAS LASERS

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g. N_2

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i. Metal Vapor

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F. INSTRUMENTATION AND MEASUREMENT

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IV. SOURCE ABBREVIATIONS

BAPS	-	Bulletin de l'Academie Polonaise des Sciences. Serie des Sciences Techniques
DAN Arm	-	Akademiya nauk Armyanskoy SSR. Dok'ady
DAN Az	-	Akademiya nauk Azerbaydzhanskoy SSR. Doklady
DAN B	-	Akademiya nauk Belorusskoy SSR. Doklady
DAN SSSR	-	Akademiya nauk SSSR. Doklady
DBAN	-	Bulgarska akademiya na naukite. Doklady
EOM	-	Elektr nnaya obrabotka materialov
FAiO	-	Akademiya nauk SSSR. Izvestiya. Fizika atmosfery i okeana
FGiV	-	Fizika gorenija i vzryva
FiKhOM	-	Fizika i khimiya obrabotka materialov
FTP	-	Fizika i tekhnika poluprovodnikov
FTT	-	Fizika tverdogo tela
GiK	-	Geodeziya i kartografiya
IAN B	-	Akademiya nauk Belorusskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
IAN Fiz	-	Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya
IAN Uz	-	Akademiya nauk Uzbekskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh nauk
I-FZh	-	Inzhenerno-fizicheskiy zhurnal
IT	-	Izmeritel'naya tekhnika
IVUZ Fiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Fizika
IVUZ Geod	-	Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka
IVUZ Priboro	-	Izvestiya vysshikh uchebnykh zavedeniy. Priborostroyeniye
IVUZ Radioelektr	-	Izvestiya vysshikh uchebnykh zavedeniy. Radioelektronika

IVUZ Radiofiz	-	Izvestiya vysshikh uchebnykh zavedeniy. Radiofizika
KE	-	Kvantovaya elektronika
KiK	-	Kinetika i kataliz
KL	-	Knizhnaya letopis'
KLDV	-	Knizhnaya letopis'. Dopolnitel'nyy vypusk
Kristal	-	Kristallografiya
LC	-	Received at Library of Congress
MZhiG	-	Akademiya nauk SSSR. Izvestiya. Mekhanika zhidkosti i gaza
NM	-	Akademiya nauk SSSR. Izvestiya. Neorganicheskiye materialy
OiS	-	Optika i spektroskopiya
OMP	-	Optiko-mekhanicheskaya promyshlennost'
Otkr izobr	-	Otkrytiya, izobreneniya, promyshlennyye obraztsy, tovarnyye znaki
PF	-	Postepy fizyki
PTE	-	Pribory i tekhnika eksperimenta
RiE	-	Radiotekhnika i elektronika
RZhElektrotekh	-	Referativnyy zhurnal. Elektrotehnika i energetika
RZhF	-	Referativnyy zhurnal. Fizika
RZhFoto	-	Referativnyy zhurnal. Fotokinotekhnika
RZhGeod	-	Referativnyy zhurnal. Geodeziya i aeros"yemka
RZhGeofiz	-	Referativnyy zhurnal. Geofizika
RZhKh	-	Referativnyy zhurnal. Khimiya
RZhMekh	-	Referativnyy zhurnal. Mekhanika
RZhMetal	-	Referativnyy zhurnal. Metallurgiya
RZhRadiot	-	Referativnyy zhurnal. Radiotekhnika
Sbl	-	Sbornik. Vsesoyuznyy simpozium po fizike gazovykh lazerov. 2nd. Novosibirsk, 16-18 June 1975. Moskva, 1975.

- Sb2 - Spektroskopiya i yeye primeneniye v geofizike i khimii. Novosibirsk, Nauka, 1975.
- Sb3 - Elektronika, no. 1, Ryazan'. 1974.
- Sb4 - Opticheskaya i elektroopticheskaya obrabotka informatsii. Moskva, Nauka, 1975.
- Sb5 - Vsesoyuznyy simpozium po rasprostraneniyu lazernogo izlucheniya v atmosfere. 3rd. Tezisy dokladov. Tomsk, 1975.
- Sb6 - Fizika zhidkogo sostoyaniya, no. 3, 1975.
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- Sb8 - Kvantovaya khimiya. Kishinev, Shtiintsa, 1975.
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- Sb18 - Preobrazovatel'naya i elektroizmeritel'naya tekhnika. Kiyev, Naukova dumka, 1975.
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- Sb20 - Vsesoyuznaya konferentsiya po radioastronomii. 8th. Tezisy dokladov. Pushchino, 1975.
- Sb21 - Issledovaniy i primeneniye splavov reniya. Moskva, Nauka, 1975.
- Sb22 - Respublikanskaya konferentsiya molodykh spetsialistov po svetotekhnike i istochnikam sveta. 7th. Tezisy dokladov. Saransk, 1974.
- Sb23 - Aerofizicheskiye issledovaniya, no. 3, 1974.
- TKiT - Tekhnika kino i televideniya
- Tr1 - Moskovskiy energeticheskiy institut. Trudy, no. 231, 1975.
- Tr2 - AN SSSR. Fizicheskiy institut. Trudy, no. 81, 1975.
- Tr3 - Moskovskiy energeticheskiy institut. Trudy, no. 222, 1975.
- Tr4 - Severo-Zapadnyy zaochnyy politekhnicheskiy institut. Trudy, no. 29, 1975.
- Tr5 - Trudy metrologicheskikh institutov SSSR. VNII metrologii, no. 171(231), 1975.
- Tr6 - Yerevanskiy politekhnicheskiy institut. Mezhvuzovskiy sbornik nauchnykh trudov. Stroitel'stvo i arkhitektura, no. 1, 1974.
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- Tr13 - VNII transportnogo stroitel'stva. Trudy, no. 92, 1974.

TVT	-	Teplofizika vysokikh temperatur
UFN	-	Uspekhi fizicheskoy nauk
UFZh	-	Ukrainskiy fizicheskoy zhurnal
VMU	-	Moskovskiy universitet. Vestnik. Seriya fizika, astronomiya
ZhETF	-	Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhETF P	-	Pis'ma v Zhurnal eksperimental'noy i teoreticheskoy fiziki
ZhNiPFiK	-	Zhurnal nauchnoy i prikladnoy fotografii i kinematografii
ZhPMTF	-	Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki
ZhPS	-	Zhurnal prikladnoy spektroskopii
ZhTF	-	Zhurnal tekhnicheskoy fiziki
ZhTF P	-	Pis'ma v Zhurnal tekhnicheskoy fiziki

V. CUMULATIVE AFFILIATIONS LIST

NS. Non-Soviet

0. Affiliation not given
1. Physics Institute im. Lebedev, AN SSSR, Moscow (Fizicheskiy institut im. Lebedeva AN SSSR).
2. Moscow State University (Moskovskiy gosudarstvennyy universitet).
3. Institute of Physics, AN BSSR, Minsk (Institut fiziki, AN BSSR).
4. Leningrad Physical-technical Institute im. Ioffe (Fiziko-tekhnicheskiy institut im. Ioffe).
5. Institute of Physics, AN UkrSSR, Kiev (Institut fiziki, AN UkrSSR).
6. Institute of Semiconductors, AN UkrSSR, Kiev (Institut poluprovodnikov, AN UkrSSR).
7. State Optical Institute im. Vavilov, Leningrad (Gosudarstvennyy opticheskiy institut im. Vavilova).
8. Radiophysics Scientific Research Institute at Gorkiy State University (Gor'kovskiy nauchno-issledovatel'skiy radiofizicheskiy institut pri Gor'kovskom gos. universitete).
9. Institute of Radiophysics and Electronics, Siberian Branch AN SSSR, Novosibirsk (Institut radiofiziki i elektroniki, Sibirskoye otdeleniye AN SSSR).
10. Institute of Semiconductor Physics of the Siberian Branch, AN SSSR, Novosibirsk (Institut fiziki poluprovodnikov, Sib. otdel AN SSSR).
11. Kazan' State University (Kazanskiy gos. universitet).
12. Leningrad State University (Leningradskiy gos. universitet).
13. Institute of Crystallography, AN SSSR, Moscow (Institut kristallografiya, AN SSSR).
14. University of Friendship Among Nations im. Lumumba, Moscow (Universitet druzhby narodov im. Lumumby).
15. Institute of Radio Engineering and Electronics, AN SSSR, Moscow (Institut radiotekhniki i elektroniki, AN SSSR).
16. Moscow Engineering Physics Institute (Moskovskiy inzhenerno-fizicheskiy institut).
17. Institute of Mechanical Problems, AN SSSR, Moscow (Institut problem mekhaniki, AN SSSR).
18. Institute of General and Inorganic Chemistry im. Kurnakov, AN SSSR, Moscow (Institut obshchey i neorganicheskoy khimii im. Kurnakova, AN SSSR).
19. Moscow Power Engineering Institute (Moskovskiy energeticheskiy institut).
20. All Union Scientific Research Institute of Physicotechnical and Electronic Measurements, Moscow (Vsesoyuznyy nauchno-issled. institut fiziko-tekhnicheskikh i elektronnykh izmereniy).
21. Acoustics Institute, AN SSSR, Moscow (Akusticheskiy institut, AN SSSR).
22. Institute of metallurgy im. Baykov, Moscow (Institut metallurgii im. Baykova).
23. Institute of Atomic Energy im. Kurchatov, Moscow (Institut atomnoy energii im. Kurchatova).
24. Moscow Higher Technical College im. Bauman (Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana).
25. Moscow Scientific Research Institute of Instrument Manufacture (Moskovskiy nauchno-issled. institut instrumental'nogo proizvodstva).
26. Central Scientific Research Institute of the Ministry of Defense, Moscow (Tsentral'nyy nauchno-issled. institut Ministerstva oborony).
27. All Union Scientific Research Institute of Textile and Light Machinery, Moscow (VNII tekstil'nogo i legkogo mashinostroyeniya).
28. Leningrad Opticomechanical Society (Leningradskoye optiko-mekhanicheskoye obshchestvo).
29. Leningrad Polytechnic Institute (Leningradskiy politekhnicheskiy institut).
30. Leningrad Institute of Precision Mechanics and Optics (Leningradskiy institut tochnoy mekhaniki i optiki).
31. Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR).

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32. Physics Scientific Research Institute at Leningrad State University (Fizicheskiy NII pri Leningradskom gos. universitete).
33. Institute of Silicate Chemistry im. Grebanshchikov, AN SSSR, Leningrad (Institut khimii silikatov im. Grebanshchikova AN SSSR).
34. Khar'kov State University (Khar'kovskiy gos. universitet).
35. Khar'kov Institute of Radioelectronics (Khar'kovskiy institut radioelektroniki).
36. Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR).
37. Yerevan State University (Yerevanskiy gos. universitet).
38. Kazan' Physicotechnical Institute (Kazanskiy fiziko-tekhnicheskiy institut).
39. Institute of Cybernetics, AN GruzSSR (Institut kibernetiki AN GruzSSR).
40. Tbilisi State University (Tbilisskiy gos. universitet).
41. Rostov-on-Don State University (Rostovskiy-na-Donu gos. universitet).
42. Ural Polytechnic Institute im. Kirov, Sverdlovsk (Ural'skiy politekhnicheskiy institut im. Kirova).
43. Ural State University, Sverdlovsk (Ural'skiy gos. universitet).
44. Institute of Applied Physics, AN MSSR, Kishinev (Institut prikladnoy fiziki AN MSSR).
45. Saratov State University (Saratovskiy gos. universitet).
46. Novosibirsk State University (Novosibirskiy gos. universitet).
47. Siberian Physicotechnical Institute im. Kuznetsov, Tomsk (Sibirskiy fiziko-tekhnicheskiy institut im. Kuznetsova).
48. Tomsk Institute of Radio Engineering and Electronics (Tomskiy institut radiotekhniki i elektroniki).
49. Vilnius State University (Vil'nyusskiy gos. universitet).
50. Institute of Semiconductor Physics, AN LitSSR, Vilnius (Institut fiziki poluprovodnikov, AN LitSSR).
51. Kiev State University (Kiyevskiy gos. universitet).
52. Joint Institute of Nuclear Research, Dubna (Ob'yedinennyy institut yadernykh issledovaniy).
53. Chernovtsy State University (Chernovitskiy gos. universitet).
54. Taganrog Radio Engineering Institute (Taganrozskiy radiotekhnicheskiy institut).
55. Physicotechnical Institute, AN TurkSSR, Ashkhabad (Fiziko-tekhnicheskiy institut AN TurkSSR).
56. Nezhin State University (Nezhinskiy gos. universitet).
57. All Union Machine Construction Institute, Kramatorsk (Vsesoyuznyy mashinostroitel'nyy institut).
58. Kemerova State Pedagogical Institute (Kemerovskiy gos. pedagogicheskiy institut).
59. Institute of Physics Research, AN ArmSSR (Institut fizicheskikh issledovaniy AN ArmSSR).
60. Institute of Physics, AN AzSSR (Institut fiziki AN AzSSR).
61. Institute of Physics and Astronomy, AN EstSSR (Institut fiziki i astronomii AN EstSSR).
62. Institute of Geophysics, AN GruzSSR (Institut geofiziki AN GruzSSR).
63. Institute of Physics, AN LatSSR (Institut fiziki AN LatSSR).
64. Institute of Atmospheric Physics, AN SSSR (Institut fiziki atmosfery AN SSSR).
65. Institute of Problems of Physics, AN SSSR (Institut fizicheskikh problem AN SSSR).
66. Institute of Solid State Physics, AN SSSR (Institut fiziki tverdogo tela AN SSSR).
67. Institute of Physics of Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR).
68. Institute of Space Research, AN SSSR (Institut kosmicheskikh issledovaniy AN SSSR).
69. Institute of Oceanography, AN SSSR (Institut okeanologii AN SSSR).
70. Institute of Organic and Physical Chemistry, AN SSSR (Institut organicheskoy i fizicheskoy khimii AN SSSR).

71. Institute of Applied Mathematics, AN SSSR (Institut prikladnoy matematiki AN SSSR).
72. Institute of Spectroscopy, AN SSSR (Institut spektroskopii AN SSSR).
73. Institute of Theoretical Physics im. Landau, AN SSSR (Institut teoreticheskoy fiziki im. Landau AN SSSR).
74. Institute of High Temperatures, AN SSSR (Institut vysokikh temperatur AN SSSR).
75. Institute of Automation and Electronic Measurements, Siberian Branch AN SSSR (Institut avtomatiki i elektrometrii SOAN).
76. Institute of Hydrodynamics, Siberian Branch AN SSSR (Institut gidrodinamiki SOAN).
77. Institute of Inorganic Chemistry, Siberian Branch AN SSSR (Institut neorganicheskoy khimii SOAN).
78. Institute of Atmospheric Optics, Siberian Branch AN SSSR (Institut optiki atmosfery SOAN).
79. Institute of Nuclear Physics, Siberian Branch AN SSSR (Institut yadernoy fiziki SOAN).
80. Computer Center, Siberian Branch AN SSSR (Vychislitel'nyy tsentr SOAN).
81. Physicomechanical Institute, AN UkrSSR (Fiziko-mekhanicheskiy institut AN UkrSSR).
82. Physicotechnical Institute, AN UkrSSR (Fiziko-tekhnicheskiy institut AN UkrSSR).
83. Institute of Problems in Material Studies, AN UkrSSR (Institut problem materialovedeniya AN UkrSSR).
84. Institute of Radiophysics and Electronics, AN UkrSSR (Institut radiofiziki i elektroniki AN UkrSSR).
85. Institute of Nuclear Physics, AN UzSSR (Institut yadernoy fiziki AN UzSSR).
86. Azerbaydzhan State University (Azerbaydzhanskiy gos. universitet).
87. Belorussian State University (Belorusskiy gos. universitet).
88. Dagestan State University (Dagestanskiy gos. universitet).
89. Donetsk State University (Donetskiy gos. universitet).
90. Electrotechnical Institute of Communications (Elektrotekhnicheskiy institut svyazi).
91. Power Institute im. Krzhizhanovskiy (Energeticheskiy institut im. Krzhizhanovskogo).
92. Physicochemical Institute im. Karpov (Fiziko-khimicheskiy institut im. Karpova).
93. Gor'kiy Physicotechnical Research Institute at Gor'kiy State University (Gor'kovskiy issledovatel'skiy fiziko-tekhnicheskiy institut pri Gor'kovskom gos. universitete).
94. Gor'kiy State University (Gor'kovskiy gos. universitet).
95. State Scientific Research and Planning Institute of the Rare Metals Industry (GIFEDMET, Gos. NI proyektnyy institut redkometallicheckoy promyshlennosti).
96. State Scientific Research Institute of Photochemical Planning (GOSNIKHIMFOTOPROYEKT).
97. Georgian Polytechnical Institute (Gruzinskiy politekhnicheskiy institut).
98. Institute of Nuclear Physics at Moscow State University (Institut yadernoy fiziki pri Moskovskom gos. universitete).
99. Institute of Mechanics and Physics, Saratov (Institut mekhaniki i fiziki).
100. Institute of Oncology im. Petrov (Institut onkologii im. Petrova).
101. Ivanovo State Medical Institute (Ivanovskiy gos. meditsinskiy institut).
102. Ivanovo Chemicotechnological Institute (Ivanovskiy khimiko-tekhnologicheskoy institut).
103. Ivanovo Pedagogical Institute (Ivanovskiy pedagogicheskiy institut).
104. Kaunas Polytechnic Institute (Kaunasskiy politekhnicheskiy institut).
105. Kazan' Civil Engineering Institute (Kazanskiy inzhenernoostroitel'skiy institut).
106. Kiev Polytechnic Institute (Kiyevskiy politekhnicheskiy institut).
107. Khar'kov State Scientific Research Institute of Metrology (Khar'kovskiy gos. NII metrologii).
108. Khar'kov Polytechnic Institute (Khar'kovskiy politekhnicheskiy institut).
109. Latvian State University (Latviyskiy gos. universitet).

110. Leningrad Electrotechnical Institute (Leningradskiy elektrotekhnicheskiy institut).
111. Leningrad Mining Institute (Leningradskiy gornyy institut).
112. Leningrad Institute of Soviet Trade (Leningradskiy institut Sovetskoy trgovli).
113. Leningrad Mechanical Institute (Leningradskiy mekhanicheskiy institut).
114. L'vov State University (L'vovskiy gos. universitet).
115. L'vov Polytechnic Institute (L'vovskiy politekhnicheskiy institut).
116. Moscow Aviation Institute (Moskovskiy aviatsionnyy institut).
117. Moscow Mining Institute (Moskovskiy gornyy institut).
118. Moscow Physicotechnical Institute (Moskovskiy fiziko-tekhnicheskiy institut).
119. Moscow Institute of Electronic Engineering (Moskovskiy institut elektronnoy tekhniki).
120. Moscow Institute of Engineers of Geodesy, Aerial Photography and Cartography (Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii).
121. Moscow Institute of Chemical Machinery (Moskovskiy institut khimicheskogo mashinostroyeniya).
122. Scientific Research Institute of Physicochemistry im. Karpov (NI fiziko-khimicheskiy institut im. Karpova).
123. Novosibirsk Institute of Automation and Electrometallurgy (Novosibirskiy institut avtomatiki i elektrometallurgii).
124. Odessa Scientific Research Institute of Eye Diseases and Tissue Therapy (Odesskiy NII glaznykh bolezney i tkanevoy terapii).
125. Odessa Technological Institute of Refrigeration Industry (Odesskiy tekhnologicheskiy institut kholodil'noy promyshlennosti).
126. Omsk Polytechnic Institute (Omskiy politekhnicheskiy institut).
127. Rostov Civil Engineering Institute (Rostovskiy inzhenerno-stroitel'nyy institut).
128. Ryazan' Radiotechnical Institute (Ryazanskiy radiotekhnicheskiy institut).
129. Siberian State Scientific Research Institute of Metrology (Sibirskiy gos. NII metrologii).
130. Tadjik State University (Tadjikskiy gos. universitet).
131. Tartu State University (Tartuskiy gos. universitet).
132. Tomsk State University (Tomskiy gos. universitet).
133. Central Aerohydrodynamic Institute im. Zhukovskiy (Tsentral'nyy aerogidrodinamicheskiy institut im. Zhukovskogo).
134. Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya).
135. Central Scientific Research Institute of Communications (Tsentral'nyy NII svyazi).
136. Uzhgorod State University (Uzhgorodskiy gos. universitet).
137. Voronezh State University (Voronezhskiy gos. universitet).
138. Voronezh Polytechnic Institute (Voronezhskiy politekhnicheskiy institut).
139. All Union Electrotechnical Institute (Vsesoyuznyy elektrotekhnicheskiy institut).
140. All Union Scientific Research Institute of Physicotechnical and Radiotechnical Measurements (VNII fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy, VNIFTRI).
141. All Union Scientific Research Institute of Opticophysical Measurements (VNII optiko-fizicheskikh izmereniy).
142. All Union Scientific Research Institute for Synthesis of Mineral Ore (VNII sinteza mineral'nogo syr'ya).
143. All Union Scientific Research Institute of Synthetic Rubber (VNII sinteticheskogo kauchuka).
144. All Union Scientific Research Institute of Television and Radio Broadcasting (VNII televideniya i radioveshchaniya).
145. All Union Correspondence Electrotechnical Institute of Communications (Vsesoyuznyy zaochnyy elektrotekhnicheskiy institut svyazi).
146. Yerevan Physics Institute (Yerevanskiy fizicheskiy institut).

147. Moscow Highway Institute (Moskovskiy avtodorozhnyy institut, MADI).
148. Institute of Terrestrial Magnetism, the Ionosphere and Radiowave Propagation, AN SSSR (Institut zemnogo magnetizma, ionosfery i rasprostraneniya radiovoln AN SSSR, IZMIRAN).
149. Leningrad Shipbuilding Institute (Leningradskiy korablestroitel'nyy institut).
150. Dnepropetrovsk State University (Dnepropetrovskiy gos universitet).
151. Kishinev State University (Kishinevskiy gos universitet).
152. Moscow Institute of Steel and Alloys (Moskovskiy institut stali i splavov, MJSI).
153. Kiev Civil Engineering Institute (Kiyevskiy inzhenerno-stroitel'skiy institut, KISI).
154. Marine Hydrophysical Institute, AN UkrSSR (Morskoy gidrofizicheskiy institut AN UkrSSR).
155. North Ossetian State University (Severo-Osetinskiy gos universitet).
156. Mountain Agricultural Institute (Gorskiy sel'skokhozyaystvennyy institut).
157. All Union Scientific Research, Planning and Design Institute of Electric Equipment, Khar'kov (VNI i proyektno-konstruktorskiy institut elektroapparatov).
158. Military Medical Academy, Leningrad (Voyenno-meditsinskaya akademiya).
159. Institute of Thermophysics, Siberian Branch, AN SSSR, Novosibirsk (Institut teplofiziki SOAN).
160. Scientific Research Institute of Hydrometeorological Instrument Manufacture (NII gidrometeorologicheskogo priborostroyeniya).
161. Moscow Institute of Radio Engineering, Electronics and Automation (Moskovskiy institut radiotekhnika, elektroniki i avtomatiki).
162. Moscow State Pedagogical Institute (Moskovskiy gos pedagogicheskiy institut).
163. All Union Scientific Research Institute of Metrology im. Mendeleev (VNII metrologii im Mendeleeva).
164. Special Design Bureau for Analytical Instrument Manufacture, AN SSSR (Spetsial'noye konstruktorskoye byuro analiticheskogo priborostroyeniya AN SSSR).
165. Kazan' Command Engineering College (Kazanskoye vyssheye komandno-inzhenernoye uchilishche).
166. Riga Polytechnic Institute (Rizhskiy politekhnicheskiy institut).
167. Institute of Petrochemical Synthesis im. Topchiyev, AN SSSR, Moscow (Institut neftekhimicheskogo sinteza im Topchiyeva AN SSSR).
168. Institute of Electric Welding im. Paton, AN UkrSSR, Kiev (Institut elektrosvarki im Patona AN UkrSSR).
169. Department of Telecommunications of the All Union State Planning, Surveying and Scientific Research Institute of Power Systems and Electric Power Networks (Otdel dal'nykh peredach Vsesoyuznogo gosudarstvennogo proyektno-izyskatel'skogo i NII energeticheskikh sistem i elektricheskikh setey, Energoset'proyekt).
170. Moscow Machine Tool Institute (Moskovskiy stankoinstrumental'nyy institut).
171. Leningrad Institute for the Advanced Training of Physicians (Leningradskiy institut usovershenstvovaniya vrachey).
172. Main Astronomical Observatory, AN UkrSSR (Glavnaya astronomicheskaya observatoriya AN UkrSSR).
173. Ul'yanovsk Polytechnic Institute (Ul'yanovskiy politekhnicheskiy institut).
174. Scientific Research Institute of Organic Intermediates and Dyestuffs, Moscow (NII organicheskikh poluproduktov i krasiteley).
175. Arctic and Antarctic Scientific Research Institute, Leningrad (Arkticheskiy i antarkticheskiy NII).
176. Moscow Geological Prospecting Institut im. Ordzhonikidze (Moskovskiy geologorazvedochnyy institut im Ordzhonikidze).
177. Riga Institute for Civil Aviation Engineers (Rizhskiy institut inzhenerov grazhdanskoj aviatsii).
178. Moscow Institute of Chemical Technology im. Mendeleev (Moskovskiy khimiko-tekhnicheskiiy institut im Mendeleeva).
179. Moscow Institute of Fine Chemical Technology im. Lomonosov (Moskovskiy institut tonkoy khimicheskoy tekhnologii im Lomonosova).
180. Institute of Heat and Mass Exchange, AN BSSR (Institut teplo- i massoobmena AN BSSR).
181. Institute of Nuclear Research, AN UkrSSR, Kiev (Institut yadernykh issledovaniy AN UkrSSR).

182. Kiev Communications College of Military Engineering (Kiyevskoye vyssheye voyennoye inzhenernoye uchilishche svyazi).
183. Physico-technical Institute, AN BSSR (Fiziko-tekhnicheskiy institut AN BSSR).
184. Institute of Geochemistry and Analytical Chemistry im. Vernadskiy, AN SSSR, Moscow (Institut geokhimii i analiticheskoy khimii im Vernadskogo AN SSSR).
185. Gor'kiy Polytechnic Institute (Gor'kovskiy politekhnicheskiy institut).
186. Kishinev Pedagogical Institute (Kishinevskiy pedagogicheskiy institut).
187. Institute of Epidemiology and Microbiology im. Carneleya, AMN SSSR, Moscow (Institut epidemiologii i mikrobiologii im Carnelei AMN SSSR).
188. All Union Scientific Research Institute of Single Crystals, Khar'kov (VNI monokristallov).
189. Novocherkassk Polytechnic Institute (Novocherkasskiy politekhnicheskiy institut).
190. Central Scientific Research Institute of the Maritime Fleet (Tsentral'nyy NII morskogo flota).
191. Karaganda Polytechnic Institute (Karagandinskiy politekhnicheskiy institut).
192. Belorussian Technological Institute (Belorusskiy tekhnologicheskiy institut).
193. Institute of Theoretical and Applied Mechanics, Siberian Branch, AN SSSR, Novosibirsk (Institut teoreticheskoy i prikladnoy mekhaniki SOAN).
194. VIOGEM
195. Northwest Correspondence Polytechnic Institute (Severo-Zapadnyy zaochnyy politekhnicheskiy institut).
196. Institute of Organic Chemistry im. Zelinskiy, AN SSSR (Institut organicheskoy khimii im Zelinskogo AN SSSR).
197. Tomsk Polytechnic Institute (Tomskiy politekhnicheskiy institut).
198. Institute of Mineral Fuels, Moscow (Institut goryuchikh iskopayemykh).
199. Moscow Institute of Electronic Machinery (Moskovskiy institut elektronnoy mashinostroyeniya).
200. Khar'kov Aviation Institute (Khar'kovskiy aviatsionnyy institut).
201. Institute for Problems of Information Transmission, AN SSSR, Moscow (Institut problem peredachi informatsii AN SSSR).
202. Institute of Electronics, AN UzSSR, Tashkent (Institut elektroniki AN UzSSR).
203. Institute of General and Inorganic Chemistry, AN ArmSSR, Yerevan (Institut obshchey i neorganicheskoy khimii AN ArmSSR).
204. Institute of General Genetics, AN SSSR, Moscow (Institut obshchey genetiki AN SSSR).
205. Moscow X-ray Radiological Scientific Research Institute (Moskovskiy NI rentgeno-radiologicheskiy institut).
206. Institute of Geology and Geophysics, Siberian Branch, AN SSSR, Novosibirsk (Institut geologii i geofiziki SOAN).
207. Main Geophysical Observatory (Glavnaya geofizicheskaya observatoriya).
208. Tula Polytechnic Institute (Tul'skiy politekhnicheskiy institut).
209. Moscow Institute of Precision Mechanics and Computer Technology (Moskovskiy institut tochnoy mekhaniki i vychislitel'noy tekhniki).
210. Institute of Physics, Siberian Branch, AN SSSR (Institut fiziki SOAN).
211. Kalinin Polytechnic Institute (Kalininskiy politekhnicheskiy institut).
212. Kuban' State University (Kubanskiy gos universitet).
213. Leningrad Technological Institute (Leningradskiy tekhnologicheskiy institut).
214. Kazan' Pedagogical Institute (Kazanskiy pedagogicheskiy institut).
215. Physico-technical Institute, AN TadzhSSR (Fiziko-tekhnicheskiy institut AN TadzhSSR).
216. Kazan' Aviation Institute (Kazanskiy aviatsionnyy institut).
217. Poltava Civil Engineering Institute (Poltavskiy inzhenerno-stroitel'nyy institut).
218. Second Moscow State Medical Institute im. Pirogov (Vtoroy Moskovskiy meditsinskiy institut im Pirogova).

219. Belorussian Polytechnic Institute, Minsk (Belorusskiy politekhnicheskiy institut).
220. Institute of Experimental Meteorology (Institut eksperimental'noy meteorologii).
221. All Union Scientific Research Institute of Hydraulic Engineering (VNII gidrotekhniki).
222. Institute of Surgery im. Vishnevskiy, AMN SSSR (Institut khirurgii im Vishnevskogo AMN SSSR).
223. Central Institute for the Advanced Training of Physicians (Tsentral'nyy institut usovershenstvovaniya vrachey).
224. Yerevan Polytechnic Institute (Yerevanskiy politekhnicheskiy institut).
225. Institute for Problems of Oncology, AN UkrSSR (Institut problem onkologii AN UkrSSR).
226. Leningrad Branch of the Mathematical Institute, AN SSSR (Leningradskoye otdeleniye Matematicheskogo instituta AN SSSR).
227. Tashkent State University (Tashkentskiy gos universitet).
228. Institute of Theoretical Physics, AN UkrSSR (Institut teoreticheskoy fiziki AN UkrSSR).
229. Moscow Aviation Technological Institute (Moskovskiy aviatsionnyy tekhnologicheskiy institut).
230. Novosibirsk Institute for Engineers of Geodesy, Aerial Surveying and Cartography (Novosibirskiy institut inzhenerov geodezii, aerofotos'yemki i kartografii).
231. Scientific Research Institute of Motion Pictures and Photography (NI kinofotoinstitut, NIKFI).
232. State Scientific Research Institute of Glass (Gosudarstvennyy NII stekla).
233. Ivanovo-Frankov Pedagogical Institute (Ivanovo-Frankovskiy pedagogicheskiy institut).
234. Scientific Research Institute of Civil Aviation (NIU grazhdanskoy aviatsii).
235. Tashkent State Pedagogical Institute (Tashkentskiy gos pedagogicheskiy institut).
236. All Union Scientific Research Institute of Mining Geomechanics and Surveying (VNII gornoy geomekhaniki i marksheyderskogo dela).
237. Department of the Physics of Nondestructive Control, AN BSSR (Otdel fiziki nerazrushayushchego kontrolya AN BSSR).
238. Institute of High Pressure Physics, AN SSSR (Institut fiziki vysokikh davleniy AN SSSR).
239. All Union State Planning, Surveying and Scientific Research Institute of Power Systems and Electric Power Networks (Vsesoyuznyy gosudarstvennyy proyektno-izyskatel'skiy i NII energeticheskikh sistem i elektricheskikh setey, ENERGOSET'PROYEKT).
240. Odessa State University (Odesskiy gos universitet).
241. Sverdlovsk State Pedagogical Institute (Sverdlovskiy gos pedagogicheskiy institut).
242. Kazakh State University, Alma Ata (Kazakhskiy gos universitet).
243. Radio Engineering Institute, AN SSSR (Radiotekhnicheskiy institut AN SSSR).
244. Moscow Scientific Research Institute of Television (Moskovskiy NI televizionnyy institut).
245. Novosibirsk State Pedagogical Institute (Novosibirskiy gos pedagogicheskiy institut).
246. Main Astronomical Laboratory, AN SSSR (Glavnaya astronomicheskaya laboratoriya AN SSSR).
247. Scientific Research Institute of Electrophysical Equipment im. Yefremov, Leningrad (NII elektrofizicheskoy apparatury im Yefremova).
248. Institute of Mechanics at Moscow State University (Institut mekhaniki pri Moskovskom gos universitete).
249. Omsk Agricultural Institute (Omskiy sel'skokhozyaystvennyy institut).
250. Sverdlovsk Mining Institute (Sverdlovskiy gornyy institut).
251. Tomsk Institute of Automatic Control Systems and Radioelectronics (Tomskiy institut avtomatizirovannykh sistem upravleniya i radioelektroniki).
252. Leningrad Institute of Nuclear Physics, AN SSSR (Leningradskiy institut yadernoy fiziki AN SSSR).
253. Kirghiz State University (Kirgizskiy gos universitet).
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VL AUTHOR INDEX

A

ABAKUMOV, B. M. 93
 ABAKUMOV, G. A. 104
 ABDULLAYEV, G. V. 64
 ABLEKOV, V. K. 38
 ABRAMOCHKIN, A. I. 64
 ABRAMOV, A. K. 77
 ABROSIMOV, G. V. 26, 28
 ABROSOVA, S. N. 64
 ADAMOWICZ, T. 103
 ADONTS, G. G. 50
 ADRIANOVA, I. I. 53
 AFANAS'YEV, A. A. 55
 AFANAS'YEV, YU. V. 120
 AFROSIMOV, V. V. 120
 AGRANOVICH, V. M. 118
 AKHMADULIN, F. A. 77
 AKHMANOV, S. A. 13, 16, 47, 53
 AKHMEDIYEV, N. N. 47, 61
 AKRTAVA, O. S. 26
 AKOPOV, R. V. 97
 AKOPYAN, A. A. 42
 AKSENOV, V. P. 64
 AKSENOV, YE. T. 54
 AKULIN, V. M. 98
 AKULOV, G. P. 104
 AL'SHITS, YE. I. 10
 ALAYEV, V. YA. 45
 ALEKSANDROV, I. S. 26
 ALEKSANDROVSKIY, A. L. 45
 ALEKSANYAN, A. G. 6
 ALEKSANYAN, AL. G. 6
 ALEKSEYEV, A. V. 64
 ALEKSEYEV, B. V. 21
 ALEKSEYEV, I. M. 65
 ALEKSEYEV, P. A. 118
 ALEJNIKOV, V. S. 26
 ALFYOROV, ZH. I. 1, 5, 42
 ALIMPIYEV, S. S. 98
 ALLAKHVERDYAN, R. G. 6
 ALLENOV, M. I. 65
 ALMAYEV, R. KH. 65
 AMBARTSUMYAN, R. V. 4, 98
 AMBROSIMOV, A. K. 87
 AMUS'YA, M. YA. 61
 ANAN'YEV, YU. A. 38
 ANDREICHEV, V. A. 1
 ANDREYEV, A. V. 60
 ANDREYEV, B. A. 65
 ANDREYEV, S. I. 17
 ANDREYEV, V. G. 116
 ANDREYEV, V. M. 5
 ANDREYEV, YU. M. 65
 ANDREYEV, YU. V. 88
 ANDREYEVA, L. I. 42
 ANDREYEVA, O. V. 97
 ANIKANOV, G. A. 125
 ANIKIN, A. A. 93
 ANIKIN, V. I. 88
 ANISIMOV, S. I. 113, 120
 ANTIPOV, A. B. 65
 ANTIPOV, B. A. 13
 ANTONEVICH, G. N. 9
 ANTONOV, YE. N. 10
 ANTOSHIN, M. K. 4
 ANTROPOV, YE. T. 124
 ANZIN, V. B. 104
 APANASEVICH, P. A. 55, 61
 APOLLONOV, V. V. 42, 124
 APPELT, G. 17
 ARAKE'YAN, S. M. 13
 ARAPOVA, E. YA. 105
 ARBUZOV, V. A. 92
 AREF'YEV, V. N. 65
 ARESHEV, I. P. 5
 ARIFOV, U. A. 113
 ARISTOV, V. V. 93
 ARKHIPOV, S. V. 40
 ARMAND, S. A. 66
 ARNAUTOV, G. P. 105
 ARSEN'YEV, P. A. 3
 ARSENT'YEV, I. N. 5
 ARSHINOV, YU. F. 66
 ARTYUKH, YU. N. 88

ARUSHANOV, E. K. 44
 ARUTYUNYAN, E. A. 47
 ARZUMANOV, V. N. 2
 ARZUOV, M. I. 114
 ASKAR'YAN, G. A. 99
 ASLANOV, P. V. 110
 ASNIS, L. N. 53
 ASTAFUROV, V. G. 66
 ATAKHODZHAYEV, A. K. 53
 ATANASSOV, P. A. 17
 ATUTOV, S. N. 105
 AVDEYENKO, N. S. 105
 AVERBAKH, V. S. 50, 53
 AVTONOMOV, V. P. 124
 AYO, L. G. 53

B

BABAYEV, A. A. 26
 BABENKO, V. A. 10, 66
 BABEYKOV, YU. A. 26
 BABICH, V. M. 21
 BABUSHKIN, V. V. 66
 BAGAYEV, S. N. 14
 BAGDASAROV, KH. S. 2, 58
 BAGRATASHVILI, V. N. 17
 BAKHSHIYEV, N. G. 9, 11, 12, 13
 BAKLANOV, YE. V. 33, 45, 51, 87
 BAKUT, P. A. 93
 BALAKIN, V. A. 33
 BALASHOV, A. A. 102
 BALIN, YU. S. 67
 BALTRAMEYUNAS, R. 44, 59
 BALTENKOV, A. S. 61
 BANAKH, V. A. 4, 67
 BANKOVSKIY, A. S. 124
 BANTSEKOV, S. V. 118
 BARACHEVSKIY, V. A. 102
 BARANOV, V. YU. 17
 BARANTSOV, V. I. 105
 BARBANEL', I. S. 93
 BARCHUKOV, A. I. 42, 114, 124
 BARILL, G. A. 105
 BARKAN, M. YA. 40
 BASAYEV, A. B. 14
 BASHKIN, A. S. 17, 38
 BASIYEV, A. G. 28
 BASIYEV, T. T. 3
 BASKAKOV, O. I. 105
 BASOV, N. G. 18, 22, 24, 38, 60, 99, 120, 124

BASOV, YU. G. 40, 41
 BATISHCHE, S. A. 10
 BATYAYEV, I. M. 58
 BAYAZITOV, R. M. 118
 BAYKOVA, N. D. 93
 BAYRASHIN, G. S. 70
 BAZAROV, YE. N. 18
 BAZHENOV, M. YU. 96
 BEBCHUK, A. S. 42
 BEKHTIN, YU. I. 66, 67
 BEL'KOVA, N. L. 58
 BEL'TS, V. A. 68
 BELEN'KIY, M. S. 67
 BELENOV, E. M. 99
 BELIK, V. P. 120
 BELOKON', M. V. 11
 BELOKON', V. A. 120
 BELONUCHKIN, V. YE. 102
 BELOTSEKOVETS, A. V. 36
 BELOUSOVA, I. M. 17, 37
 BELOV, A. V. 89
 BELOV, V. F. 68
 BELOV, V. V. 68
 BELYAKOVICH, A. I. 86
 BELYAYEV, V. P. 68
 BELYAYEV, V. S. 38
 BELYY, V. N. 56
 BENDA, YA. I. 44
 BENDITSKIY, A. A. 42
 BERDICHENKO, YE. P. 70
 BEREGULIN, YE. V. 68
 BERESNEV, V. A. 68
 BEREZHNOY, A. A. 55
 BEREZHNYI, V. L. 120

BERGER, N.K. 102
 BERKOVSKIY, B.M. 99
 BESSMEL'TSEV, V.P. 102, 105, 106
 BETEROV, I.M. 48, 51
 BETIN, A.A. 51
 BETKHER, R.E. 68, 76
 BIENERT, K.E. 3
 BIGUN, G.I. 95
 BILAK, V.I. 1
 BIRGER, YE.M. 112
 BIRYUKOV, A.S. 29, 34, 124
 BISYARIN, V.P. 69
 BISYARINA, I.P. 69
 BLETSKAN, D.I. 93
 BLOKHIN, A.S. 93
 BOBASHEV, S.V. 120
 BOBRIK, V.I. 14
 BOBROV, A.V. 106
 BOBROV, B.D. 37
 BOCHAROV, V.V. 64
 BOGATKIN, V.I. 6
 BOGATOV, A.P. 6
 BOGDANKEVICH, O.V. 5, 39, 61, 125
 BOGDANOVA, M.V. 59
 BOGOMOLOV, A.S. 106
 BOGOMOLOV, K.S. 93
 BOGOMOLOVA, G.A. 2, 3
 BOGOSLOVSKIY, G.S. 106
 BOKHAN, P.A. 26
 BOKUT', B.V. 56
 BOLDYREV, S.A. 41
 BOLGOV, S.S. 117
 BOLOT'KO, L.M. 57
 BOLOTSKIY, L.T. 105
 BONCH-BRUYEVICH, A.M. 11, 117
 BONCHEV, T. 60
 BONDARENKO, N.G. 69
 BOR, ZH. 24
 BORISEVICH, N.A. 57, 59
 BORISOV, N.A. 5, 39
 BORISOV, V.M. 17
 BORISOVA, M.S. 14
 BORONOV, V.V. 67, 69, 72
 BOROV, A.G. 69, 70
 BORNYAK, L.A. 113
 BORZENKO, B.A. 24
 BOYARSKIY, K.K. 26
 BOYKO, B.B. 1, 56, 87
 BOZHKO, A.I. 53
 BRASHEVAN, YU.V. 125
 BREDIKHIN, V.I. 106
 BRITAN, A.B. 29
 BRITOV, A.D. 6
 BRODIN, M.S. 5
 BRODOVICH, N.A. 53
 BRONSHTEYN, G.S. 89
 BRUNIN, A.N. 22
 BRUNNER, W. 61
 BRUNOV, V.V. 43
 BRUSIN, I.YA. 94
 BRYUKNER, F. 5
 BRYUNETKIN, B.A. 39
 BUBNOV, M.M. 89
 BUCHENKOV, V.A. 39
 BUDAGYAN, I.F. 89
 BUGARINOVIC, DJ. 106
 BUGAYEV, A.A. 94
 BUGAYEV, S.P. 18
 BUKATYY, V.I. 70
 BUKHTIAROVA, T.V. 89
 BULYGIN, A.S. 14
 BUNKIN, F.V. 53, 114
 BURAKOV, V.S. 120
 BURDIN, S.G. 22
 BURENIN, A.V. 65
 BUREYEV, V.A. 59
 BURKOV, V.V. 70
 BURLAKOV, V.D. 26
 BURMAKOV, A.P. 106
 BURNASHEV, M.N. 14
 BURNASHOV, V.N. 105, 106
 BURSHEYN, A.I. 31
 BURSHEYN, R.I. 55
 BURTSEV, V.A. 18
 BURUNOV, YE.A. 121

BUSHMAKOVA, O.V. 70
 BUTAYEVA, T.I. 58
 BUTYLKIN, V.S. 51, 56
 BUZHINSKIY, I.M. 116
 BUZHINSKIY, O.L. 26
 BUZINOV, N.M. 48
 BYCHKOV, YU.I. 18, 24, 34
 BYKHOVSKIY, V.K. 94
 BYKOV, A.D. 70
 BYKOV, V.N. 106
 BYKOVA, N.I. 64
 BYKOVSKAYA, L.A. 11
 BYKOVSKIY, YU.A. 4, 45, 87

C

CHAGULOV, V.S. 89
 CHAMOROVSKIY, K.I. 89
 CHAPLIK, A.V. 32
 CHAPOROV, D.P. 70
 CHAPOVSKIY, P.L. 23, 24
 CHAYKIN, A.M. 126
 CHAYKOVSKIY, A.P. 71, 82
 CHEBOTAYEV, V.P. 21, 51, 127
 CHEKALIN, N.V. 4, 93
 CHEKALIN, S.V. 118
 CHEKH, V.M. 41
 CHEKHOVA, T.K. 8
 CHELNOKOV, L.L. 17
 CHEREMESYUK, G.G. 44
 CHERPUR, D.V. 93
 CHEREDNICHENKO, O.B. 48
 CHEREMISKIN, I.V. 9
 CHEREMUKHIN, A.M. 79, 80
 CHERENDA, N.G. 91
 CHEREPANOV, V.N. 85
 CHEREZOV, V.M. 26
 CHERKASOV, A.S. 58
 CHERKASOV, M.R. 70, 71, 72
 CHERKASOV, YE.M. 19
 CHERNIGOVSKIY, V.V. 21
 CHERNIKOV, V.A. 121
 CHERNOV, V.P. 94
 CHERNOV, YE.A. 102
 CHERTKOV, A.A. 89
 CHIBISOV, A.K. 58
 CHIKHLADZE, V.A. 75
 CHIRKIN, A.S. 13
 CHIRKOV, V.A. 123
 CHISTYAKOV, V.A. 66
 CHISTYAKOVA, L.K. 86
 CHUDNOVSKIY, F.A. 94
 CHUDOBA, R. 115
 CHUDOV, V.L. 108, 110
 CHUKHLIB, V.I. 107
 CHUKICHEV, M.V. 3
 CHURAKOV, V.V. 31
 CHURBAKOV, A.I. 104
 CHURILOV, S.S. 118
 CHUYKO, G.P. 44

D

D'YAKOV, A.S. 19
 D'YAKOV, YU.YE. 23, 48, 50
 DANICHKIN, S.A. 65, 66
 DANILEYKO, M.V. 32, 107
 DANILOV, V.V. 57
 DANILYCHEV, V.A. 18, 22, 24, 34
 DANISHEVSKIY, A.M. 5
 DARZNEK, S.A. 39, 61
 DAS'KO, A.D. 9
 DASHUK, P.N. 17
 DAVIDYUK, N.YU. 1
 DAVYDOV, S.V. 11
 DAVYDOV, B.L. 48
 DEDUSHENKO, K.B. 4
 DELONE, N.B. 61, 125
 DEMBOVETSKIY, V.V. 102
 DEMCHENKO, A.M. 112
 DEMIDENKO, Z.A. 5
 DEMIDOV, A.YA. 54
 DEMIN, A.I. 29, 30, 124
 DEMINA, L.B. 71
 DENCHIK, B.N. 73

DENISYUK, YU. N.	125	FEDOSEYEV, L. I.	77
DERBOV, V. L.	57	FEDOT'YEVA, R. V.	71
DERNOVA, I. N.	8	FEDOTOV, G. A.	27
DERYUGIN, L. N.	8, 88	FEDOTOV, S. I.	122
DEVDAIANI, A. Z.	61	FEKESHGAZI, I. V.	125
DEVYATYKH, G. G.	89, 114	FEOFILAKTOVA, T. V.	27
DIANOV, YE. M.	2, 7, 89	FEOFILOV, P. P.	3, 60
DIANOV-KLOKOV, V. I.	65, 71	FERAPONTOV, N. B.	99
DLUGUNOVICH, V. A.	116	FESENKO, L. D.	25
DMITER'KO, R. A.	28	FEYGEL'S, V. I.	88
DMITRENKO, A. I.	64	FILATOV, YU. V.	33
DMITRENKO, K. A.	5	FILIMOV, V. N.	90
DMITRIYEV, V. G.	2, 48	FILIPOVICH, B. L.	90
DNEPROVSKIY, V. N.	114	FILIPPOV, V. L.	71
DNEPROVSKIY, V. S.	5	FILIPPOV, V. M.	62
DOBROVA, S. YA.	107	FILIPPOV, V. P.	114
DOBROVOL'SKIY, A. F.	68	FILONOV, A. G.	34
DOLGIKH, V. A.	22, 24	FINKEL'SHTEYN, YE. I.	107
DOLGINOV, L. M.	6	FISHER, P. S.	51
DOLGOPOLOV, S. G.	43	FISHER, V. I.	74, 113
DOLGOV, N. M.	21	FOKIN, V. K.	35
DOLGOV-SAVEL'YEV, G. G.	24	FOKIN, V. S.	107
DOLZHIKOV, V. S.	4	FOLOMKIN, I. P.	121
DOMAREVA, T. M.	107	FOMIN, V. V.	78
DOMNIN, YU. S.	23	FRADKIN, E. YE.	107
DONIN, V. I.	101	FRIDMAN, G. KH.	95
DOYNIKOV, A. S.	41	FRIDMAN, S. A.	105
DRABKIN, A. G.	89	FRIDRIKHOV, S. A.	35
DRAMPYAN, R. KH.	51	FROMZEL', V. A.	8
DREYZIN, YU. A.	34	FUKS, N. A.	104
DROFA, A. S.	85	FURASHOV, N. I.	77
DROZHZHIN, A. N.	89	FURZIKOV, N. P.	98
DRUZHININ, V. V.	114		
DUBETSKIY, B. YA.	33, 51, 87		
DUBNISHCHEV, YU. N.	107	G	
DUBOVIK, M. V.	36	GACEK, A.	121
DUBOVOY, L. V.	18	GADZHIYEVA, N. A.	64
DUBROVIN, V. F.	89	GAGARIN, A. P.	114
DUBROVSKIY, V. A.	61	GAL'BURT, V. A.	113
DUDAREV, I. A.	57	GAL'PERN, M. G.	42
DUGIN, V. S.	43	GALAKTIONOV, I. I.	19
DUKHANINA, M. I.	103	GALAKTIONOVA, N. M.	2
DUKHOVNIY, A. M.	7	GALICH, G. A.	7
DUMITRICA, A.	45, 46	GALOCHKIN, V. T.	100
DYACHENKO, A. A.	89	GALUS, W.	44
DYATEL, V. P.	116	GALYATUDINOV, M. F.	118
DYATLOV, K. N.	71	GAMALIY, YE. G.	120, 121
DYATLOV, M. K.	8	GANEYEV, A. A.	27
DYATLOV, V. K.	8	GANINA, N. A.	30
DYKHNE, A. M.	34	GANIYEV, F.	53
DYMSHITS, YU. I.	121	GAPONENKO, N. I.	35
DYUBA, N. M.	111	GAPONOV, S. V.	41
DYUBKO, S. F.	25, 105	GAPONOV, V. A.	69
DZHAGAROV, B. M.	101	GARBUZOV, D. Z.	1, 5
DZHIKIYA, V. L.	26	GARIN, F. V.	41
DZHILAVDARI, I. Z.	56, 87	GARIYEV, A. M.	94
DZHULAKYAN, V. M.	81	GAVRILOVA, L. I.	41
DZYAMAN, D. D.	71	GAYDAY, YU. A.	107
DZYUBENKO, M. I.	10	GAYSENOK, V. A.	57
		GAZUKO, I. V.	114
E		GEGUZIN, YA. YE.	118
EBERT, W.	34	GELIKONOV, V. M.	14
EL'TEKOV, V. YU.	90	GENERALOV, N. A.	19
ENGST, P.	25	GENIN, V. N.	71
EYDUS, YA. A.	99	GENINA, N. V.	71
F		GEORGOBIANI, A. N.	5
FABELINSKIY, I. L.	117	GERASIMOV, G. A.	18
FADEYEV, V. V.	104	GERASIMOV, V. A.	26
FADEYEV, V. YA.	74, 77, 82, 108	GERASIMOV, V. B.	59
FANNIBO, A. K.	116, 118	GERASIMOV, V. P.	35
FAVORSKIY, A. P.	29	GERASIMOVA, S. A.	59
FAYNBERG, YA. B.	35	GERBEK, E. E.	84
FAYZULAYEV, V. N.	29	GERSHUN, V. V.	2
FAYZULLOV, F. S.	114	GIBADULLIN, N. S.	34
FEDIN, V. P.	32	GINZBURG, V. M.	94
FEDORENKO, L. L.	117	GIRIN, O. P.	13
FEDOROV, M. V.	51, 56	GITLIN, YE. M.	1
FEDOROV, V. A.	3, 92	GLADCHENKO, L. F.	9
FEDOROV, V. B.	95	GLAZOV, G. N.	66, 68, 72
FEDOROVA, L. V.	66, 74	GLINSKIY, G. F.	45
FEDORTSOV, A. B.	47	GLUCHOWSKI, W.	121
FEDOSEYEV, D. V.	118	GLUSHKOV, M. V.	104
		GNATYUK, L. N.	93
		GODLEVSKIY, A. P.	72, 108
		GOLENKO, G. G.	93

GOLGER, A. L.	100	ISAYEV, A. A.	26, 28, 34, 105
GOLUBEV, G. P.	114	ISAYEV, S. K.	39
GOLUBEV, S. A.	29, 32	ISHCHENKO, V. N.	19, 24, 60
GOLUBEV, YU. M.	62	ISHCHENKO, YE. F.	32, 39
GOLYAYEV, YU. D.	39	ISYANOVA, YE. D.	45
GOMBOYEV, N. TS.	67, 69, 72	ITSKHOKI, I. YA.	48
GONCHAROV, I. G.	4	IVAKIN, YE. V.	94
GONCHUKOV, S. A.	14	IVAKIN, YU. A.	83
GORBACHEV, V. A.	42	IVANENKO, B. P.	74
GORBAN', N. YA.	57	IVANOV, A. G.	114
GORBATENKO, B. B.	94	IVANOV, A. P.	71, 75
GORDIN, M. P.	73, 125, 126	IVANOV, B. A.	89
GORDIYETS, B. F.	13, 100	IVANOV, G. I.	43
GORELOV, V. YU.	19	IVANOV, L. P.	99
GORINA, YU. I.	6	IVANOV, M. F.	120
GOROBETS, A. P.	88	IVANOV, V. M.	71
GRODETSKIY, E. B.	89	IVANOV, V. P.	71, 108
GOROKHOV, YU. A.	98	IVANOV, YE. V.	76, 84
GORSHTeyN, B. A.	41	IVANOV, YU. A.	31
GORYACHEV, B. V.	70, 73	IVANOVA, G. A.	93
GORYAINOV, A. S.	90	IVANOVA, I. A.	60
GOTLIB, G. I.	88	IVANOVA, T. D.	109
GRACHEV, YU. N.	73	IVANTSOV, I. YA.	114
GRASYUK, A. Z.	4, 23	IVLEV, L. S.	75, 82
GRAZHULENE, S. S.	49		
GREKHOV, I. V.	45	J	
GRENISHIN, A. S.	37	JACH, K.	121
GRIB, B. N.	7, 48	JAKOB, G.	104
GRIBNIKOV, Z. S.	42	JEDRZEJCZAK, A.	6
GRIGOR'YEV, V. A.	54		
GRIGOR'YEV, YU. YU.	74	K	
GRIGOR'YEVA, V. I.	58	KABANOV, M. V.	69, 71, 75
GRIMBLATOV, V. M.	74	KAKICHASHVILI, SH. D.	94
GRIN', L. YE.	22	KALACHEV, B. V.	40
GRIN', YU. I.	30	KALCHEV, S. D.	27
GRINIS, M. V.	86	KALNENKO, A. N.	75
GRISHMANOVA, N. I.	38	KALININ, I. I.	2
GRODNENSKIY, I. M.	55, 92	KALININ, V. N.	8
GROKHOL'SKIY, A. L.	108	KALISH, YE. N.	105
GRUYEV, D. I.	62	KALISKI, S.	121, 122
GRUZ, E. A.	93	KALITIN, V. V.	50
GRUZINSKIY, V. V.	9, 11, 12, 15	KALLISTRATOVA, M. A.	74
GRYAZNOV, I. M.	114	KALOSHA, I. I.	57
GRYAZNOV, YU. M.	45	KALOSHIN, G. A.	70
GRYAZNOVA, ZH. YE.	44	KALYUZHNAYA, G. A.	6
GUBIN, V. P.	18	KAMENOV, P.	60
GUDILIN, I. A.	121	KAMINSKIY, A. A.	2, 3, 126
GUDZENKO, L. I.	34, 60	KAMLYUK, S. N.	89
GULBINAS, I. A.	116	KAMRUKOV, A. S.	37, 41
GUMINOV, YE. N.	56	KAN, V. I.	74
GUR'YANOV, A. N.	89	KAPANOV, V. A.	72
GURARI, M. L.	93	KAPLUN, I. V.	94
GUREVICH, V. Z.	55	KAPRALOVA, G. A.	126
GUROV, A. N.	43	KARABUT, E. K.	15, 27
GURVICH, A. S.	74	KARALIS, V. N.	40
GUS'KOV, L. N.	15, 39	KARASK, A. YA.	2, 7
GUS'KOV, S. YU.	122, 126	KARAVAYEV, S. M.	6
GUSEV, V. G.	4	KARELOV, N. V.	24
GUSHCHINA, I. YA.	74	KARLOV, N. V.	17, 18, 19, 22,
GUSOVSKIY, D. D.	89		98, 100
GUTAN, V. B.	5	KARLOV, S. P.	112
GYUNASHYAN, K. S.	91	KARLOVA, YE. K.	18, 100
		KARNYUSHIN, V. N.	19
H		KARPENKO, A. A.	95
HRABOVSKY, M.	95	KARPOV, L. P.	95
I		KARPOV, N. A.	19, 100
IGONIN, G. M.	72	KARTALEVA, S. S.	22
IGOSHIN, V. I.	31, 38	KARTSEVADZE, A. I.	75
IL'IN, S. I.	74	KARYAKIN, A. V.	58
IL'IN, V. YE.	43	KARYAKIN, YE. N.	65
IL'INOVA, T. M.	59	KAS'YANOV, N. D.	103
IL'INSKIY, YU. A.	48, 50, 51, 60	KAS'YANOV, YU. S.	117
IL'YANKOV, A. I.	108	KASEL'SKIY, V. A.	15
IL'YUSHKO, V. G.	28	KASHNIKOV, G. N.	37, 41
ILYASOV, V. V.	91	KASLIN, V. M.	31
ILYUKHINA, Z. I.	5	KATRANOVSKIY, V. A.	126
IM TKHEK-DE	15	KATS, M. L.	15, 103
IONIN, A. A.	18	KATSEV, I. L.	70
IPPOLITOV, I. I.	74	KATULIN, V. A.	38, 42
IRISOV, A. L.	74, 108	KATYURIN, S. V.	74
ISAKOV, V. A.	99	KAUL', B. V.	75, 87
ISAKOV, V. K.	37	KAYDALOV, S. A.	42
		KAYDANOV, A. I.	115
		KAZANSKIY, V. V.	113

KAZANTSEV, YU. N.	89	KOLOMNIKOV, YU. D.	14
KAZARYAN, M. A.	26, 28, 105	KOLOSHNIKOV, V. G.	10
KAZMIROWSKI, A.	41	KOLOSOV, M. A.	66, 69, 74, 76
KAPRALOV, V. P.	14	KOLYCHEV, A. M.	108
KASHKAROV, S. S.	75	KOMAR, V. G.	95
KASHNIKOV, G. N.	41	KOMAROV, V. A.	77
KECHKEMETI, I.	24	KOMISSARUK, V. A.	97
KEPRT, J.	95	KOMPANETS, O. N.	109
KERIMOV, O. M.	22, 24	KON, A. I.	76
KESZTHELYI, C. P.	.01	KONAKOVA, R. V.	42
KEVORKOV, A. M.	2, 58	KONDAKOV, A. A.	18
KHALIMANOVICH, D. M.	59	KONDILENKO, I. I.	7, 48, 107
KHALIMONOV, V. I.	107	KONDRAT'YEV, V. N.	118
KHANDOKHIN, P. A.	14	KONEV, YU. B.	100
KHANOV, V. A.	15, 102, 103	KONNIKOV, S. G.	42
KHAPALYUK, A. P.	87	KONONENKO, V. G.	118
KHARITONOVA, T. N.	83	KONONENKO, V. I.	120
KHARLAMOV, B. M.	11	KONOV, A. S.	89
KHARLASHKIN, O. A.	89	KONOV, V. I.	114
KHASAN, KH. V.	3	KONOVALOV, I. P.	33
KHASSANOV, N. YA.	56	KONSON, A. S.	126
KHAYBULLIN, I. B.	118	KONYAYEV, P. A.	76
KHAYKIN, B. YE.	108	KONYUKHOV, V. K.	29, 30, 34
KHAZANOV, I. V.	81	KOPINETS, I. F.	93
KHENKIN, L. I.	89	KOPTSIK, V. A.	2
KHINRIKUS, KH. V.	43, 68, 74, 76, 84, 86	KOPYTIN, YU. D.	70, 76
KHMEL'NITSKIY, G. S.	82	KORENEVA, L. G.	48
KHMELEVTSOV, S. S.	64, 67, 69, 70, 72, 76, 77, 83, 86	KORMER, S. B.	36
		KORNIYENKO, L. S.	7, 39
KHODKEVICH, D. D.	24	KOROBKIN, V. V.	117
KHODOVOY, V. A.	61	KOROBKOV, V. S.	56
KHOKHLOV, N. P.	114	KOROBOV, I. V.	92
KHOLMYANSKIY, M. Z.	78	KOROBOV, V. YE.	58
KHOMICH, V. YU.	42, 124	KOROCHKIN, L. S.	1
KHRIPCHENKO, I. A.	102	KOROLEV, F. A.	27, 54
KHROMOV, A. V.	103	KOROLEV, YU. D.	34
KHRONOPULO, YU. G.	49, 56	KORONKEVICH, V. P.	15, 105
KHUTKO, M. S.	71	KOROSTINA, O. M.	75, 82
KIKIN, P. YU.	116	KOROTKOV, P. A.	7, 48
KIKNESHI, A. A.	95	KOROVICH, V. YA.	76
KIR'YANOV, V. P.	112	KORT, S. I.	92
KIRILENKO, A. I.	87	KORTSENSHTEYN, N. M.	20
KIRILENKO, I. A.	59	KOSHCHUG, D. G.	5
KIRILLOV, G. A.	36	KOSHELEV, K. N.	118
KIRILLOVA, L. A.	109	KOSHELYAYEVSKIY, N. B.	16
KIRKACH, YE. F.	95	KOSICHKIN, YU. V.	104
KIRKITADZE, D. D.	75	KOSINOV, V. N.	100
KISELEV, V. A.	90, 91	KOSOVSKIY, L. A.	89
KISELEV, V. M.	37	KOSTANENKO, A. L.	44
KISELEVA, K. A.	43	KOSTANYAN, R. B.	47
KISELEVSKIY, L. I.	20	KOSTIN, B. S.	74, 77
KISLITSKAYA, YE. A.	53	KOSTKO, O. K.	77
KLEMENT'YEV, V. M.	43	KOSTROV, N. A.	92
KLEMENTOV, A. D.	41	KOSTYSHIN, M. T.	95
KLIMENKO, A. G.	101	KOSTYUKOVA, YE. P.	117
KLIMENKO, E. A.	101	KOSYNKIN, V. D.	19
KLIMENKO, V. M.	96	KOTLIKOV, YE. N.	26
KLIMKIN, V. F.	122	KOTLYAROV, V. P.	116
KLISHCHENKO, A. P.	57	KOTOV, A. V.	23
KLOCHKOV, V. P.	108	KOTYUK, A. F.	43
KLOSE, E.	61	KOVAL', V. S.	44
KLYAVIN, YU. A.	64	KOVAL'CHUK, B. M.	18
KLYGIN, A. V.	104	KOVAL'CHUK, YU. V.	122
KLYSHKO, D. N.	50	KOVALENKO, V. A.	6
KNYAZEV, A. A.	76	KOVALENKO, V. F.	112
KNYAZEV, B. A.	19	KOVALENKO, V. S.	116
KNYAZEV, I. N.	17, 31	KOVALENKO, YE. S.	54
KOCHARYAN, L. M.	50	KOVALEV, A. A.	21, 117
KOCHEGAROV, S. F.	5	KOVALEV, A. S.	21, 29, 32
KOCHELAP, V. A.	29, 30	KOVALEV, I. D.	123
KOCHEMASOV, G. G.	36	KOVALEV, I. O.	19
KOCHETKOV, V. M.	88	KOVALEV, V. I.	114
KOCHUBEY, S. A.	23	KOVNER, M. A.	57
KOENIG, R.	12, 46	KOVRIGIN, A. I.	48, 50
KOGARKO, S. M.	102	KOVRIGIN, YE. M.	104
KOGDENKO, V. F.	125	KOVSH, I. B.	18
KOKUSHKIN, A. M.	37	KOVTONYUK, N. F.	43
KOLBANOVSKAYA, N. A.	108	KOWALSKI, A.	41
KOLBIN, I. I.	9	KOZEL, S. M.	102
KOLESNIK, YE. S.	90	KOZHENKOV, V. I.	104
KOLEV, I. N.	57	KOZHEVNIKOV, A. V.	4
KOLOGRIVOV, A. A.	122	KOZHEVNIKOV, N. M.	8
KOLOKOLOV, A. A.	62, 118	KOZLOV, B. M.	119
KOLOMEYEV, M. P.	84	KOZLOV, L. F.	108
KOLOMIYSKIY, YU. R.	49	KOZLOV, N. P.	11, 37, 41

KOZLOV, V. D.	71	LABUDA, A. A.	106
KOZLOV, V. S.	77, 108	LABZOVSKIY, L. N.	62
KOZLOVA, N. N.	115, 119	LACUTIN, M. F.	78
KOZLOVSKIY, V. I.	90	LALOV, I. Y.	118
KOZMA, L.	24	LANDMAN, M. I.	23
KOZOROVITSKIY, L. L.	24	LARIONOV, V. R.	5
KOZUBOVSKIY, V. R.	107	LARIONTOSEV, YE. G.	59
KOZYARSKIY, D. YU.	51	LARIN, N. V.	114, 123
KHALATOVA, YE. S.	90	LASKORIN, B. N.	100
KHRONOPULO, YU. G.	51	LATUSH, YE. L.	26, 28, 35
KRASAVINA, YE. M.	4	LAVRENT'YEV, A. V.	118
KRASIL'NIKOV, S. S.	27, 31	LAVRENT'YEV, M. YE.	106
KRASKOVSKIY, N. K.	84	LAVRINOVICH, N. A.	91
KRASNOV, A. YE.	94	LAVROVSKIY, L. A.	1
KRASNOZHENOV, YE. P.	95	LAVROVSKIY, YE. A.	48
KRASOVSKIY, R. R.	88	LAVRUSHIN, B. M.	5, 39
KRAVCHENKO, V. F.	15, 27	LEBEDEV, D. S.	127
KRAVCHENKO, V. I.	7	LEBEDEV, N. YU.	18
KRAVTSOV, N. V.	51, 52	LEBEDEV, O. L.	42
KRAVTSOV, YU. A.	126	LEMMERMAN, G. YU.	42
KRAYNOV, V. P.	61	LENKOVA, G. A.	109
KREKOV, G. M.	68, 77, 87	LEONOV, R. K.	112
KREKOVA, M. M.	77, 87	LEONOV, YU. S.	99
KREPOSTNOV, V. I.	88	LEONTOVICH, A. M.	1
KRINDACH, D. P.	23	LERNER, N. B.	61
KRIVOSHCHEKOV, G. V.	59	LESNIKOV, YE. V.	25
KROCHIK, G. M.	49, 56	LETOKHOV, V. S.	49, 98, 100, 101, 109, 127
KROKHIN, O. N.	99, 120, 122		12, 46
KROTOV, M. F.	98	LEUPOID, D.	107
KRUGLIK, G. S.	32	LEVANDOVSKAYA, N. YE.	120
KRUPITSKIY, E. I.	95	LEVANOV, YE. I.	41
KRUPNOV, A. F.	65, 77	LEVIN, M. B.	45
KRUTETSKIY, I. V.	47	LEVINSHTEYN, M. YE.	2
KRUTIKOV, V. A.	69	LI, L.	77
KRUZHALOV, S. V.	2, 8	LI, S.	92, 115
KRUZHALOV, V. A.	35	LIBENSON, M. N.	20
KRYSANOV, S. I.	26	LKAL'TER, A. A.	19, 23, 24, 25, 31, 60
KRYUKOV, P. G.	49	LISITSYN, V. N.	109
KRYUKOVA, I. V.	4	LISITSYN, V. S.	114
KUCHEROV, V. S.	28	LITOVCHENKO, V. G.	7
KUDRYAVTSEV, YE. M.	29, 30, 124	LITVINENKO, A. YA.	105
KUKHTAREV, N. V.	128	LIZENGEVICH, A. I.	78
KUKIBNYI, YU. A.	29, 30	LOBACHEV, M. I.	103
KUKIN, L. M.	77	LOBANOV, A. N.	22
KUKLEV, YU. I.	20	LOBKO, V. V.	17
KUKUDZHANOV, A. R.	109	LOBKOVA, L. M.	127
KULAGIN, YU. A.	29, 124	LOGGINOV, A. S.	6, 46
KULEVSKIY, L. A.	46	LOGINSKAYA, A. I.	64
KULIKOV, V. V.	93	LOKHMATOV, A. I.	105
KULYBIN, V. M.	109, 113	LOKSHIN, G. R.	102
KULYUK, L. L.	52	LOPASOV, V. P.	72, 78, 86, 108, 113
KUMFYSHA, A. A.	75, 82	LOPATINA, G. G.	118
KUNGURTSEVA, M. I.	82	LOSEV, S. A.	29, 30
KUNISKIY, A. S.	94	LOSEV, V. F.	24
KUNTSEVICH, B. F.	31	LOTKOVA, E. N.	22
KUPCHENKO, L. F.	54	LUGOVOY, V. N.	62
KURATOV, YU. V.	36	LUGOVSKOY, V. B.	113
KURBATOV, L. N.	6	LUK'YANENKO, S. F.	72, 108
KURBATOV, YU. A.	18, 34	LUK'YANETS, YE. A.	42
KURDYUMOV, S. P.	120	LUK'YANOV, G. A.	30
KUROCHKIN, A. P.	94	LUK'YANOV, V. N.	4, 6
KURYATOV, V. N.	32	LUKIN, M. L.	78
KURZENKOV, V. N.	37	LUKIN, V. P.	78
KUSHNIR, V. R.	39	LUKOMSKIY, G. V.	9
KUSHTIN, I. F.	77	LUKOVNIKOV, A. I.	30
KUT'YENKOV, A. A.	7	LUKOVNIKOV, V. I.	103
KUTELEV, A. F.	77	LUPACHEVA, L. A.	115
KUTOVOY, V. D.	25	LUTSENKO, V. I.	90
KUTUKOV, V. B.	77, 78	LUZHAIN, V. G.	89
KUZ'MENKO, A. V.	92	LYAKHOV, G. A.	16
KUZ'MIN, G. P.	17, 18, 19, 100	LYKHMUS, A. E.	111
KUZ'MIN, S. G.	102	LYNDIN, N. M.	90
KUZ'MINOV, YU. S.	90	LYSENKO, V. N.	43
KUZIKOVSKIY, A. V.	78	LYUBIN, A. A.	114
KUZNETSOV, YE. P.	102	LYUBOV, B. YA.	119
KUZNETSOV, YU. V.	109		
KUZNETSOVA, L. I.	46		
KUZNETSOVA, T. I.	98		
KVINIKHIDZE, T. N.	94		
KWASNIEWSKI, D.	41		
		M	
		MACEK, K.	109
		MAGDA, I. I.	35
		MAK, A. A.	2, 7, 8, 39, 55
		MAKARENKO, V. A.	113
		MAKAROV, A. A.	67
		MAKAROV, A. I.	50, 53
L			
L'VOV, V. S.	57		
L'VOV, V. YU.	86		

MAKAROV, A. S.	71	MEL'TSIN, A. L.	46
MAKAROV, G. N.	98	MELAMID, A. YE.	103
MAKAROV, V. N.	29, 30, 40	MELAMUD, G. V.	109
MAKEYEV, V. A.	95	MELISHCHUK, M. V.	10
MAKHLIN, R. YE.	90	MELKOV, G. A.	47
MAKHMUTOV, E. G.	95	MEN'SHIKH, O. F.	95
MAKHVILADZE, T. M.	52	MERKULOV, V. S.	55
MAKIYENKO, E. V.	77, 87	MESYATS, G. A.	18, 34, 35
MAKKAWEYEV, V. I.	89	MIKHNOV, S. A.	1
MAKLAKOV, V. V.	95	MIKHALEVSKIY, V. S.	15, 26, 27, 35
MAKOGON, M. M.	72, 108, 113	MIKHAYLOV, B. S.	115
MAKOGONENKO, A. G.	101	MIKHAYLOV, V. M.	79
MAKOVKIN, A. V.	45	MIKHAYLOV, YE. L.	109
MAKOWSKA, E.	103	MIKHAYLOV, YU. A.	122
MAKSHANTSEV, E. I.	117	MIKHAYLOVA, L. N.	89
MAKSIMOV, A. I.	12	MIKHEYECHEV, V. S.	91
MAKSIMOV, B. N.	37	MIKHEYENKO, A. V.	102
MAKSIMOV, G. A.	114, 123	MIKHNOV, S. A.	62
MAKSIMOV, S. A.	98	MIL'VIDSKIY, M. G.	6
MAKSYUTENKO, S. N.	110	MILANICH, A. I.	40
MAKUSHKIN, YU. S.	70, 72, 79, 85	MILIN'CHUK, YU. I.	4
MAL'TSEV, V. P.	89	MILINKEVICH, A. V.	49, 59
MALASHCHENKO, V. A.	37, 41	MINEYEV, V. N.	114
MALDUTIS, E. K.	116, 119	MINOGIN, V. G.	109
MALEYEV, D. I.	52	MIRKIN, L. I.	114, 117
MALININ, B. G.	39	MIRONENKO, V. R.	10
MALINOVSKIY, V. K.	93	MIRONOV, A. B.	4
MALOCH, J.	46	MIRONOV, V. L.	64, 67, 69, 72, 76, 78, 79, 80, 86
MALOV, A. N.	19		109
MALYAVKIN, L. P.	106	MIRONOV, V. N.	89, 90
MALYGINA, G. F.	69, 72	MIROVITSKIY, D. I.	71, 80
MALYSHEV, G. M.	121	MIRUMYANTS, S. O.	27
MALYSHEV, V. I.	10, 40	MISHAKOV, V. G.	70, 82
MALYUTENKO, V. K.	117	MISHCHENKO, N. I.	98
MALYUTIN, A. A.	103	MISHIN, V. I.	72, 85
MAMEDOV, A. A.	64	MITSEL', A. A.	121
MAMEDOV, SH. S.	13, 64, 100	MITSIK, V. YE.	95
MAMEDOV, T. G.	3	MITYAKOV, V. G.	27
MANAKOV, N. L.	87	MIZERACZYK, J.	42
MANDROSOV, V. I.	95	MIZIN, V. M.	47
MANDZHIKOV, V. F.	102	MKRTCHYAN, M. A.	47
MANENKOV, A. A.	7	MKRTCHYAN, V. S.	14
MANESHIN, N. K.	54	MOGIL'NITSKIY, B. S.	46
MANYKIN, E. A.	62, 87	MOHR, J.	29
MARCHENKO, S. N.	93	MOISEYENKO, N. V.	110
MARCHEVSKIY, F. N.	96, 127	MOKRENKO, P. V.	60
MARDANOV, R. F.	35	MOLCHANOV, A. G.	14
MARGOLIN, A. D.	30	MOLCHANOV, M. I.	101
MARKIN, YE. P.	99	MOLIN, YU. N.	23
MARKOV, V. A.	54	MONASTYREV, S. S.	1
MARKOVA, S. V.	26, 105	MORGUN, YU. F.	113
MARKOVICH, I. E.	119	MORGUNOVA, YE. V.	3, 60, 108
MARKOVSKIY, V. N.	92	MOROZOV, A. M.	114
MARKUS, F. A.	79	MOROZOV, V. V.	3
MARMUR, I. YA.	44	MOROZOVA, L. G.	40
MARONCHUK, I. YE.	112	MOROZOVA, S. G.	52
MARTVEL', F. E.	74	MOROZOVA, YE. A.	12
MARTYNOV, V. A.	47, 57	MORY, S.	58
MARUGIN, A. M.	45, 46	MOSICHEV, V. I.	53
MASALOV, A. V.	40	MOSKALENKO, A. V.	80
MASHENDZHINOV, V. I.	36	MOSKALENKO, N. I.	8
MASKAYEV, YU. A.	2, 45	MOSKALENKO, V. F.	105
MASLENIKOV, S. V.	114	MOSKIYENKO, M. V.	10
MASLENNIKOV, V. N.	54	MOSTOVNIKOV, V. A.	51
MASLOV, V. V.	10	MOVSESYAN, M. YE.	107
MASTEROV, V. S.	31	MOVSEYEV, A. K.	115
MATIYENKO, B. G.	112	MOYSA, M. I.	1
MATKOVA, I.	42	MOZHAROVSKIY, A. M.	102
MATSONASHVILI, B. N.	4	MOZHUKHIN, YE. V.	25
MATVEYETS, YU. A.	49	MRAZ, P.	102
MATVEYEV, I. N.	43	MUKOSEYEV, YU. K.	54
MATVEYEV, O. V.	5	MURAD, A. N.	20
MATVIYENKO, G. G.	67, 85, 86	MURATOV, YE. A.	79, 80
MATYUSHIN, G. A.	42	MURAV'YEV, N. I.	1
MATYUSHKOV, V. YE.	1, 62	MURAVITSKIY, M. A.	49
MAYORCHUK, M. A.	92	MUSIKHIN, L. A.	78
MAYOROV, V. P.	107	MUSTETSOV, N. P.	6
MAZAN'KO, I. P.	14	MUSZYNSKI, A.	96
MAZURENKO, YU. T.	20, 57	MUZIK, J.	94
MEDVEDEV, A. N.	87	MYACHIN, YE. T.	29
MEDVEDEV, V. A.	90	MYSHETSKAYA, YE. YE.	
MEGEL', YU. YE.	78		
MEKHRYAKOVA, N. G.	42		
MEKHTIYEV, T. R.	64		
		N	
		NAATS, I. E.	74, 77, 80, 83, 87

NABOYKIN, YU. V.	12, 13
NADEZHKIN, YU. M.	109
NADTOCHIY, A. A.	91
NAKHUTIN, I. YE.	87
NALIMOV, I. P.	93
NAMIOT, V. A.	99
NAPARTOVICH, A. P.	17, 28, 34
NARKHOVA, G. I.	40
NAIBOV, A. S.	90
NAUMENKOV, P. A.	120
NAUMKIN, N. I.	51, 52
NAUMOVA, I. I.	2, 45
NAYSTETER, S. I.	35
NAZAROV, B. I.	23
NAZAROV, V. L.	90
NEBOL'SIN, M. F.	64
NECHAYEV, S. YU.	52, 80
NEDAVNIY, A. P.	32, 107
NEGODOV, A. G.	90
NEKRASHEVICH, YA. I.	12
NELYUBIN, N. F.	80
NEMCHINOV, I. V.	118, 119
NEMTINOV, V. B.	96
NEPARENT, B. S.	9, 101
NERUSHEV, A. F.	65, 68, 80, 84
NESMELOVA, L. I.	78
NESTEROV, B. A.	114
NESTRIZHENKO, YU. A.	58
NEUSTRUYEV, V. B.	2
NEVEROV, V. G.	121
NGUYEN TKHO VYONG	115
NGUYEN MIN' KHIYEN	117, 119
NIKIFOROV, S. M.	17
NIKITCHENKO, V. M.	10
NIKITIN, N. V.	25
NIKITIN, YE. P.	89
NIKOGOSYAN, D. N.	49
NIKOLAYCHIK, A. V.	89
NIKOLAYENKO, A. N.	32
NIKOLAYEV, G. N.	26
NIKOLAYEV, I. V.	71
NIKOLAYEV, V. P.	68
NIKULIN, N. G.	59
NISHCHEV, K. N.	117
NIZAMETDINOV, M. M.	115
NIZOVITSEV, A. P.	61
NOSACH, V. YU.	42
NOSKOV, YU. V.	66
NOSOV, V. V.	76, 79
NOVIKOV, M. A.	12, 49
NOVOBRANTSEV, I. V.	101
NOVOKHAT'KO, YU. G.	62
NOZDRIN, YU. N.	77
NURMUKHAMETOV, V. K.	34

О

OBUKHOV, L. V.	117
OCHKIN, V. N.	22
ODARICH, V. A.	57
ODINTSOV, A. I.	27
ODISHARIYA, M. A.	75
OGLEZDIN, V. YE.	56
OGURTSOVA, L. A.	12, 13
OKSMAN, YA. A.	43, 44
OLEYNIK, YU. M.	26
ORAYEVSKIY, A. N.	17, 38, 99, 100, 101
ORLANOV, V. I.	108
ORLOV, A. A.	116
ORLOV, L. N.	12
ORLOV, M. S.	58
ORLOV, V. K.	24, 37
ORLOVICH, V. A.	52
ORLOVSKIY, V. M.	18
OSIKOV, V. V.	7
OSIPENKO, F. P.	82
OSIPOV, A. I.	100
OSTAPCHENKO, YE. P.	8, 15
OSTROVSKAYA, G. V.	122
OSTROVSKIY, A. S.	109
OSTROVSKIY, YU. I.	125
OSTROVSKIY, YU. K.	78
OVCHARENKO, O. I.	8, 9
OVCHINNIKOV, A. A.	100
OVCHINNIKOV, V. M.	45, 46, 94

OVSYANNIKOV, V. D.	87
OZOL, A.	128

Р

PAKHALOV, V. B.	13
PAKHOMOV, L. N.	2, 8
PAL'YANOV, P. A.	103
PALTARAK, N. M.	11, 12
PAN'SHIN, I. A.	96, 108
PANASYUK, YE. I.	5
PANCHENKO, M. V.	74, 77
PANCHENKO, V. YA.	100
PANCHENKO, YU. M.	34
PANFILOV, V. N.	101
PANIN, V. V.	40
PANKRATOV, A. V.	101
PANTELEYEV, V. V.	8
PAPUSHA, V. P.	90
PARAMONOV, L. V.	41
PARKHOMENKO, YU. N.	47
PARYGIN, V. N.	54
PASHININ, P. P.	120
PASMANIK, G. A.	51, 81
PATRUSHEV, G. YA.	79, 80
PAUL, H.	61
PAVLENKO, YU. G.	56
PAVLOV, A. M.	114
PAVLOV, V. I.	112
PAVLOV, YE. M.	125
PAVLOVA, L. N.	84
PAVLYUSHCHIK, A. A.	39
PAZDZERSKIY, V. A.	54
PECHENKIN, L. P.	35
PECHENOV, A. N.	90
PEKAR, S. I.	30
PERCHANOK, T. M.	35
PEREGUDOV, G. V.	123
PERLIN, YE. YU.	62
PERSAK, T.	44
PERSHIN, A. A.	75, 81
PERSHIN, S. M.	48, 50
PERSIANTSEV, I. G.	21, 29, 32
PERSONOV, R. I.	10, 11, 58
PERTSEV, A. G.	115
PESTEREV, K. L.	103
PESTOV, E. G.	32
PESTOV, YE. N.	110
PETNIKOVA, V. M.	50
PETRASH, G. G.	26, 28, 31, 34, 105
PETRASHIL, G. A.	14
PETROSYAN, A. G.	2, 58
PETROV, A. K.	101
PETROV, A. L.	42
PETROV, G. D.	25, 110
PETROV, N. S.	56, 87
PETROV, V. D.	93
PETROV, YU. N.	100
PETROVA, I. M.	38
PETROVA, M. A.	60
PETROVA, M. D.	20, 21
PETROVICH, I. P.	94
PETROVSKIY, V. N.	14
PETRU, F.	35, 49
PETRUKHIN, A. I.	115, 119
PETRUN'KIN, V. YU.	2, 8, 54, 112
PETRUSHIN, A. G.	71
PETUKH, M. L.	8
PEVNEV, A. I.	41
PEVTSOV, V. F.	5
PICHUGIN, A. P.	90
PIK, L. I.	89
PIKARNIKOV, V. P.	54
PIKHTIN, A. N.	45
PIKULIK, L. G.	9, 12
PINCHUK, S. D.	68, 84, 86
PIOTROWSKI, J.	44
PIRLIK, V. A.	41
PIS'MENNIY, V. D.	20, 21, 26, 29, 32
PISARENKO, V. V.	22
PISAREVSKIY, YU. V.	54
PISKUNOV, A. K.	19
PISKUNOVA, L. V.	51
PKHALAGOV, YU. A.	75, 81
PLESHANOV, YU. YE.	119

PLOTNIKOV, A. F.	92
PLYATSKO, G. V.	115
PLYUSNIN, I. I.	103
PLYUSNINA, E. N.	51
POBEDONOSTSEVA, N. A.	172
POCHERNYAYEV, I. M.	96
PODANCHUK, D. V.	96
PODASOV, V. V.	78
PODGORNAYA, L. M.	58
PODGORNIYY, A. P.	12, 13
PODKOLZINA, I. G.	3
PODKOLZINA, P. G.	60
PODMOSHENSKIY, I. V.	19
PODOBEDOV, V. B.	106
PODPALYY, YE. A.	96, 108
PODODAYEV, V. A.	86
POGORELOV, R. YE.	91
POGORELYY, O. N.	7
POGORELSKIY, P. P.	93
POGOSYAN, K. P.	75, 81
POKASOV, V. V.	67, 79
POKROVSKAYA, F. S.	12, 13
POKROVSKIY, V. R.	32
POKRYVAYLO, N. A.	110
POLAK, L. S.	31
POLETAYEV, N. L.	5
POLIKARPOV, S. S.	37, 38
POLIVANOV, YU. N.	46
POLIVODA, M. D.	64
POLOTNYAGIN, V. A.	55
POLOVINKO, V. V.	116
POLTORATSKIY, B. F.	81
POLUEKTOV, I. A.	4, 54
POLUSHKIN, V. M.	21
POLYAKOV, S. F.	77
POLYAKOV, YU. A.	104
POLZE, S.	96
PONOMARENKO, A. G.	20
PONOMAREV, YU. N.	52, 65, 76, 80
PONOMAREV, YU. V.	16, 56
POPESCU, N.	45, 46
POPONIN, V. P.	18
POPOV, A. I.	16
POPOV, A. K.	105
POPOV, N. I.	116
POPOV, YU. M.	60, 92
POPOV, YU. V.	55
POPOVA, A. V.	107
POPOVA, T. YE.	28
PORTER, A. I.	115
POSTNIKOVA, T. A.	80
POSUDIN, YU. I.	18
POTAPOV, A. M.	103
POTAPOV, B. P.	74
POTAPOV, S. K.	57
POTEMKIN, A. V.	3
POTYKEVICH, I. V.	44
POVKH, I. L.	110
POYZNER, B. N.	4
POZDNYAKOV, A. YE.	116
POZHIDAYEV, V. N.	74, 76
PRAMATAROVA, L.	42
PRESNOV, V. A.	74
PREYS, G. A.	115
PRIKHACH, A. S.	75
PRILEZHAEV, D. S.	8
PRISHIVALKO, A. P.	81
PRIVALOV, V. YE.	14, 16, 21, 33
PROKHOROV, A. M.	2, 7, 17, 18, 19, 29, 42, 89, 90, 91, 100, 120
PROKHOROV, K. A.	46
PROKHOROVA, I. A.	64
PROKOP'YEV, V. YE.	23, 26
PROKOPCHUK, D. A.	110
PROKOPENKO, V. T.	110
PROSKURYAKOV, K. I.	116
PROTASOV, V. P.	52
PROTASOV, YU. S.	11, 37, 41
PROTSENKO, YE. D.	14, 16, 33
PROVOROV, A. S.	20, 21
PRUSS-ZHUKOVSKIY, S. Y.	54
PRUTSKOV, YE. G.	117
PRZHONSKAYA, O. V.	10
PSHENICHNIKOV, S. M.	43

PSHEZHETSKIY, S. YA.	22
PUGACHEV, V. L.	58
PUGOVKIN, A. V.	54
PUKHAL'SKAYA, G. V.	22
PURETSKIY, A. A.	98
PUSEP, A. YU.	31
PUSHIN, V. M.	55
PUSHKAREV, S. S.	35
PUSTOVALOV, V. K.	82, 127
PUSTOVOYT, V. I.	54
PUTRENKO, O. I.	8
PYATLIN, O. A.	92
PYNDYK, A. M.	106
PYRSIKOVA, P. D.	13

R

RABA, N. A.	114
RABINOVICH, E. M.	103
RADAUTSAN, S. I.	44
RADIONOV, V. F.	65
RAGOZIN, YE. N.	123
RAKHIMOV, A. T.	20, 21, 29, 32
RAKOCEVIC, S.	6
RALLEV, I. N.	109
RANDOSHKIN, V. V.	6
RASILOV, YU. I.	59
RASHKOVICH, L. N.	2
RATS, B.	24
RAUTMAN, S. G.	28
RAYKHMAN, B. A.	117
YAYKHMAN, YA. A.	107
RAYZER, YU. P.	19
RAZDONARIN, G. T.	121
RAZHEV, A. M.	24
RAZUMOV, L. N.	112
RAZUMOVA, T. K.	11
REBANE, L. A.	111
REBROV, A. K.	24
RED'KO, V. P.	91
REKSNIS, YU. I.	116, 119
RESHETIN, YE. F.	39
RESHETNIKOV, V. A.	74
RESHETNYAK, S. A.	52
REZNICHENKO, V. YA.	5
RICHTER, W.	96
RINKEVICHYUS, B. S.	108, 110, 113
RITUS, A. I.	7, 110
RIVLIN, L. A.	60
RIZKIN, A. A.	95
RODIONOV, M. K.	127
RODIONOV, N. YE.	74
ROESLER, K.	46
ROKOTYAN, V. YE.	112
ROMANENKO, P. F.	95
ROMANENKO, V. I.	99
ROMANOV, G. S.	82, 127
ROMANOV, V. P.	75, 82
ROMASHEV, YE. S.	106
RONDAREV, V. S.	110
ROSHCHIN, YE. A.	110
ROVINSKIY, V. L.	110
ROYTENBURG, D. I.	19
ROZANOV, N. N.	88
ROZANOV, V. B.	41, 120, 121, 122
ROZHKOVA, O. V.	96
RUBANOV, A. S.	94
RUBEZHNIYY, YU. G.	27
RUBINOV, A. N.	11, 13, 58
RUBINOV, YU. A.	20
RUBTSOV, V. I.	85
RUDASHEVSKIY, YE. G.	55
RUDENKO, O. V.	53
RUDIK, YE. I.	12
RUKMAN, G. I.	42, 103
RUMYANTSEV, V. D.	5
RUSAKOV, V. V.	7
RUSINOWISZ, T.	121
RUZEK, J.	96
RYABOV, YE. A.	98
RYADOV, V. YA.	77
RYBAKOV, V. A.	119
RYBAKOVA, T. V.	48
RYBALOV, A. M.	18
RYKALIN, N. N.	115

S

S"YEDUGIN, V. V.	128	SHCHEGOLEV, V. V.	46
SACHKOV, K. N.	81	SHCHERBACHENKO, A. M.	112
SAFONOV, V. P.	19	SHCHERBAK, L. D.	58
SAGITOV, S. I.	22, 114	SHCHERBAKOV, I. A.	2, 3, 7
SAGUN, YE. I.	101	SHCHUKA, A. A.	114
SAKALAUSKAS, S. V.	119	SHEBANIN, A. P.	103
SAKERIN, S. M.	75, 81, 82	SHEFTER, E. M.	42
SAL'KOVA, YE. N.	93	SHEKHTMAN, V. SH.	49
SALIMOV, V. M.	23	SHELEPIN, L. A.	13, 29, 34, 52,
SALMANOV, V. M.	48		98, 100
SALTIYEL, S. M.	47, 57, 91	SHELEPO, A. P.	27
SAMARSKIY, A. A.	120	SHELEVOY, K. D.	70
SAMARSKIY, P. A.	25	SHELKOV, G. A.	110
SAMOKHIN, A. A.	116, 119	SHELKOV, N. V.	4, 6
SAMOKHVALOV, I. V.	64, 65, 66, 67,	SHEMETOV, V. V.	88
	75, 82, 87	SHENNAGEL', G.	96
SAMOYLOV, L. N.	43	SHEVCHENKO, S. S.	12
SAMSON, A. M.	49, 59	SHEVCHENKO, V. V.	89
SAPOZHNIKOV', S. V.	65	SHEVCHENKO, YE. G.	6
SAPOZHNIKOVA, V. A.	13	SHEVERA, V. S.	27
SARKISOV, S. E.	2	SHIBANOV, A. N.	10
SARTAKOV, B. G.	23	SHIGORIN, V. D.	49
SARYCHEV, M. YE.	52	SHIKANOV, A. S.	122
SARZYNSKI, A.	121	SHILOV, V. B.	9
SATOV, YU. A.	17	SHIPULO, G. P.	49, 90
SAVEL'YEV, B. A.	70, 73, 74, 77,	SHIRKOV, A. V.	124
	82, 108	SHIROKOV, A. M.	104
SAVEL'YEV, YU. V.	91	SHIROKOV, V. I.	41, 58
SAVIN, V. V.	24	SHISHKOV, P. O.	29
SAVIN, YU. V.	35	SHKADAREVICH, A. P.	36, 39
SAVRANSKIY, V. V.	53	SHMAYENOK, L. A.	120
SAVRUKOV, N. T.	126	SHMELEV, V. M.	30
SAVVA, V. A.	49, 59	SHMERLING, G. V.	101
SAZANOVICH, V. M.	64	SHOTOV, A. P.	4
SEDEL'NIKOV, V. A.	15, 36, 103	SHPAK, M. T.	32, 107
SEDOV, B. M.	7	SHPOL'SKIY, M. R.	122
SELEZNEV, Y. G.	37, 106	SHTAN'KO, L. A.	86
SELEZNEV, V. N.	92	SHTYNGART, L. M.	91
SELIVANENKO, N. YE.	44	SHTYKOV, V. V.	6
SELIVANOV, P. P.	46	SHTYRKOV, YE. I.	718
SELTMANN, G.	104	SHUKHTIN, A. M.	27
SELYAKOV, V. I.	30	SHUL'MAN, Z. P.	110
SEM, M. F.	28, 35	SHUMILIN, V. N.	1
SEMAK, D. G.	95	SHUMYATSKIY, P. S.	23
SEMENOV, A. A.	44	SHUR, M. S.	45
SEMENOV, A. K.	114	SHURMEI', L. B.	100
SEMENOV, A. T.	6	SHVARTS, K.	128
SEMENOV, G. I.	54	SHVARTS, YU. M.	42
SEMENOV, L. P.	65, 80, 84	SHVEYKIN, V. I.	4
SEMENOV, L. S.	71	SHVOM, YE. M.	2
SEMENOV, V. V.	121	SHYULER, Y.	110
SEMENOV, YE. P.	43	SIDORENKO, A. G.	77
WEMENOVSKAYA, G. G.	42	SIDORENKO, V. S.	47
SEMESHKIN, I. V.	55	SIDOROV, A. N.	17
SEMIBALAMUT, V. M.	33	SIDOROV, N. V.	56
SENATOROV, K. YA.	6	SIDOROVICH, V. G.	96
SERDYUK, V. V.	43, 44	SIL'DOS, I. R.	111
SERDYUKOV, A. N.	56	SIL'VESTROVA, I. M.	54
SEREBRENNIKOV, I. YA.	54	SILIN'SH, E. A.	99
SERGEYEV, V. G.	90	SIMONOV, A. P.	104
SERKIN, V. N.	59	SINIT'SA, L. N.	82
SESTAK, B.	46	SINYAVSKIY, E. P.	63, 112
SHAFAROSTOV, A. I.	55	SIZOV, N. I.	65
SHAKHNAZARYAN, A. A.	58	SKACHEK, G. V.	35
SHAKHNAZARYAN, N. V.	50	SKACHKOV, A. N.	101
SHAKHVERDOV, P. A.	20	SKADAROV, V. V.	66
SHALAGIN, A. M.	28	SKASYRSKIY, YA. K.	90
SHALAYEV, YE. A.	2	SKAZKA, V. S.	111
SHAMANAYEV, V. S.	67	SKLIZKOV, G. V.	122
SHANDAROV, S. M.	54	SKOBELEV, I. YU.	36
SHANIN, V. I.	90, 95	SKOROBOGATOV, G. A.	37
SHANSKIY, V. F.	18	SKRELIN, A. L.	82
SHAPIRO, I. YA.	83	SKRIPKIN, A. M.	68, 84, 86
SHARAFUTDINOV, R. G.	24	SKUTOV, D. K.	20
SHARIKHIN, V. F.	44	SKVORTSOV, M. N.	111
SHARKOV, V. F.	28	SLAMENIK, F.	115
SHATALOV, V. A.	105	SLASTENOVA, N. M.	58
SHAVERDYAN, F. M.	108	SLAVNOVA, T. D.	58
SHAVLEV, L. I.	79	SLESAR', O. N.	37
SHAVRUKOV, YU. M.	128	SLESAREV, I. S.	60
SHAYDUROV, V. O.	104	SLIVITSKIY, A. A.	26
SHCHAPIN, S. M.	65	SLOBODYAN, S. M.	70, 82
SHCHEGLOV, V. A.	102	SLOVETSKIY, D. I.	31
		SLUYEV, V. I.	4
		SMIRNOV, V. A.	59, 83, 88

SMIRNOV, V. G.	23	STRELKOV, G. M.	73, 125, 126
SME NOV, V. I.	110, 111	STRIZHEVSKIY, V. L.	96, 127
SMIRNOV, V. L.	45	STRIZHNEV, V. S.	9
SMIRNOV, V. N.	88, 117	STROGANOV, V. I.	48
SMIRNOV, V. S.	9	STROKACH, YU. P.	102
SMIRNOV, YE. A.	21	STROKOVSKIY, G. A.	33
SNAGOSHCHENKO, L. P.	58	STUDENOV, V. I.	12
SNOPKO, V. N.	116	STUPIN, A. B.	110
SNYKOV, V. P.	71, 84	STUPIN, N. P.	100
SOBEL'MAN, I. I.	36	STUS', YU. F.	105
SOBOL', E. N.	119	SUBASHIYEV, V. K.	5
SOBOL', V. P.	41	SUBOTINOV, N. V.	16, 27
SOBOLEV, G. A.	95	SUCHKOV, A. F.	18, 22
SOBOLEV, N. N.	22, 29, 124	SUDAKOV, V. F.	33
SOBOLEV, V. A.	18	SUKACH, G. A.	7
SOBOLEV, V. S.	105	SUKHANOV, V. I.	97
SOBOLEVSKIY, N. M.	121	SUKHANOVA, N. V.	104
SOBOLEVSKIY, V. M.	110	SULAKSHINA, O. N.	83, 85
SOBRA, K.	46	SULYAYEV, V. A.	115, 119
SOCHILIN, G. B.	75	SUMINOV, V. M.	128
SOKHOR, V.	25	SURDUTOVICH, G. I.	21
SOKOLOV, A. V.	26, 69, 73, 125, 126	SUTORSHIN, V. N.	111
SOKOLOV, S. A.	20	SVENTSITSKAYA, N. A.	38
SOKOLOV, V. A.	56	SVERDLOV, B. N.	6
SOKOLOV, V. I.	105	SVICH, V. A.	25
SOKOLOV, V. N.	37	SVIRIDOV, A. N.	35
SOKOLOV, YE. A.	103	SVIRIDOV, P. N.	93
SOKOLOVA, T. V.	7	SVIRKUNOV, P. N.	65
SOKOLOVSKAYA, A. I.	52	SWIERCZYNSKI, R.	121
SOKOVIKOV, V. V.	21	SYCHEV, A. A.	10
SOKURENKO, A. D.	54	SYCHUGOV, V. A.	90, 91
SOLOGUB, V. P.	15, 16, 39		
SOLOKHA, A. F.	59	T	
SOLOMKO, A. A.	47, 107	TAKLAYA, A. A.	83, 84
SOLOMONOV, V. I.	26	TALANOV, V. I.	50, 53, 69
SOI DUKHIN, R. I.	19, 20, 30, 122	TARANUKHIN, V. D.	48, 50, 51
SOLOV'YEV, A. P.	76	TARASENKO, V. F.	24, 25
SOLOV'YEV, M. A.	58	TARASENKO, V. P.	85
SOLOV'YEV, V. S.	21	TARATORKIN, B. S.	111
SOLOV'YEV, V. YE.	46	TARTAKOVSKIY, G. KH.	105
SOLOV'YEVA, K. S.	71	TARTAKOVSKIY, V. A.	83, 84
SOMS, L. N.	36, 39, 55	TATARENKOV, V. M.	16, 23
SONIN, A. S.	55, 92	TATARINTSEV, L. V.	26
SOONURM, T. E.	43	TATARSKIY, V. A.	40
SOPINA, N. P.	43	TATARSKIY, V. I.	83, 126
SOROKA, V. V.	54	TATEVOSYAN, N. TS.	97
SOROKIN, A. R.	19, 23, 25	TAURIN, N. F.	112
SOROKOVIKOV, V. N.	45	TELBIZOV, P. K.	16, 27
SOSKIDA, M. T. I.	27	TELEGIN, G. G.	25
SOSNIN, A. V.	32	TER-MKRTCHYAN, K. A.	91
SOTIN, V. YE.	8, 9	TER-POGOSYAN, M. A.	57
SPERANTOV, V. V.	111, 128	TEREKHIN, D. K.	35
SPIKHAL'SKIY, A. A.	90, 91	TERESHCHENKOV, V. S.	26
SPIRO, A. G.	9	TERENT'YEV, A. P.	111
SPIVAK, G. V.	4	TERENT'YEV, YU. I.	83
SPORNIK, N. M.	97, 113	TERTYSHNIK, A. D.	12
STANEK, Z.	46	TERYAYEV, V. A.	92
STANEVA, T. G.	9, 57	TESTOV, V. G.	30
STANKEVICH, T. F.	96	TEVOSYAN, T. A.	2
STANKEYEV, E. A.	36	TIKHOMIROV, A. A.	64
STARIK, P. M.	6	TIKHOMIROV, S. V.	43
STARINSKIY, V. N.	24, 60	TIKHONOV, A. N.	120
STAROBOGATOV, I. O.	11	TIKHONOV, V. I.	29
STAROSTIN, A. N.	32, 101	TIKHONOV, YE. A.	10
STASEL'KO, D. I.	96	TIKHOSTUP, M. T.	72
STEFANOV, V. I.	21	TIME, N. S.	78
STEJSKAL, A.	50	TIMOFEYEV, V. P.	15
STEL'MAKH, M. F.	1	TIMOFEYEV, YU. P.	105
STEPANOV, A. A.	102	TIMOKHIN, S. A.	105
STEPANOV, A. I.	39	TIMOSHENKO, N. I.	111
STEPANOV, B. I.	94	TISHCHENKO, V. N.	20
STEPANOV, B. M.	42, 55, 90, 92	TITOV, A. N.	16
STEPANOV, K. G.	68, 77	TITOV, G. A.	72
STEPANOV, V. A.	15	TITOV, I. V.	90
STEPANOV, YU. YU.	17	TITOV, V. S.	103
STERIN, KH. YE.	106	TITOV, YE. A.	33, 45, 47
STERLIGOV, V. A.	97	TIZKA, V. P.	99
STOGOV, V. I.	10	TKACH, YU. V.	35
STOKIC, L.	6	TKACHUK, A. M.	3
STOLOV, A. L.	58	TKHORK, YU. A.	42
STONOVA, V. A.	78	TOKAREVA, A. N.	40
STOYLOV, YU. YU.	12	TOLKACHEV, V. A.	57
STRATSKEVICH, L. K.	15	TOLMACHEV, G. N.	26
STREKALOV, V. N.	44	TOLSTAYA, S. B.	42
STREL'TSOV, A. P.	17		

TOLSTOROZHEV, G. B.	59	VERETENNIKOV, V. V.	83
TOMASHOV, V. N.	17	VETCHINKIN, M. N.	42
TOMIN, V. I.	13	VESELOVA, T. V.	58
TRESHCHALOV, A. B.	111	VEYKOV, V. P.	115, 128
TRET'YAKOV, D. N.	42	VIKHALEM, V. E.	84
TRET'YAKOV, G. K.	69	VINETSKIY, V. L.	128
TRIBEL'SKIY, M. I.	119	VINOGIN, YU. P.	42
TROFIMOVA, N. V.	107	VINOGRADOV, A. V.	36
TROFIMOVA, YE. N.	126	VINOGRADOV, G. K.	112
TROITSKIY, I. N.	93	VINOGRADOV, YE. YE.	59
TROITSKIY, YU. V.	40, 124	VINTIZENKO, I. G.	84
TROIKHIN, YU. D.	35	VISHCHAKAS, YU.	97
TROSHIN, B. I.	15, 16, 39	VISHNEVSKIY, A. K.	66
TROSHIN, O. F.	8	VITLINA, R. Z.	32
TRUBACHEYEV, E. A.	22	VITRISHCHAK, I. B.	36
TRUNOV, V. I.	48	VISSHAS, A. F.	28
TRUSOV, K. K.	12	VIYTMAN, I. O.	68, 76
TSENDIN, L. D.	35	VIZEN, F. L.	54
TSIKIN, B. G.	61, 76	VLASOV, D. V.	52, 117
TSUKANOV, YU. M.	8	VODOTYKA, G. S.	10
TSVETKOVA, O. YU.	48	VODOVATOV, I. A.	112
TSVILYUK, G. YE.	41	VOLKOV, A. S.	34
TSVYK, R. SH.	67, 86, 103	VOLKOV, A. YU.	29, 30, 124
TSYRUL'NIKOV, D. A.	97	VOLKOV, I. V.	97
TUCHIN, V. V.	15, 36, 103	VOLKOV, V. F.	104
TUGBAYEV, V. A.	59	VOLKOVITSKIY, O. A.	68, 84
TUKHVATULLIN, F. KH.	53	VOL, YE. D.	12
TUMANOV, O. A.	49	VOLOSEVICH, P. P.	120
TUMAKOV, V. G.	77	VOLOSHCHENKO, A. M.	56
TUNKIN, V. G.	47, 57	VOLOKHATYUK, V. A.	88
TUR, A. N.	110	VOROB'YEV, L. YE.	47
TUROVTSEVA, L. S.	78	VOROB'YEV, M. I.	85
TUZOV, O. L.	72	VOROB'YEV, M. YU.	40
TUZOVA, S. I.	80	VOROB'YEV, V. V.	85, 88, 102, 105, 106
TVOROGOV, S. D.	75, 78	VORON'KO, YU. K.	3
TYAGAY, V. A.	97	VORONTSOV, V. I.	62
TYRYSHKIN, I. S.	78	VOSKOBOYNIKOV, A. M.	54
TYUTEREV, V. G.	79, 83	VOYTOVICH, A. P.	36, 39, 63
U		VOYTSEKHOVSKAYA, O. K.	85
UGLOV, A. A.	20, 115	VOYTSEKHOVSKIY, A. V.	112
ULENIKOV, O. N.	79	VVEDENSKIY, B. S.	6
ULYAKOV, P. I.	116	VYALYY, N. G.	112
UMNOV, A. F.	43	VYLEGZHANIN, D. N.	3
URBANOVICH, A. I.	55	VYSOTSKIY, M. G.	112
URIN, B. M.	18	VYSOTSKIY, V. I.	62
URLIN, V. D.	36	VYZHELEVSKIY, V. P.	8
USATYUK, V. V.	89	W	
USHAKHIN, V. A.	61	'VOLINSKI, W.	41, 103
USHAKOV, N. M.	55	Y	
USIN, V. A.	106	YAKOVENKO, V. A.	9
USPENSKIY, A. B.	119	YAKOVLENKO, S. I.	34, 60
USTINOV, N. D.	93	YAKOVLEV, V. A.	43
UZHEGOV, V. N.	81	YAKOVLEV, YE. B.	115
UZKIY, A. F.	4	YAKOVLEVA, N. S.	62
V		YAKUBOVICH, S. D.	4, 6
VAKHNENKO, I. F.	62	YAKUSHKIN, I. G.	88
VAKHTANOVA, L. P.	93	YALAMOV, YU. I.	77, 78
VALOV, P. M.	48	YANKOVSKIY, A. A.	8
VARGA, S. A.	104	YANUSH, O. V.	58
VARGIN, A. N.	30	YANUSHKEVICH, V. A.	117, 119
VARNAVSKIY, O. P.	1	YANYUK, V. I.	92
VARSHAVSKAYA, I. G.	118	YARASHYUNAS, K.	59, 97
VARYSHNIKOV, V. F.	65	YAROSHENKO, N. G.	14
VASIL'TSOV, V. V.	26	YAROSHENKO, O. I.	12
VASIL'YEV, A. M.	44	YAROSHETS'KIY, I. D.	48
VASIL'YEV, L. A.	24, 26	YAROSLAVSKIY, I. D.	97
VASIL'YEV, V. N.	97	YARTSEV, A. I.	111
VASILENKO, L. S.	14, 21, 111	YARYSHEVA, M. D.	17
VASILENKO, YU. G.	107	YAS'KOV, A. D.	110
VASILEV, YA. T.	5	YEFANOV, V. I.	54
VASILEVSKAYA, A. S.	58, 92	YEFIMOV, V. I.	112
VASILEVSKIY, D. L.	44	YEFIMOV, A. V.	26
VAULIN, P. P.	64, 68, 83	YEFIMOV, V. V.	112
VAVROUCH, D.	115	YEFREMENKO, V. V.	69
VAYNER, YU. G.	106	YEFREMOV, A. V.	86
VAYTKUS, YU.	44, 59, 97	YEGANYAN, M. ZH.	97
VEDENOV, A. A.	17, 28	YEGOROV, O. K.	23
VEDERNIKOV, V. M.	112	YELESIN, V. F.	7
VELETSKAS, D.	44, 59	YELETSKIY, A. V.	32
VELKHOV, YE. P.	32	YELISEYEV, P. G.	6
VENKIN, G. V.	52	YEMETS, A. K.	118

YEPIFANOV, V. I.	116
YEREMINA, I. V.	69
YERSHOV, A. G.	48
YERSHOV, L. S.	37
YESAYAN, YU. V.	97
YESEPKINA, N. A.	54, 112
YESKIN, N. I.	102
YEVDOKIMOVA, V. G.	55
YEVSEYENKO, A. L.	22
YEVTIKHIYEV, N. N.	89
YEZHOV, G. I.	129
YUKAROV, O. S.	32
YUKOV, YE. A.	36
YURGA, N. I.	85
YURKEVICH, B. M.	128
YURKEVICH, V. M.	115
YURSHIN, B. YA.	48
YURYSHEV, N. N.	17, 38
YUSHIN, A. S.	87

Z

ZABIYAKIN, YU. YE.	9
ZADDE, G. O.	67, 70, 85, 86
ZAGURSKIY, V. YA.	88
ZAKHARCHENKO, S. V.	86
ZAKHARCHENKO, V. M.	112
ZAKHARCHENYA, B. P.	94
ZAKHARENKO, YU. G.	14, 16, 21
ZAKHAROV, B. V.	74, 86
ZAKHAROV, S. I.	117
ZAKHAROV, S. M.	104
ZAKHAROV, V. M.	112
ZAKHAROV, V. YE.	57
ZALESKIY, V. YU.	37, 38
ZAPESOCHNYI, I. P.	27
ZAPOROZHCHENKO, V. A.	119
ZARPOV, M. M.	118
ZAROSLOV, D. YU.	17
ZAROSLOVA, O. S.	22
ZASAVITSKIY, I. I.	4
ZASLONKO, I. S.	102
ZAVELISHKO, V. I.	57
ZAVITNEVICH, YU. V.	90
ZAVOROTNYI, S. I.	100
ZAYKOV, V. A.	106
ZAYTSEV, G. F.	2
ZAYTSEV, V. A.	18
ZAYTSEV, YU. I.	14
ZAYTSEVA, S. G.	104
ZBOROVSKIY, A. A.	83
ZEGE, E. P.	70
ZEMLYAKOV, A. A.	86
ZEMLYANSKIY, V. M.	108
ZEMSKOV, K. I.	28
ZEMTSOV, YU. K.	21
ZENCHENKO, V. P.	63, 112
ZEYLIKOVICH, I. S.	97, 113
ZHABOTINSKIY, M. YE.	13, 89
ZHAROV, V. P.	104
ZHDANOV, B. V.	48, 50
ZHDANOVSKIY, V. A.	116
ZHELTOV, G. P.	86
ZHELUDOK, V. V.	120
ZHILKIN, V. A.	113
ZHIRYAKOV, B. M.	116, 118
ZHITNEVA, G. P.	22
ZHIVOTOV, V. K.	98
ZHUKOV, A. F.	67, 86
ZHUKOV, V. S.	28
ZHUKOV, V. V.	28
ZHUKOV, YE. A.	5
ZHURAVLEV, V. I.	70
ZIKEYEVA, N. V.	22
ZIL'BERMAN, G. YE.	54
ZIMAKOV, V. P.	19
ZIMOGOROVA, N. S.	42
ZLENKO, A. A.	91
ZOBOV, YE. A.	17
ZOLIN, V. F.	48
ZOLOTAREV, V. V.	106
ZOLOTOV, A. V.	107
ZON, B. A.	120
ZOTOV, O. V.	80
ZUBAREV, I. C.	4, 23, 64

ZUBAREV, YE. I.	117
ZUBKO, S. A.	134
ZUBOV, V. A.	98, 113
ZUBRILIN, N. G.	38
ZUBRITSKIY, E. V.	57, 69, 72
ZUL'KARNAYEVA, YE. YU.	79
ZUYEV, V. A.	7
ZUYEV, V. S.	12, 38
ZUYEV, V. YE.	85, 86, 87, 113, 129
ZVEREV, M. M.	61
ZVORYKIN, V. D.	41
ZYURYUKIN, YU. A.	55